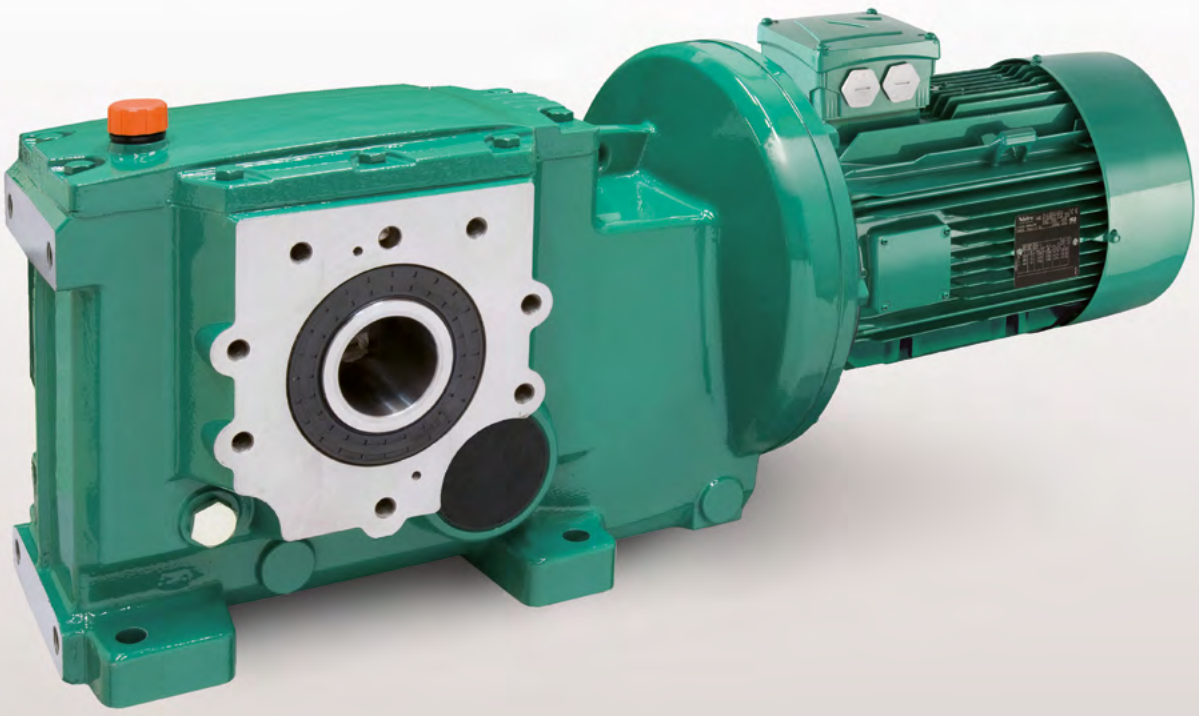


Geared Motors 3000 Range - IMfinity® Orthobloc

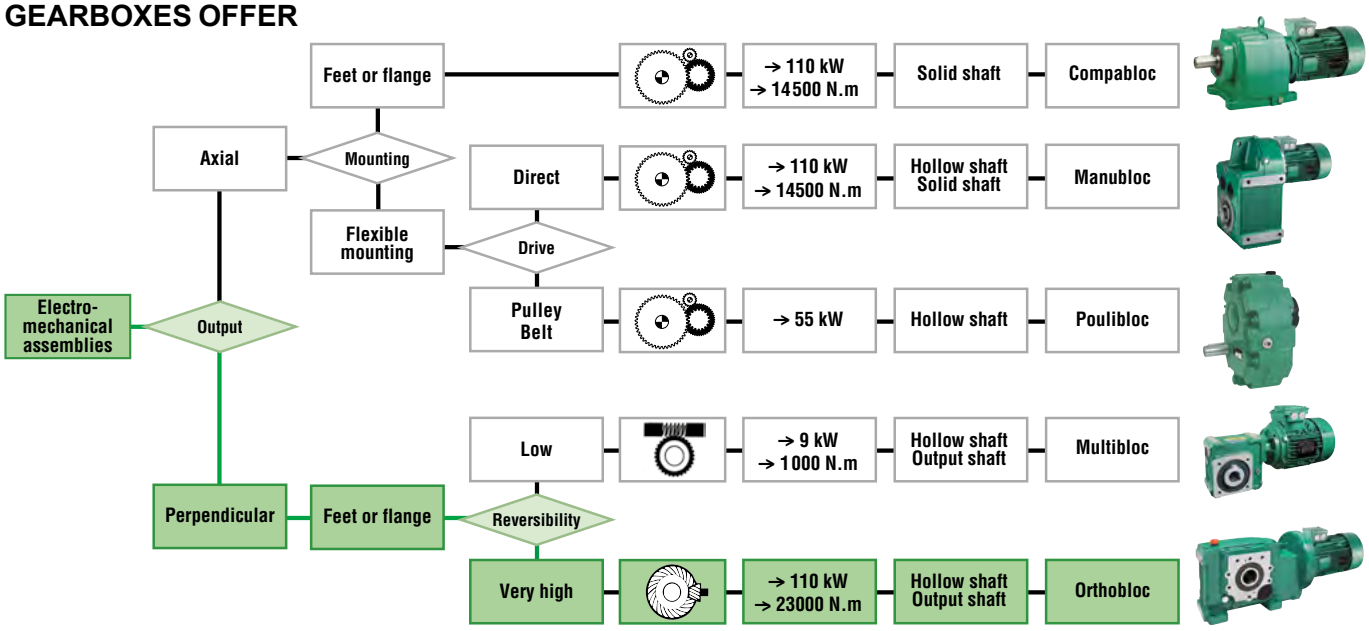
Drive systems, Non-IE and IE3 efficiency
Variable speed and fixed speed
Sizes 31 to 39
Power rating 0.25 to 110 kW

LEROY-SOMER™

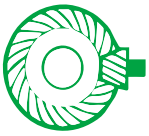
Nidec
All for dreams

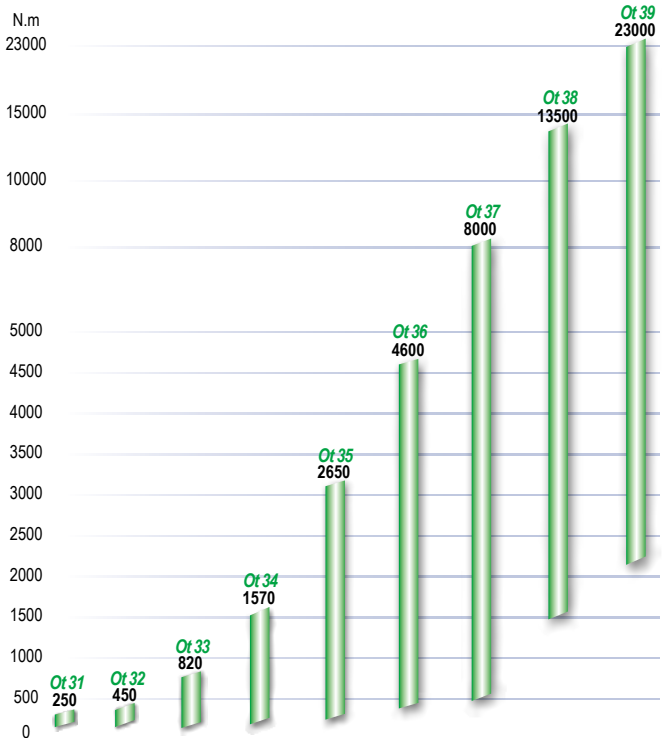
Introduction

GEARBOXES OFFER



ORTHOBLOC RANGE



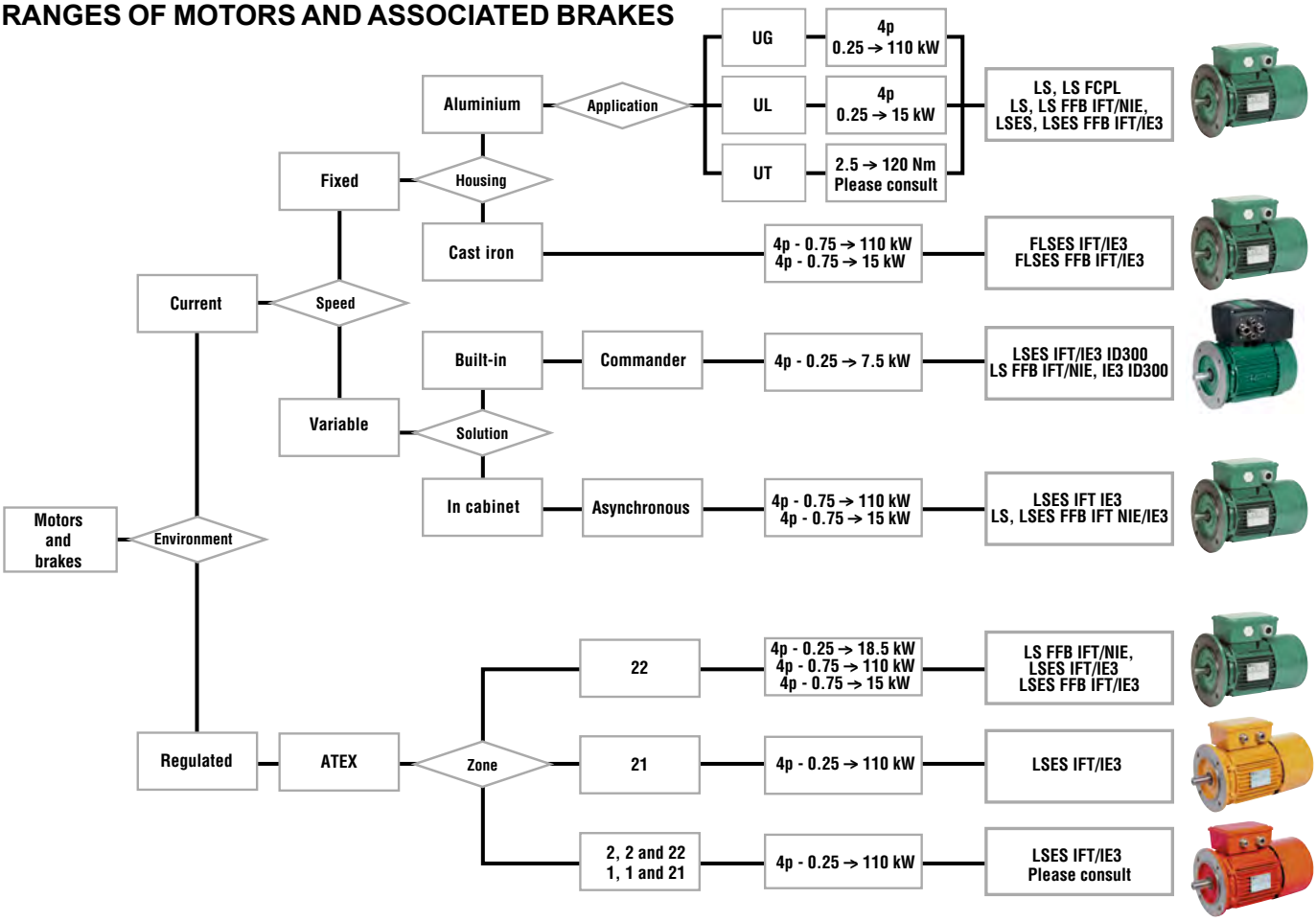


ASSOCIATED DOCUMENTATIONS

Environment					
		Current use		Atex regulated	
Brochure	Catalogue	Commissioning			
		Installation	Maintenance	Ex II3D II2D	Ex II 3G, 3GD, II 2G, 2GD
3969: Compabloc, Orthobloc, Manubloc 3000 range **5679**: Drive systems	**3981**: Orthobloc 3000 IMfinity) **5181**: electromechanical manual	**2557**: storage and commissioning **3996**: Orthobloc 3000 **5088**: lubrication kit **5217**: heat exchanger	**4952**: Orthobloc 3000 maintenance	**3711**: gearboxes for potentially explosive dust atmospheres	**3804**: gearboxes for potentially explosive gas atmospheres

Introduction

RANGES OF MOTORS AND ASSOCIATED BRAKES



RANGES OF ASSOCIATED DRIVES

	Starter	Drive cabinet variable speed			Built-in variable speed		
110 kW	**Digistart**	**Commander C / Unidrive M**		**Powerdrive**			
75 kW →			M700	MD2M			
45 kW →		M400					
→ 22 kW			M600				
→ 11 kW		C300					
7.5 kW				F300	→ 7.5 kW		400V / 3-ph
					→ 4 kW	230V / 3-ph	
2.2 kW →		C200			2.2 kW →		
1.1 kW					1.5 kW	230V / 1-ph	
0.37 kW →					0.37 kW →	**COMMANDER ID300**	
0.25 kW →					0.25 kW →		

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Glossary

AP ..... Input shaft

BA ..... Shaft extension
BS, BD, BR, BT ..... Flange fixing

D ..... Shaft diameter (mm)
Dim ..... Dimensions (mm)

E ..... Output shaft length (mm)

FJ ..... Inertia factor
FLSES ..... IE3 cast iron serial motor
F_R E/2 ..... Permissible radial load at E/2

H ..... Hollow shaft
HA ..... Frame size
h/j ..... hour/day

i ..... Exact reduction of gearbox
Iu ..... Reduction available to the application
IP, IK ..... Protection indexes

J ..... Moment of inertia
$J_{c/m}$ ..... Moment of inertia of the load applied to the drive shaft expressed in $kg.m^2$

J_m ..... Motor moment of inertia

K ..... Overall duty factor
Kp ..... Maximum possible duty factor for the geared motor

kW ..... Kilo Watt

L ..... Left-output solid shaft
LS ..... Aluminium serial motor outside efficiency class or not concerned by the IE
LSES ..... IE2, IE3 aluminium motor series

m ..... load weight (kg)
M_{eq} ..... Equivalent torque
M ..... Permissible torque
M_S ..... Output torque
MU ..... Universal Mounting

N ..... Rotation speed (drum, rollers, motors, etc. in revs per minute)

N_E ..... Input speed
NS ..... Offset feet fixing
N_S ..... Gearbox output speed
N_{uS} ..... Useful output rotation speed

O.p ..... Shaft end borehole
Ot ..... Orthobloc

P ..... Input power (kW)
P_{eq} ..... Equivalent power
P_{uE} ..... Useful input power

R ..... Right-output solid shaft
η ..... Efficiency

S B3/B8/B6/B7/V5/V6 ... Feet fixing followed with the operating position coding
SD ..... Shrink disc

TB ..... Terminal box

U.G. ..... General applications
U.L. ..... Hoisting applications
U.T. ..... Displacement Usage

Z (s/h) ..... Starting frequency of the application (s/h)

General

Orthobloc geared motors with helical bevel gears are used to adapt the speed of the electric motor to that of the driven machine.
Their size is therefore determined by the motor power (P) expressed in kilowatts (kW) and the output rotation speed of the gearbox (N_S) in revolutions per minute (min^{-1}).
The main characteristic of the speed reducers is the rated output torque (Mn_S) expressed in Newton-metres (N.m) :

$$Mn_S = \frac{P \times 9550}{N_S} \times \text{efficiency}$$

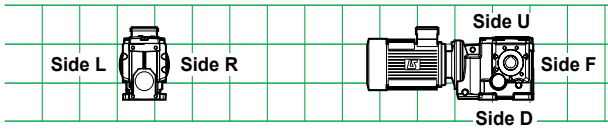
A range of nine sizes: 31, 32, 33, 34, 35, 36, 37, 38, 39.
Rated output torque: 10 N.m to 23 000 Nm.
Power rating: from 0.25 to 110 kW.
Reduction ratios: from 3.71 to 5290.
High efficiency: 94 % to 96 %.
Reversible.
Quiet operation.

Name	Material	Observation
Housing	ENGJL-200 cast iron (31 to 39)	- use of single-component pearlitic ENGJL-200 cast iron (flake graphite: 200 MPa tensile strength) to ensure unit is fully sealed - monobloc with reinforced internal ribbing to absorb vibrations and noise and to increase rigidity - with feet S, SBT or flange BS, BD… BR. They are compact and meet industrial requirements
Gears	Ni Cr Mo steel	- cut by gear hob, they are heat treated and then undergo final machining. The quality and precision of the gear cutting allow maximum torque with minimum noise level
Shaft	Steel	- grinding of the sealing surfaces - hollow with protection cover or cylindrical output with key as per ISO R773, or hollow with shrink disc SD - tolerance of diameters in accordance with NFE 22-051 and ISO R 775 - tapped holes at shaft end in accordance with DIN 332 for mounting connecting equipment
Lip seals	Nitrile	- O-rings between housing and flange - anti-dust lipseals according to DIN 3760 form AS - flat seal under the access cover
Lubrication	Oil	- in accordance with ISO 6743 / 6 - delivered with the quantity of oil corresponding to the operating position, it is fitted with drain, level and breather plugs
Mounting		AP: gearbox with input shaft MI: geared motor with integral motor MU: geared motor with IEC motor, manufactured with universal mounting
Standard motor		- LS 71, 4 poles: three phase multiple voltage 230/400 VY - 400 VΔ - LS and LSES 80 to 315, 4 poles: three phase multiple voltage 230VΔ - 380VY - 400VY - 415VY 50 Hz - 460VY 60 Hz / 380VΔ - 400VΔ - 415VΔ - 690VY 50 Hz - 460VΔ 60 Hz - ventilation cover, fitted on request with a drip cover for operation in vertical position, shaft end facing down - LS, LSES: terminal box made of composite material (80 to 112) aluminium alloy (71 and ≥ 132) equipped with threaded plugs (without cable glands) - IP 55 standard protection
Brake motors		- FFB: failsafe brake induction motor, IP55 (LS 71 to 180, LSES IFT/IE3 80 to 160) - FCPL: failsafe brake induction motor, IP44 (LS 180 to 315)
External finish	Shade RAL 6000 (green)	- C3L system (1 x acrylic polyurethane finish 50µm +/-20%)

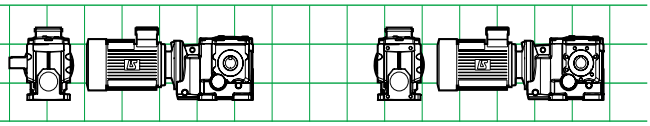
Fixing forms: S, SBT

Standard position: gearbox viewed from side F, motor behind.

1 - Marking of the sides



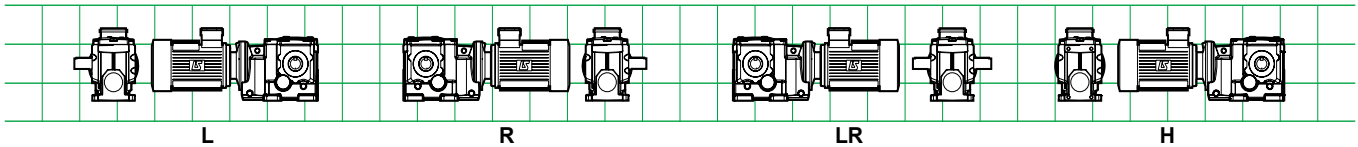
2 - Fixing form



S
Foot

SBT
Foot and face mounted

3 - Output shaft



L
Left-output solid shaft

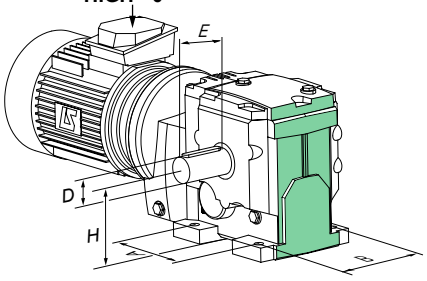
R
Right-output solid shaft

LR
Left and Right-output solid shaft

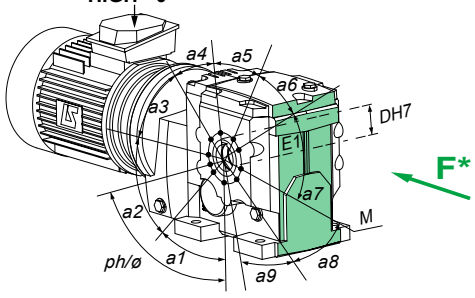
H
Hollow shaft

** The reference is the view of F side, with the motor at the back, with side D on the ground.*

HIGH - 0



HIGH - 0



- Feet form, left solid shaft L, right solid shaft R, hollow shaft H

	S L					S R					S H					
Type	A	B	H	ØD	E	A	B	H	ØD	E	A	B	H	ØDH7	E1	kg
Ot 3933 S	380	370	450	120m6	210	380	370	450	120m6	210	380	370	450	120	450	648
Ot 3833 S	350	270	375	110m6	210	350	270	375	110m6	210	350	270	375	100	350	378
Ot 3733 S	420	270	250	90m6	170	420	270	250	90m6	170	420	270	250	90	340	306
Ot 3633 S	355	240	225	70m6	140	355	240	225	70m6	140	355	240	225	70	304	198
Ot 3533 S	180-230	180	212	60m6	120	180-230	180	212	60m6	120	180-230	180	212	60	244	83
Ot 3433 S	150-190	165	180	50k6	100	150-190	165	180	50k6	100	150-190	165	180	50	226	60
Ot 3333 S	120-150	140	140	40k6	80	120-150	140	140	40k6	80	120-150	140	140	40	173	38
Ot 3233 S	130-150	120	112	30j6	60	130-150	120	112	30j6	60	130-150	120	112	35	151	21
Ot 3232 S	130-150	120	112	30j6	60	130-150	120	112	30j6	60	130-150	120	112	35	151	22
Ot 3132 S	100	100	80	25j6	50	100	100	80	25j6	50	100	100	80	30	130	14.5

- Left tapped form, left solid shaft L, right solid shaft R, hollow shaft H

	Face L															H				
Type	A	B	H	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	n	ph/ø	øM	øDH7	E1	kg
Ot 3933 SBT[1]	380	370	450	20°	34°	36°	36°	36°	36°	36°	36°	36°	34°	-	10	0°-180°/325	340	120	450	565
Ot 3833 SBT[1]	350	270	375	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	11	75°-255°/300	300	100	350	347
Ot 3733 SBT	420	270	250	36°	36°	36°	36°	36°	36°	36°	36°	36°	-	-	9	0°/230	230	90	340	289
Ot 3633 SBT	355	240	225	70°	35°	40°	70°	40°	35°	-	-	-	-	-	6	0°/220	230	70	310	186
Ot 3533 SBT	180-230	180	212	59°	52°	44°	50°	44°	81°	-	-	-	-	-	6	300°/190	190	60	244	80
Ot 3433 SBT	150-190	165	180	65°	46°	44°	50°	44°	81°	-	-	-	-	-	6	300°/152	152	50	226	58
Ot 3333 SBT	120-150	140	140	65°	48°	44°	46°	45°	67°	-	-	-	-	-	6	65°/123	123	40	173	36
Ot 3233 SBT	130-150	120	112	0°	65°	48°	44°	46°	50°	-	-	-	-	-	6	295°/102	100	35	151	20
Ot 3232 SBT	130-150	120	112	0°	65°	48°	44°	46°	50°	-	-	-	-	-	6	295°/102	100	35	151	21.8
Ot 3132 SBT	100	100	80	0°	90°	90°	90°	-	-	-	-	-	-	-	4	340°/95	95	30	130	14

1. Ot 38, Ot 39 SBT, solid shaft: not made

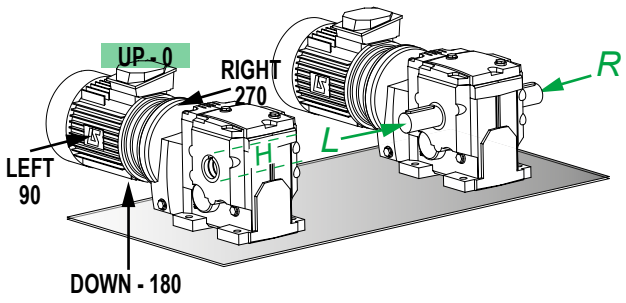
- Right tapped form, left solid shaft L, right solid shaft R, hollow shaft H

	Face R															H				
Type	A	B	H	a1	a2	a3	a4	a5	a6	a7	a8	a9	a10	a11	n	ph/ø	øM	øDH7	E1	kg
Ot 3933 SBT[1]	380	370	450	20°	34°	36°	36°	36°	36°	36°	36°	36°	34°	-	10	0°-180°/325	340	120	450	565
Ot 3833 SBT[1]	350	270	375	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	30°	11	75°-255°/300	300	100	350	347
Ot 3733 SBT	420	270	250	36°	36°	36°	36°	36°	36°	36°	36°	36°	-	-	9	0°/230	230	90	340	289
Ot 3633 SBT	355	240	225	70°	35°	40°	70°	40°	35°	-	-	-	-	-	6	0°/220	230	70	310	186
Ot 3533 SBT	180-230	180	212	0°	59°	52°	44°	50°	44°	-	-	-	-	-	6	300°/190	190	60	244	80
Ot 3433 SBT	150-190	165	180	10°	55°	46°	44°	50°	44°	-	-	-	-	-	6	300°/152	152	50	226	58
Ot 3333 SBT	120-150	140	140	0°	45°	68°	44°	46°	44°	-	-	-	-	-	6	65°/123	123	40	173	36
Ot 3233 SBT	130-150	120	112	0°	65°	48°	44°	46°	50°	-	-	-	-	-	6	295°/102	100	35	151	20
Ot 3232 SBT	130-150	120	112	0°	65°	48°	44°	46°	50°	-	-	-	-	-	6	295°/102	100	35	151	21.8
Ot 3132 SBT	100	100	80	0°	90°	90°	90°	-	-	-	-	-	-	-	4	340°/95	95	30	130	14

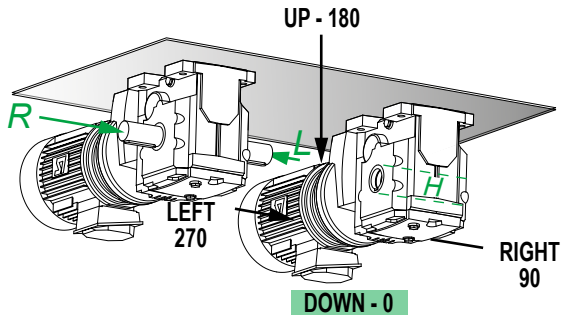
1. Ot 38, Ot 39 SBT, solid shaft: not made

Operating positions: S, SBT

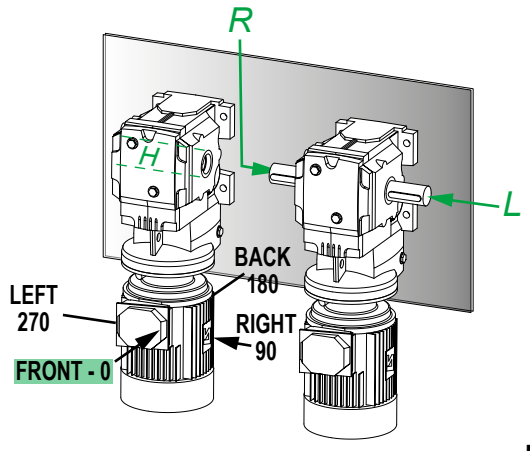
The absolute orientation of the connection (TB: Up, Down, Right, Left, Front, Back) is related to the chosen operating position.
The relative orientation (0-90-180-270, in the trigonometric direction), a consequence of the absolute position, is related to the base of the gearbox (real or imaginary) for an observer, facing the gearbox.



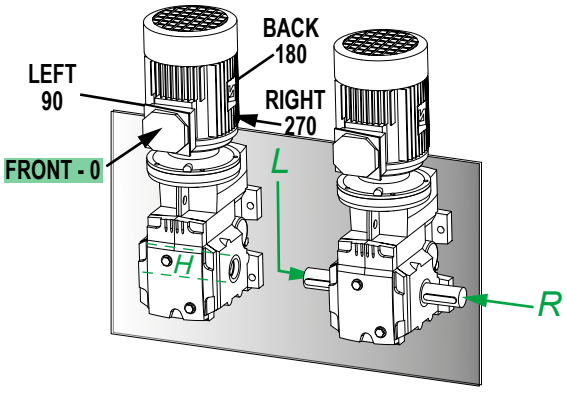
B3



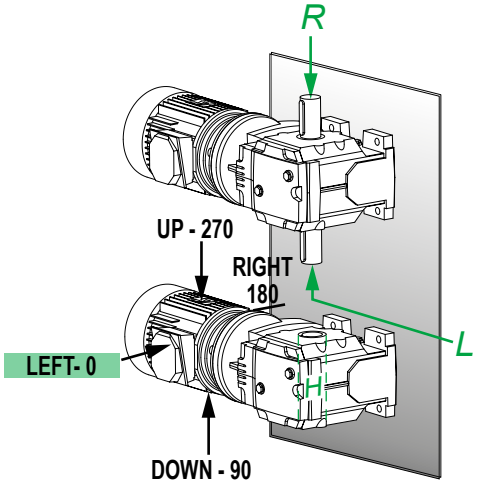
B8



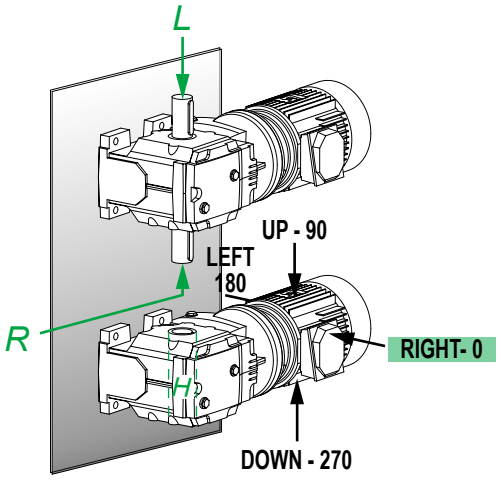
B6



B7



V5



V6

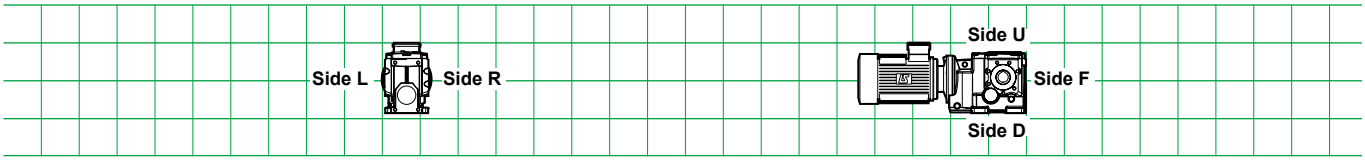
Std terminal box

Output shaft on left L, right R, hollow H.

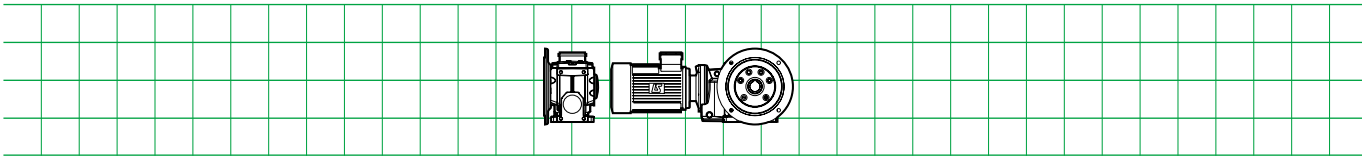
Fixing forms: BSL, BDL

Standard position: gearbox viewed from side F, motor behind.

1 - Marking of the sides

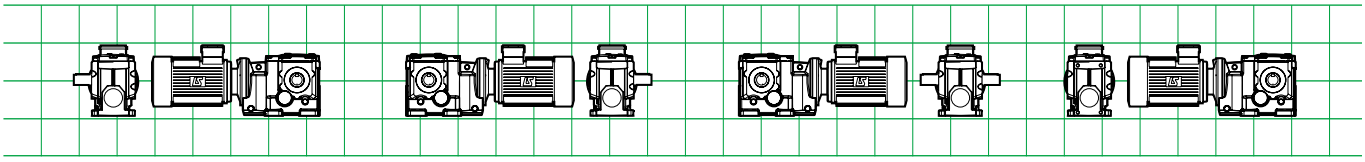


2 - Form fixing



BSL - BDL
Left smooth hole flange

3 - Output shaft

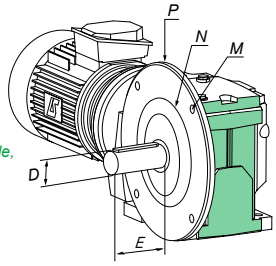


L
Left-output solid shaft

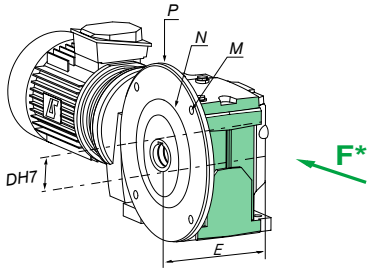
R
Right-output solid shaft

LR
Left and Right-output solid shaft

H
Hollow shaft



** The reference is the view of F side, with the motor at the back, with side D on the ground.*



Dimensions in mm

- Solid shaft on left L

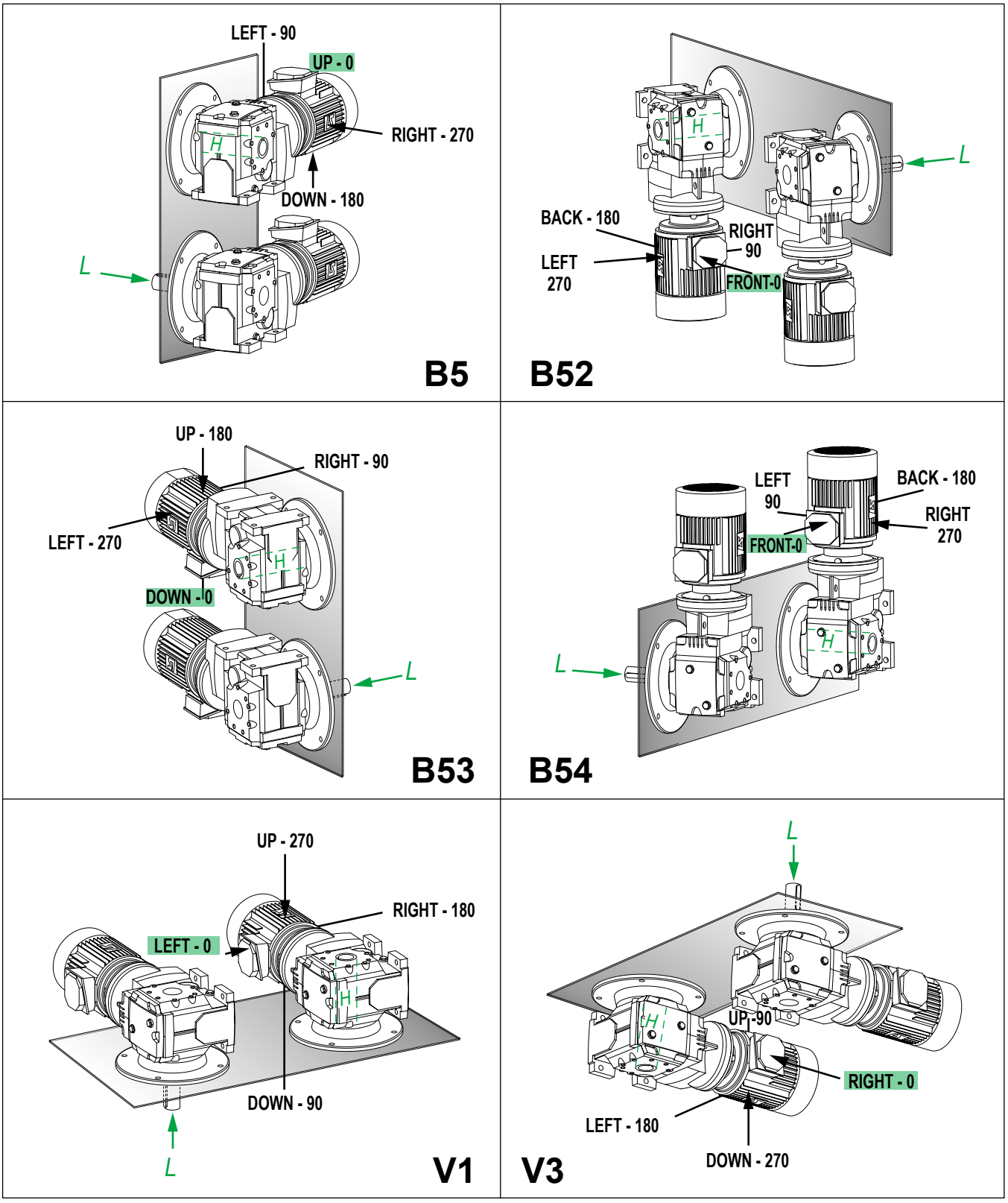
Type	BSL L ØM	ØNj6	ØP	ØD	E	kg	BDL L ØM	ØNj6	ØP	ØD	E	kg
Ot 3933	600	550	660	120m6	210	726	-	-	-	-	-	-
Ot 3833	600	550	660	110m6	210	440	500	450	550	110m6	210	402
Ot 3733	500	450	550	90m6	170	342	400	350	450	90m6	170	336
Ot 3633	500	450	550	70m6	140	232	400	350	450	70m6	140	226
Ot 3533	350	300	400	60m6	120	94	300	250	350	60m6	120	93
Ot 3433	300	250	350	50k6	100	68	265	230	300	50k6	100	67
Ot 3333	265	230	300	40k6	80	42	215	180	250	40k6	80	42
Ot 3233	215	180	250	30j6	60	22	165	130	200	30j6	60	21.7
Ot 3232	215	180	250	30j6	60	23.3	165	130	200	30j6	60	23
Ot 3132	130	110	165	25j6	50	14.8	-	-	-	-	-	-

- Hollow shaft H

Type	BSL H ØM	ØNj6	ØP	ØDH7	E	kg	BDL H ØM	ØNj6	ØP	ØDH7	E	kg
Ot 3933	600	550	660	120	450	648	-	-	-	-	-	-
Ot 3833	600	550	660	100	350	408	500	450	550	100	350	374
Ot 3733	500	450	550	90	340	328	400	350	450	90	340	322
Ot 3633	500	450	550	70	310	222	400	350	450	70	310	216
Ot 3533	350	300	400	60	244	91	300	250	350	60	244	89
Ot 3433	300	250	350	50	226	66	265	230	300	50	226	65
Ot 3333	265	230	300	40	173	40	215	180	250	40	173	40
Ot 3233	215	180	250	35	151	21	165	130	200	35	151	21.7
Ot 3232	215	180	250	35	151	23.3	165	130	200	30	151	23
Ot 3132	130	110	165	30	130	14.8	-	-	-	-	-	-

Operating position

The absolute orientation of the connection (TB: Up, Down, Right, Left, Front, Back) is related to the chosen operating position.
The relative orientation (0-90-180-270, in the trigonometric direction), a consequence of the absolute position, is related to the base of the gearbox (real or imaginary) for an observer, facing the gearbox.



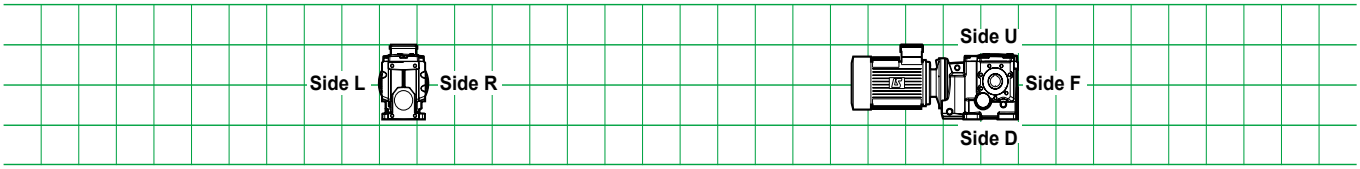
Std terminal box

*Slow shaft left **L**, hollow **H**.*

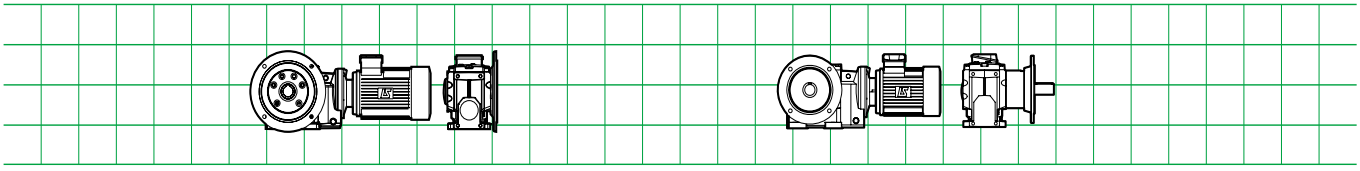
Fixing forms: BSR, BDR, BRR

Standard position: gearbox viewed from side F, motor behind.

1 - Marking of the sides



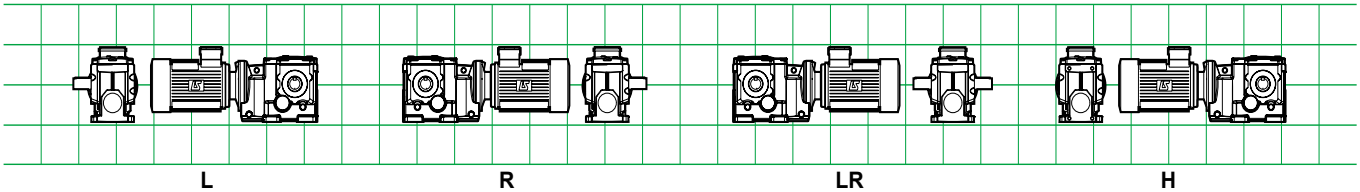
2 - Form fixing



BSR - BDR
Right smooth hole flange

BRR
Reinforced flange on the right

3 - Output shaft



L
Left-output solid shaft

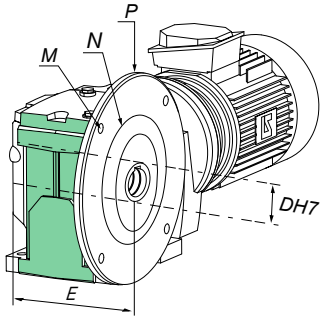
R
Right-output solid shaft

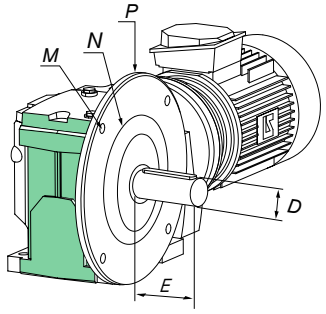
LR
Left and Right-output solid shaft

H
Hollow shaft

** The reference is the view of F side, with the motor at the back, with side D on the ground.*

F*





- Solid shaft on right R

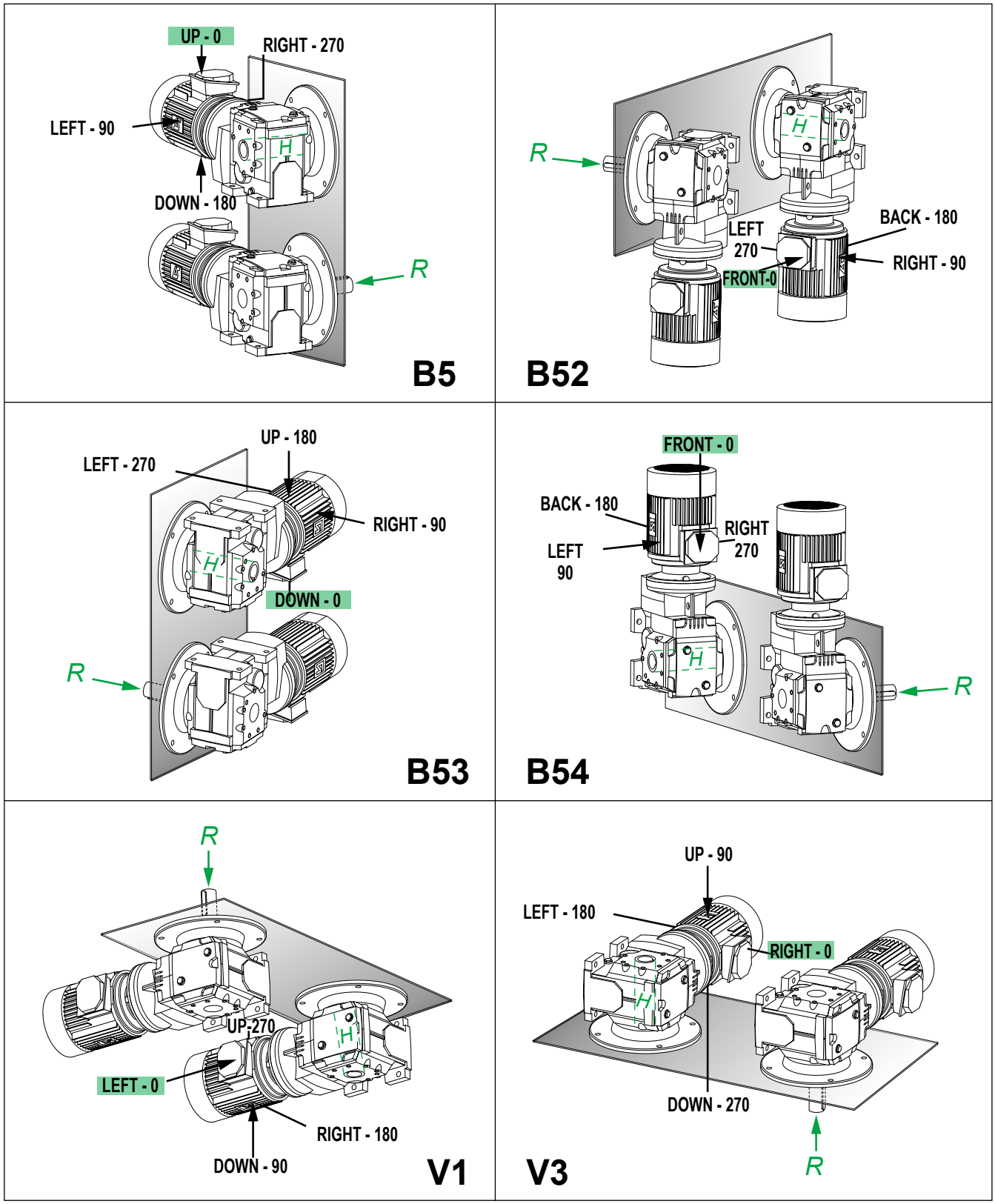
Type	BSR R ØM	ØNj6	ØP	ØD	E	kg	BDR R ØM	ØNj6	ØP	ØD	E	kg	BRR R only ØM	ØNj6	ØP	ØD	E	kg
Ot 3933	600	550	660	120m6	210	726	-	-	-	-	-	-	-	-	-	-	-	-
Ot 3833	600	550	660	110m6	210	440	500	450	550	110m6	210	402	-	-	-	-	-	-
Ot 3733	500	450	550	90m6	170	342	400	350	450	90m6	170	336	-	-	-	-	-	-
Ot 3633	500	450	550	70m6	140	232	400	350	450	70m6	140	226	-	-	-	-	-	-
Ot 3533	350	300	400	60m6	120	94	300	250	350	60m6	120	93	300	250	350	65m6	130	120
Ot 3433	300	250	350	50k6	100	68	265	230	300	50k6	100	67	265	230	300	55k6	110	72
Ot 3333	265	230	300	40k6	80	42	215	180	250	40k6	80	42	215	180	250	45k6	90	51
Ot 3233	215	180	250	30j6	60	22	165	130	200	30j6	60	21.7	-	-	-	-	-	-
Ot 3232	215	180	250	30j6	60	23.3	165	130	200	30j6	60	23	-	-	-	-	-	-
Ot 3132	130	110	165	25j6	50	14.8	-	-	-	-	-	-	-	-	-	-	-	-

- Hollow shaft H

Type	BSR H ØM	ØNj6	ØP	ØDH7	E	kg	BDR H ØM	ØNj6	ØP	ØDH7	E	kg
Ot 3933	600	550	660	120	450	648	-	-	-	-	-	-
Ot 3833	600	550	660	100	350	408	500	450	550	100	350	374
Ot 3733	500	450	550	90	340	328	400	350	450	90	340	322
Ot 3633	500	450	550	70	310	222	400	350	450	70	310	216
Ot 3533	350	300	400	60	244	91	300	250	350	60	244	89
Ot 3433	300	250	350	50	226	66	265	230	300	50	226	65
Ot 3333	265	230	300	40	173	40	215	180	250	40	173	40
Ot 3233	215	180	250	35	151	21	165	130	200	35	151	21.7
Ot 3232	215	180	250	35	151	23.3	165	130	200	30	151	23
Ot 3132	130	110	165	30	130	14.8	-	-	-	-	-	-

Operating positions: BSR, BDR, BRR

The absolute orientation of the connection (TB: Up, Down, Right, Left, Front, Back) is related to the chosen operating position. The relative orientation (0-90-180-270, in the trigonometric direction), a consequence of the absolute position, is related to the base of the gearbox (real or imaginary) for an observer, facing the gearbox.



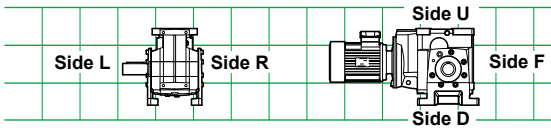
Std terminal box

*Output shaft on right **R**, hollow **H**.*

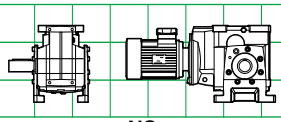
Fixing forms: NS (offset feet fixing)

Standard position: gearbox viewed from side F, motor behind.

1 - Marking of the sides

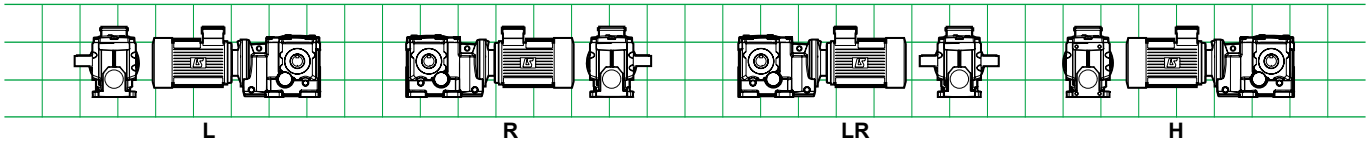


2 - Fixing form



NS
Feet kit added

3 - Output shaft

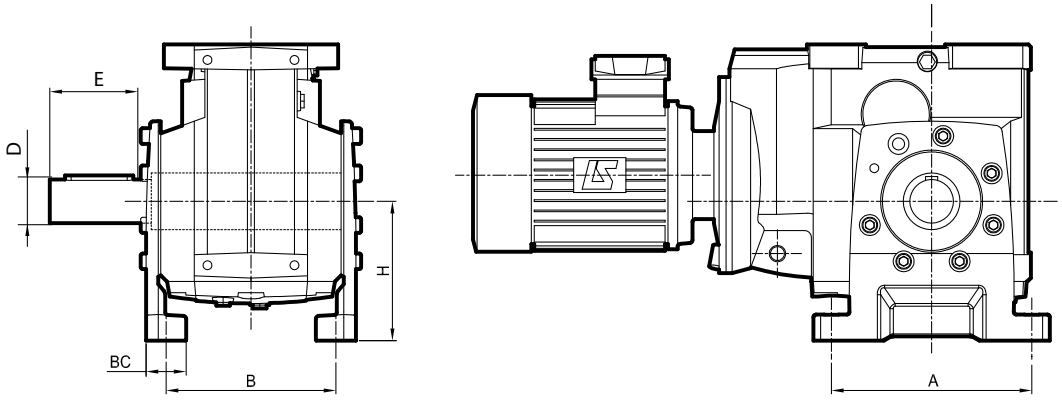


L
Left-output solid shaft

R
Right-output solid shaft

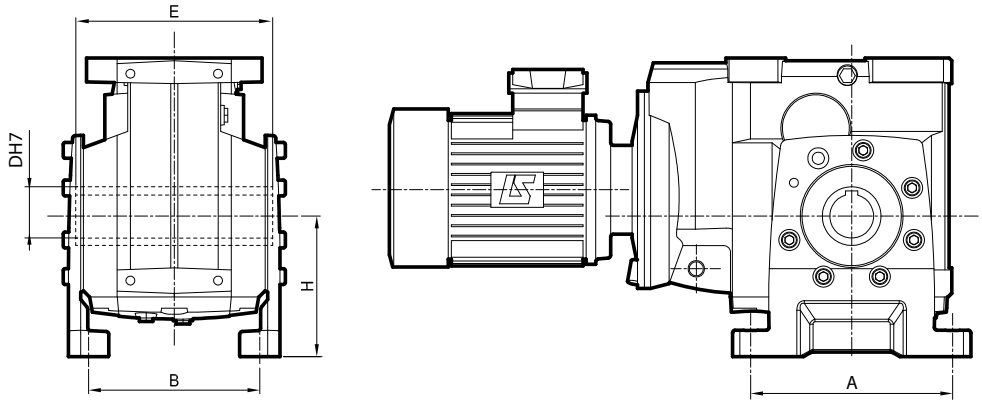
LR
Left and Right-output solid shaft

H
Hollow shaft



- Feet kit added form NS, left solid shaft L, right solid shaft R, hollow shaft H

	NSL - NSR					
Ot	A	B	ØD	BC	H	E
Ot 3533	280	230	60	55	200	120
Ot 3433	230	195	50	46	160	100
Ot 3333	170	155	40	39	125	80

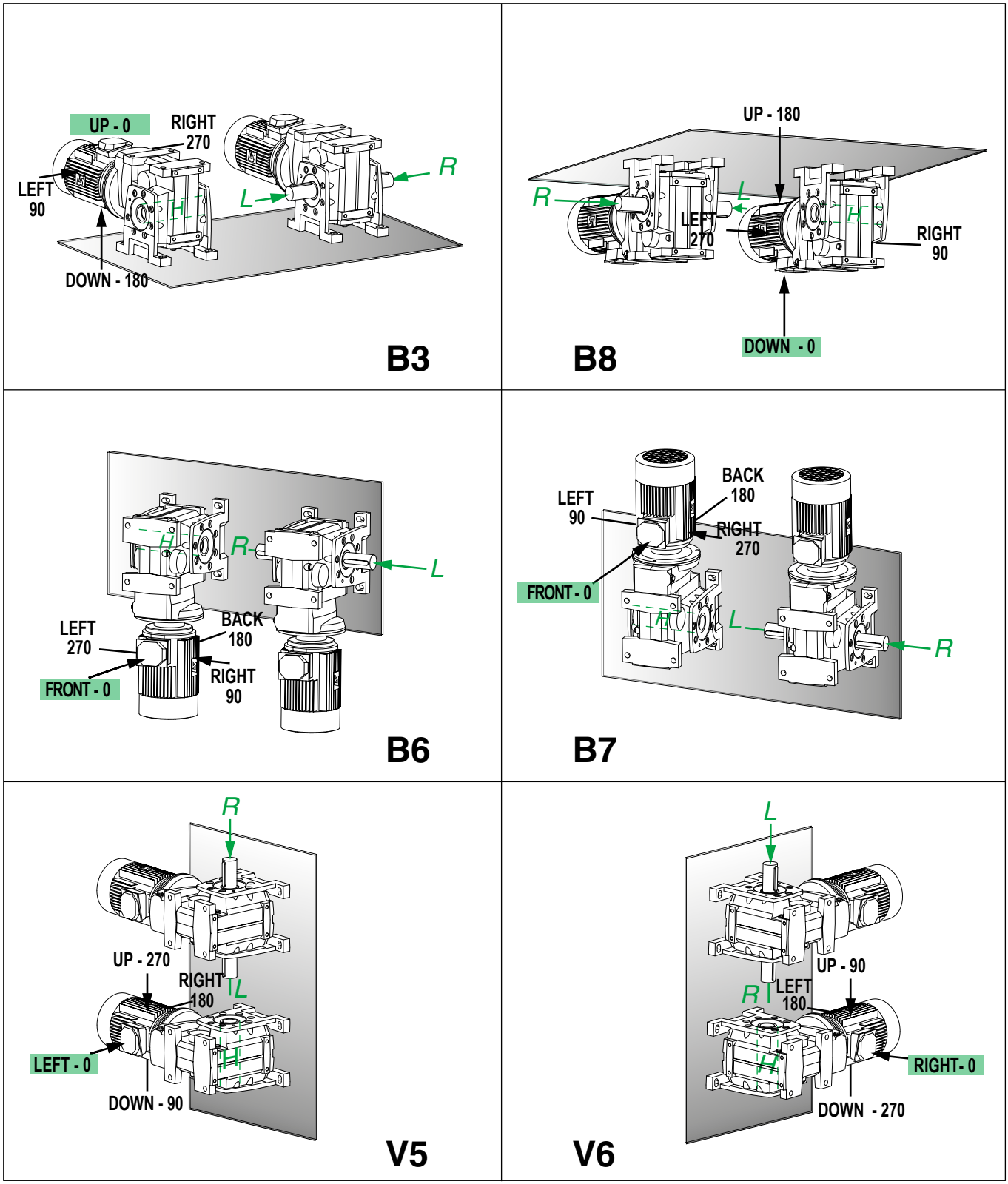


- Feet kit added form NS, hollow shaft H

	NSH					
Ot	A	B	ØD	C	E	H
Ot 3533	280	230	60	7	293	200
Ot 3433	230	195	50	15.5	253	160
Ot 3333	170	155	40	9	213	125

Equipment and options

Extended feet forms NS



Std terminal box

*Output shaft on the left **L**, right **R**, hollow **H***

Selection methods

SELECTING AN INPUT SHAFT GEARBOX (AP)

The following must be known:
- the duty factor,
- the input and output speeds,
- input power or output torque,
- fixing form and operating position.

1- Choosing the K duty factor
The application and operating conditions determine its value. Refer to page 40 of the electromechanical manual reference 5181.

2- Selecting the gearbox
a- Calculate the reduction *i* such as

$$i = N_E / N_S$$

where N_E and N_S are the input and output speeds (in min^{-1});
b- Calculate:
- the equivalent torque M_{eq}:

$$M_{eq} = M_S \times K$$

where M_S is the output torque (in N.m), K the duty factor,
- or the equivalent power P_{eq}

$$P_{eq} = P \times K$$

where *P* is the input power (in kW);
c- Refer to the selection tables corresponding to the type of gearbox pages 18, 19 and 20 for combined gearboxes; each box in the table indicates:
- gearbox size,
- exact reduction,
- input power for K = 1,
- rated output torque for K = 1

Select the gearbox, in the tables (pages 18 to 20), which has a torque equal or above the equivalent torque (or a power equal to above the equivalent power) calculated beforehand for the reduction required.
When the input speed is different from those proposed in the grids, select the gearbox size using the grid with the input speed closest to that used for the output speed close to that required.
Then choose the reduction appropriate for this size of device.

3- Operating positions
Feet form: pages 8 or 14
Left flange form: page 10
Right flange form: page 12

4- Radial force check
Refer to the tables in page 43 to 45 of the reference document 5181.
If the radial force available on the output shaft is below that required by the application, select again using a higher duty factor.
For gearboxes driven by the motor by means of a belt pulley system, check in the tables in page 43 of the electromechanical manual reference 5181 the minimum diameter of the pulley to install on the gearbox input shaft.

5- Choosing the options
Refer to the Equipment and options chapter for the choice of any standardized options. The Ot 36 to 39 can be fitted with an anti-return device (backstop AD). In this case, specify the direction of rotation of the gearbox seen from the output shaft side (p.134).

6- Commissioning, lubrication (p.144)
In case of doubt in the choice or selection of a device, please do not hesitate to contact your Leroy-Somer agent or distributor.

Example of selection
Motorisation of a pump:
- power 7.5 kW at 1450 min^{-1},
- output speed 43 min^{-1},
- operation: 8 hours per day with moderate overloads.

Feet fixing, horizontal mounting with shaft on the left with semi-elastic coupling.
1- Duty factor K = 1.4
2- Selection:
a- reduction ratio:
i = 1450 / 43 = 33.7
b- equivalent power:
(K = 1.4) 7.5 x 1.4 = 10.5.
In the selection grid in page 18, we find for the closest reduction index 35.5 an Ot 3533 for the power immediately above 10.5 which is 10.6.
3- Operating position:
B3 (page 9).

Designation:
Ot 3533 B3 S 34 AP

i exact	**Ot**
kW	M_{nS}

N_S min-1	i_{aR}	ORTHOBLOC																	
		3132		32--		33--		34--		35--		3633*		3733*		3833*		3933*	
37.5	40	39.1	**3132**	39.5	**3233**	38.3	**3333**	39.9	**3433**	38.6	**3533**	39.2	**3633**	38.1	**3733**	40.6	**3833**	39.4	**3933**
		0.87	232	**1.64**	444	**3.02**	793	**5.43**	1485	**9.6**	2539	**16.0**	4300	**27.6**	7203	**51.1**	14240	**76.2**	20604
42.3	35.5	35.6	**3132**	34.8	**3233**	34.6	**3333**	34.8	**3433**	34	**3533**	35	**3633**	34.4	**3733**	36.4	**3833**	35.6	**3933**
		0.96	232	**1.86**	443	**3.33**	791	**5.97**	1425	**10.6**	2465	**17.9**	4300	**29.4**	6947	**53.7**	13405	**81.8**	19980
47.6	31.5	30.7	**3132**	30.8	**3233**	30.6	**3333**	31.5	**3433**	30.49	**3533**	31.4	**3633**	30.4	**3733**	32.4	**3833**	31.3	**3933**
		1.06	221	**2.09**	441	**3.75**	788	**6.40**	1383	**11.7**	2452	**20.0**	4300	**31.8**	6635	**60.4**	13430	**89.5**	19217
53.6	28	27.4	**3132**	27.3	**3233**	28.7	**3333**	28.6	**3433**	27.1	**3533**	28.6	**3633**	26.9	**3733**	28.7	**3833**	29	**3933**
		1.15	214	**2.35**	440	**4.00**	787	**6.85**	1344	**13.4**	2496	**21.9**	4300	**34.3**	6338	**62.8**	12370	**94.4**	18782

Name

Orthobloc: Ot / AP

Ot	3533	34	S	-	L	B3	AP	OPTIONS

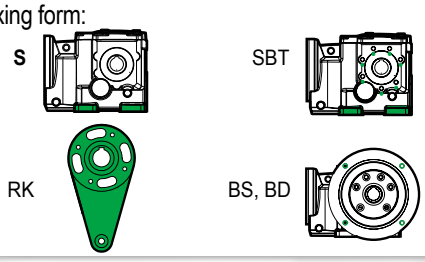
Series:
Ot = standard

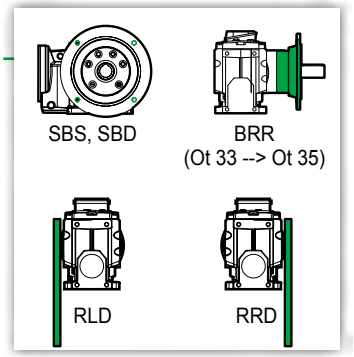
9 sizes:
31-- ; 32-- ; 33-- ; 34-- ;
35-- ; 36-- ; 37-- ; 38-- ; 39--

Index:
--32 : 2 trains
--33 : 3 trains
--35 ; --36: combined

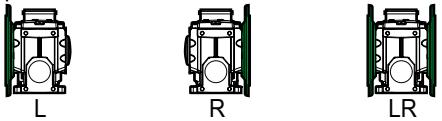
Exact reduction
(rounded to the closest 0.005)
6.03 ---> 160
180 ---> 20,000 (combined)

Fixing form:

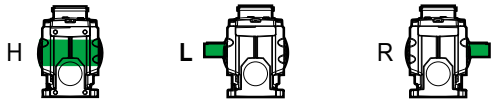


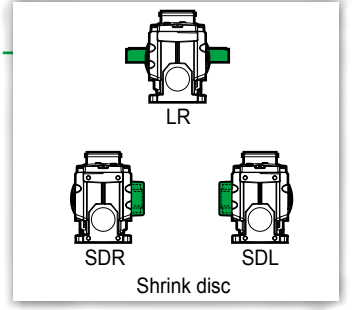


Fixing position:



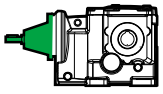
Output shaft:





Operating position:
S, SBT, R - feet: **B3**, B6, B7, B8, V5, V6
BS, BD - flange: B5, B52, B53, B54, V1, V3

Input type:



AD: backstop
(Ot 36 to Ot 39)

AP/AD

indicate clockwise
or counter-clockwise

Selection
Orthobloc: Ot / AP

Ot AP - 1500 min^{-1} - kp = 1

Rated capacities

i exact	Ot
kW	M_{nS}

N_S min-1	i_{aR}	ORTHOBLOC																	
		3132		32--		33--		34--		35--		3633*		3733*		3833*		3933*	
9.38	160			156	**3233**	160	**3333**	154	**3433**	159	**3533**	157	**3633**	152	**3733**	154	**3833**	156	**3933**
				0.42	454	**0.74**	812	**1.54**	1622	**2.4**	2667	**4.0**	4300	**8.1**	8414	**14.0**	14769	**23.7**	25358
10.7	140			142	**3233**	137	**3333**	139	**3433**	134	**3533**	135	**3633**	135	**3733**	137	**3833**	139	**3933**
				0.47	453	**0.86**	811	**1.70**	1619	**2.9**	2655	**4.6**	4300	**9.1**	8396	**15.7**	14756	**28.1**	26776
12.0	125			124	**3233**	125	**3333**	124	**3433**	121	**3533**	124	**3633**	123	**3733**	128	**3833**	123	**3933**
				0.53	452	**0.94**	810	**1.90**	1617	**3.2**	2648	**5.1**	4300	**9.9**	8381	**16.8**	14734	**31.2**	26344
13.4	112			113	**3233**	113	**3333**	108	**3433**	109	**3533**	108	**3633**	109	**3733**	115	**3833**	110	**3933**
				0.58	452	**1.04**	809	**2.18**	1613	**3.5**	2640	**5.8**	4300	**11.2**	8359	**18.6**	14697	**34.4**	25955
15	100			97.2	**3233**	96.4	**3333**	95.4	**3433**	101	**3533**	95.1	**3633**	98	**3733**	102	**3833**	98.1	**3933**
				0.68	451	**1.22**	807	**2.46**	1610	**3.8**	2633	**6.6**	4300	**12.4**	8340	**20.9**	14658	**38.0**	25576
16.7	90			86.7	**3233**	85.7	**3333**	87.7	**3433**	86.5	**3533**	85.3	**3633**	87.4	**3733**	90.8	**3833**	87.6	**3933**
				0.76	450	**1.37**	805	**2.67**	1607	**4.4**	2621	**7.3**	4300	**13.9**	8318	**23.5**	14619	**41.9**	25200
18.8	80			77.7	**3233**	77	**3333**	77.5	**3433**	80.6	**3533**	75.9	**3633**	80.4	**3733**	80.5	**3833**	78.3	**3933**
				0.84	449	**1.52**	804	**3.02**	1604	**4.7**	2615	**8.3**	4300	**15.1**	8302	**26.4**	14579	**46.2**	24835
21.1	71			68	**3233**	67.8	**3333**	69	**3433**	70.6	**3533**	69.6	**3633**	68.9	**3733**	72.2	**3833**	69.7	**3933**
				0.96	449	**1.72**	802	**3.38**	1600	**5.4**	2603	**9.0**	4300	**17.5**	8270	**29.1**	14427	**51.1**	24439
23.8	63			64.3	**3233**	61	**3333**	61.9	**3433**	62.4	**3533**	60.1	**3633**	63.2	**3733**	64.3	**3833**	62.1	**3933**
				1.02	448	**1.91**	801	**3.76**	1596	**6.1**	2591	**10.4**	4300	**19.0**	8250	**31.6**	13939	**55.4**	23608
26.8	56			54.1	**3233**	53.8	**3333**	57	**3433**	55.5	**3533**	54.4	**3633**	55.9	**3733**	57	**3833**	55.0	**3933**
				1.20	447	**2.16**	799	**4.08**	1594	**6.8**	2579	**11.5**	4300	**21.4**	8222	**34.4**	13442	**60.4**	22772
30	50	49.4	**3132**	51	**3233**	50.3	**3333**	50.6	**3433**	49.8	**3533**	47.8	**3633**	47.7	**3733**	50.1	**3833**	48.9	**3933**
		0.69	233	**1.27**	446	**2.31**	797	**4.58**	1589	**7.5**	2568	**13.1**	4300	**23.8**	7801	**37.6**	12933	**65.6**	22001
33.3	45	44.8	**3132**	45.2	**3233**	43.7	**3333**	44.1	**3433**	42.6	**3533**	44.1	**3633**	42.5	**3733**	44.2	**3833**	44.6	**3933**
		0.77	233	**1.44**	445	**2.65**	795	**5.06**	1531	8.7	2551	**14.2**	4300	**25.7**	7488	**41.1**	12448	**69.9**	21400
37.5	40	39.1	**3132**	39.5	**3233**	38.3	**3333**	39.9	**3433**	38.6	**3533**	39.2	**3633**	38.1	**3733**	40.6	**3833**	39.4	**3933**
		0.87	232	**1.64**	444	**3.02**	793	**5.43**	1485	**9.6**	2539	**16.0**	4300	**27.6**	7203	**51.1**	14240	**76.2**	20604
42.3	35.5	35.6	**3132**	34.8	**3233**	34.6	**3333**	34.8	**3433**	34	**3533**	35	**3633**	34.4	**3733**	36.4	**3833**	35.6	**3933**
		0.96	232	**1.86**	443	**3.33**	791	**5.97**	1425	**10.6**	2465	**17.9**	4300	**29.4**	6947	**53.7**	13405	**81.8**	19980
47.6	31.5	30.7	**3132**	30.8	**3233**	30.6	**3333**	31.5	**3433**	30.49	**3533**	31.4	**3633**	30.4	**3733**	32.4	**3833**	31.3	**3933**
		1.06	221	**2.09**	441	**3.75**	788	**6.40**	1383	**11.7**	2452	**20.0**	4300	**31.8**	6635	**60.4**	13430	**89.5**	19217
53.6	28	27.4	**3132**	27.3	**3233**	28.7	**3333**	28.6	**3433**	27.1	**3533**	28.6	**3633**	26.9	**3733**	28.7	**3833**	29	**3933**
		1.15	214	**2.35**	440	**4.00**	787	**6.85**	1344	**13.4**	2496	**21.9**	4300	**34.3**	6338	**62.8**	12370	**94.4**	18782
60	25	24.6	**3132**	24.1	**3233**	24.3	**3333**	24.8	**3433**	24.3	**3533**	25	**3633**	24	**3733**	25.3	**3833**	24.8	**3933**
		1.23	206	**2.66**	439	**4.70**	783	**7.56**	1287	**14.9**	2480	**25.1**	4300	**41.0**	6756	**72.9**	12651	**105.4**	17926
67.0	22.4	21.5	**3132**	22.9	**3233**	23.3	**3333**	21.3	**3433**	23.6	**3533**	21.4	**3633**	22.6	**3733**	22.2	**3833**	22.6	**3933**
		1.36	198	**2.78**	436	**4.36**	697	**8.15**	1191	**14.9**	2420	**28.2**	4142	**40.8**	6332	**77.2**	11763	**112**	17435
75.0	20	20.3	**3132**	20.4	**3233**	20.3	**3333**	19.3	**3433**	20.8	**3533**	19.2	**3633**	19.9	**3733**	19.6	**3833**	19.7	**3933**
		1.40	193	**3.01**	421	**5.37**	748	**8.73**	1156	**16.8**	2403	**28.2**	3713	**41.3**	5632	**87.3**	11738	**115**	15516
83.3	18	17.1	**3132**	17.7	**3232**	18.6	**3333**	17.5	**3433**	18.7	**3533**	17.9	**3633**	17.6	**3733**	17.8	**3833**	18.3	**3933**
		1.58	183	**3.00**	361	**5.42**	692	**9.35**	1123	**18.6**	2388	**27.4**	3370	**40.5**	4889	**90.6**	11058	**121**	15165
93.8	16	16.1	**3132**	15.6	**3232**	16.1	**3333**	15.5	**3433**	16.6	**3533**	16	**3633**	15.5	**3733**	15.5	**3833**	15.7	**3933**
		1.63	178	**3.41**	361	**6.31**	697	**10.5**	1119	**20.8**	2371	**28.5**	3132	**42.1**	4479	**103**	10950	**134**	14474
107	14	14.3	**3132**	14.1	**3232**	14.8	**3333**	15.2	**3433**	14.9	**3533**	14.6	**3633**	13.7	**3733**	13.9	**3833**	14.3	**3933**
		1.76	171	**3.77**	361	**6.77**	687	**10.3**	1076	**23.0**	2354	**30.2**	3023	**42.5**	3994	**111**	10587	**143**	14077
120	12.5	12.5	**3132**	12.4	**3232**	12.3	**3333**	12.3	**3433**	12.3	**3533**	12.7	**3633**	12.3	**3733**	12.4	**3833**	12.9	**3933**
		1.92	163	**4.29**	361	**7.83**	661	**12.0**	1010	**26.7**	2256	**32.9**	2865	**48.4**	4083	**120**	10224	**154**	13659
134	11.2	11	**3132**	11.6	**3232**							10.9	**3633**	11.5	**3733**	11.1	**3833**		
		2.09	156	**4.58**	361							**36.0**	2690	**50.4**	3979	**125.6**	9564		
150	10	9.72	**3132**	10.1	**3232**	9.78	**3333**	9.51	**3433**	9.47	**3533**	9.81	**3633**	10.1	**3733**	10	**3833**		
		2.26	149	**5.26**	361	**9.18**	616	**14.3**	935	**32.1**	2087	**38.2**	2570	**54.5**	3775	**142**	9506		
167	9	8.62	**3132**	8.83	**3232**							9.1	**3633**	8.95	**3733**	8.94	**3833**		
		2.43	142	**6.02**	361							**27.6**	1721	**40.6**	2491	**90.6**	5559		
188	8	7.62	**3132**	7.97	**3232**							8.15	**3633**	7.9	**3733**	7.8	**3833**		
		2.65	137	**6.67**	361							**28.6**	1599	**42.1**	2282	**103**	5505		
211	7.1	7.23	**3132**	7.05	**3232**							7.43	**3633**	6.99	**3733**	6.98	**3833**		
		2.73	134	**7.54**	361							**33.7**	1718	**42.4**	2035	**111**	5323		
238	6.3	6.43	**3132**	6.61	**3232**							6.5	**3633**	6.25	**3733**	6.21	**3833**		
		2.93	128	**8.04**	361							**32.8**	1463	**45.4**	1946	**121**	5140		
268	5.6	5.1	**3132**	5.6	**3232**							5.57	**3633**	5.86	**3733**	5.59	**3833**		
		3.35	116	**9.49**	361							**36.0**	1374	**47.2**	1896	**125**	4809		
300	5											5	**3633**	5.17	**3733**	4.9	**3833**		
												38.3	1312	**50.7**	1799	**142**	4780		
333	4.5			4.68	**3232**														
				11.3	358														
423	3.55			3.71	**3232**														
				12.9	324														

N_S output speed

i_{aR}: reduction index

Ot36, Ot37, Ot38 and Ot39*: check the thermal limit of the gearbox

M_{nS}: rated output torque (Nm)

Selection
Orthobloc: Ot / AP

Ot AP - 1500 min^{-1} - kp = 1

Rated capacity - Combined gearboxes

i exact	Ot
kW	M_{nS}

N_S min-1	i_{aR}	ORTHOBLOC															
		3235		3335		3435		3535		3635*		3735*		3835*		3935*	
0.08	20000	19800	**3235**	20000	**3335**												
		0.003	456	**0.006**	819												
0.08	18000	17600	**3235**	17800	**3335**	17500	**3435**	17300	**3535**	18800	**3635**	19400	**3735**	18500	**3835**	17900	**3935**
		0.004	456	**0.006**	819	**0.01**	1629	**0.02**	2644	**0.03**	4300	**0.07**	10092	**0.11**	14769	**0.21**	27045
0.09	16000	15600	**3235**	15700	**3335**	15900	**3435**	16100	**3535**	16500	**3635**	16600	**3735**	15800	**3835**	15100	**3935**
		0.004	456	**0.007**	814	**0.01**	1629	**0.02**	2642	**0.04**	4300	**0.09**	10092	**0.13**	14769	**0.25**	27045
0.11	14000	14200	**3235**	14000	**3335**	13900	**3435**	14600	**3535**	14700	**3635**	14700	**3735**	14500	**3835**	13600	**3935**
		0.005	456	**0.008**	814	**0.02**	1629	**0.03**	2642	**0.04**	4300	**0.10**	10092	**0.14**	14769	**0.28**	27045
0.12	12500	12600	**3235**	12400	**3335**	12600	**3435**	12700	**3535**	12200	**3635**	13300	**3735**	13100	**3835**	12300	**3935**
		0.005	456	**0.009**	814	**0.02**	1629	**0.03**	2642	**0.05**	4300	**0.11**	10092	**0.16**	14769	**0.31**	27045
0.13	11200	11200	**3235**	11300	**3335**	10900	**3435**	11600	**3535**	11700	**3635**	11700	**3735**	11200	**3835**	11300	**3935**
		0.006	456	**0.010**	814	**0.02**	1629	**0.03**	2642	**0.05**	4300	**0.12**	10092	**0.18**	14769	**0.33**	27045
0.15	10000	9960	**3235**	10000	**3335**	9730	**3435**	10000	**3535**	10400	**3635**	10500	**3735**	9930	**3835**	9730	**3935**
		0.006	456	**0.011**	814	**0.02**	1629	**0.04**	2642	**0.06**	4300	**0.13**	10092	**0.21**	14769	**0.39**	27045
0.17	9000	8850	**3235**	8870	**3335**	8720	**3435**	8940	**3535**	9340	**3635**	9250	**3735**	8920	**3835**	8520	**3935**
		0.007	456	**0.013**	814	**0.03**	1629	**0.04**	2642	**0.06**	4300	**0.15**	10092	**0.23**	14769	**0.44**	26737
0.19	8000	7900	**3235**	7890	**3335**	7630	**3435**	8010	**3535**	8220	**3635**	8660	**3735**	7860	**3835**	7710	**3935**
		0.008	456	**0.015**	814	**0.03**	1629	**0.05**	2642	**0.07**	4300	**0.16**	10092	**0.26**	14769	**0.49**	26737
0.21	7100	6720	**3235**	7010	**3335**	7210	**3435**	7010	**3535**	7400	**3635**	7510	**3735**	7070	**3835**	7100	**3935**
		0.010	456	**0.016**	814	**0.03**	1629	**0.05**	2642	**0.08**	4300	**0.19**	10092	**0.29**	14769	**0.53**	26737
0.24	6300	6230	**3235**	6200	**3335**	6070	**3435**	6630	**3535**	6520	**3635**	6980	**3735**	6230	**3835**	6110	**3935**
		0.010	456	**0.019**	819	**0.04**	1629	**0.06**	2642	**0.09**	4300	**0.20**	10092	**0.33**	14769	**0.61**	26737
0.27	5600	5350	**3235**	5510	**3335**	5720	**3435**	5370	**3535**	6100	**3635**	6060	**3735**	5830	**3835**	5690	**3935**
		0.012	456	**0.021**	819	**0.04**	1629	**0.07**	2655	**0.10**	4300	**0.23**	10092	**0.35**	14769	**0.66**	26737
0.30	5000	4780	**3235**	4890	**3335**	5070	**3435**	4680	**3535**	5290	**3635**	5290	**3735**	5060	**3835**	4980	**3935**
		0.013	456	**0.024**	819	**0.05**	1629	**0.08**	2655	**0.11**	4300	**0.27**	10092	**0.41**	14769	**0.75**	26737
0.33	4500	4410	**3235**	4440	**3335**	4440	**3435**	4270	**3535**	4770	**3635**	4790	**3735**	4560	**3835**	4400	**3935**
		0.015	456	**0.026**	819	**0.05**	1629	**0.09**	2655	**0.13**	4300	**0.30**	10092	**0.46**	14769	**0.85**	26737
0.38	4000	3920	**3235**	3950	**3335**	4250	**3435**	3690	**3535**	4090	**3635**	4090	**3735**	3900	**3835**	3920	**3935**
		0.017	456	**0.030**	819	**0.05**	1631	**0.10**	2655	**0.15**	4300	**0.35**	10092	**0.54**	14769	**0.95**	26737
0.42	3550	3470	**3235**	3500	**3335**	3700	**3435**	3290	**3535**	3730	**3635**	3630	**3735**	3560	**3835**	3510	**3935**
		0.019	456	**0.033**	819	**0.06**	1631	**0.12**	2655	**0.16**	4300	**0.39**	10092	**0.59**	14769	**1.1**	26737
0.48	3150	3160	**3235**	3110	**3335**	3370	**3435**	2940	**3535**	3380	**3635**	3260	**3735**	3230	**3835**	3010	**3935**
		0.021	456	**0.038**	819	**0.07**	1631	**0.13**	2655	**0.18**	4300	**0.44**	10092	**0.65**	14769	**1.2**	26737
0.54	2800	2800	**3235**	2770	**3335**	2910	**3435**	2580	**3535**	2880	**3635**	2870	**3735**	2750	**3835**	2770	**3935**
		0.023	456	**0.042**	819	**0.08**	1631	**0.15**	2655	**0.21**	4300	**0.50**	10092	**0.76**	14769	**1.4**	26737
0.60	2500	2490	**3235**	2470	**3335**	2600	**3435**	2440	**3535**	2560	**3635**	2590	**3735**	2520	**3835**	2330	**3935**
		0.026	456	**0.047**	819	**0.09**	1631	**0.16**	2655	**0.24**	4300	**0.55**	10092	**0.83**	14726	**1.6**	26737
0.67	2240	2210	**3235**	2100	**3335**	2330	**3435**	2050	**3535**	2300	**3635**	2280	**3735**	2160	**3835**	2100	**3935**
		0.029	456	**0.056**	819	**0.10**	1631	**0.18**	2655	**0.26**	4300	**0.63**	10092	**0.96**	14726	**1.8**	26737

N_S output speed
i_{aR}: reduction index
Ot36, Ot37, Ot38 and Ot39*: check the thermal limit of the gearbox
M_{nS}: rated output torque (Nm)

Selection
Orthobloc: Ot / AP

Ot AP - 1500 min^{-1} - kp = 1

Rated capacity - Combined gearboxes

i exact	**Ot**
kW	M_{nS}

N_S min-1	i_{aR}	ORTHOBLOC															
		3235		3335		3435		3535		3635*		3735*		3835*		3935*	
0.75	2000	1970	**3235**	1950	**3335**	2040	**3435**	1930	**3535**	2030	**3635**	2130	**3735**	1970	**3835**	1900	**3935**
		0.03	456	**0.06**	819	**0.11**	1631	**0.20**	2655	**0.30**	4300	**0.67**	10092	**1.1**	14726	**2.0**	26737
0.83	1800	1760	**3235**	1670	**3335**	1930	**3435**	1710	**3535**	1820	**3635**	1850	**3735**	1780	**3835**	1750	**3935**
		0.04	456	**0.07**	819	**0.12**	1631	**0.22**	2655	**0.33**	4300	**0.77**	10092	**1.2**	14726	**2.2**	26737
0.94	1600	1490	**3235**	1490	**3335**	1620	**3435**	1500	**3535**	1610	**3635**	1720	**3735**	1520	**3835**	1510	**3935**
		0.04	456	**0.08**	819	**0.14**	1631	**0.25**	2655	**0.38**	4300	**0.83**	10092	**1.4**	14726	**2.5**	26737
1.07	1400	1380	**3235**	1390	**3335**	1530	**3435**	1320	**3535**	1500	**3635**	1490	**3735**	1350	**3835**	1400	**3935**
		0.05	456	**0.08**	819	**0.15**	1631	**0.29**	2655	**0.40**	4300	**0.96**	10092	**1.5**	14726	**2.7**	26737
1.20	1250	1190	**3235**	1170	**3335**	1350	**3435**	1260	**3535**	1300	**3635**	1350	**3735**	1210	**3835**	1230	**3935**
		0.05	456	**0.10**	819	**0.17**	1631	**0.30**	2655	**0.47**	4300	**0.92**	8762	**1.7**	14726	**3.1**	26737
1.34	1120	1060	**3235**	1120	**3335**	1190	**3435**	1060	**3535**	1070	**3635**	1160	**3735**	1070	**3835**	1090	**3935**
		0.06	456	**0.10**	819	**0.20**	1631	**0.36**	2655	**0.57**	4300	**1.1**	8762	**1.9**	14726	**3.5**	26737
1.50	1000	991	**3235**	1010	**3335**	942	**3435**	999	**3535**	979	**3635**	1050	**3735**	962	**3835**	968	**3935**
		0.07	456	**0.12**	819	**0.24**	1614	**0.38**	2655	**0.62**	4300	**1.2**	8762	**2.2**	14726	**3.9**	26737
1.67	900	835	**3235**	872	**3335**	891	**3435**	885	**3535**	887	**3635**	955	**3735**	848	**3835**	867	**3935**
		0.08	456	**0.13**	807	**0.26**	1614	**0.43**	2655	**0.68**	4300	**1.3**	8762	**2.5**	14726	**4.4**	26737
1.88	800	793	**3235**	775	**3335**	750	**3435**	741	**3535**	757	**3635**	815	**3735**	793	**3835**	742	**3935**
		0.08	456	**0.15**	807	**0.31**	1614	**0.50**	2581	**0.80**	4300	**1.5**	8762	**2.6**	14726	**5.1**	26737
2.11	710	718	**3235**	692	**3335**	707	**3435**	661	**3535**	673	**3635**	724	**3735**	688	**3835**	713	**3935**
		0.09	456	**0.17**	807	**0.33**	1614	**0.56**	2581	**0.90**	4300	**1.7**	8762	**3.0**	14726	**5.3**	26737
2.38	630	617	**3235**	588	**3335**	626	**3435**	592	**3535**	605	**3635**	651	**3735**	604	**3835**	625	**3935**
		0.10	448	**0.20**	807	**0.37**	1614	**0.62**	2581	**1.0**	4300	**1.9**	8762	**3.4**	14726	**6.0**	26737
2.68	560	549	**3235**	545	**3335**	548	**3435**	518	**3535**	532	**3635**	573	**3735**	534	**3835**	552	**3935**
		0.12	448	**0.21**	807	**0.42**	1614	**0.71**	2581	**1.1**	4300	**2.2**	8762	**3.9**	14643	**6.8**	26737
3.00	500	488	**3235**	469	**3335**	482	**3435**	490	**3535**	479	**3635**	516	**3735**	469	**3835**	492	**3935**
		0.13	448	**0.25**	807	**0.48**	1614	**0.75**	2581	**1.3**	4300	**2.4**	8762	**4.4**	14643	**7.7**	26737
3.33	450	435	**3235**	418	**3335**	460	**3435**	413	**3535**	422	**3635**	455	**3735**	424	**3835**	441	**3935**
		0.15	448	**0.28**	807	**0.50**	1614	**0.89**	2581	**1.4**	4300	**2.7**	8762	**4.9**	14643	**8.6**	26737
3.75	400	370	**3235**	391	**3335**	387	**3435**	389	**3535**	395	**3635**	425	**3735**	375	**3835**	392	**3935**
		0.17	448	**0.29**	807	**0.60**	1614	**0.95**	2581	**1.5**	4300	**2.9**	8762	**5.5**	14643	**9.5**	26327
4.23	355	343	**3235**	329	**3335**	365	**3435**	345	**3535**	343	**3635**	369	**3735**	351	**3835**	336	**3935**
		0.19	448	**0.35**	807	**0.63**	1614	**1.1**	2581	**1.8**	4300	**3.4**	8762	**5.9**	14643	**11.1**	26327
4.76	315	295	**3235**	313	**3335**	315	**3435**	302	**3535**	339	**3635**	330	**3735**	297	**3835**	304	**3935**
		0.22	448	**0.37**	807	**0.73**	1601	**1.2**	2581	**2.2**	4300	**3.6**	8440	**7.0**	14643	**12.2**	26327
5.36	280	263	**3235**	283	**3335**	298	**3435**	265	**3535**	294	**3635**	289	**3735**	278	**3835**	268	**3935**
		0.24	448	**0.41**	807	**0.77**	1601	**1.4**	2581	**2.5**	4300	**4.1**	8440	**7.5**	14769	**13.9**	26327
6.00	250	246	**3235**	253	**3335**	251	**3435**	235	**3535**	258	**3635**	261	**3735**	261	**3835**	240	**3935**
		0.26	448	**0.45**	800	**0.91**	1601	**1.6**	2581	**2.7**	4300	**4.6**	8440	**8.0**	14769	**15.5**	26327
6.70	224	207	**3235**	213	**3335**	236	**3435**	208	**3535**	233	**3635**	231	**3735**	221	**3835**	214	**3935**
		0.31	448	**0.54**	800	**0.97**	1601	**1.8**	2581	**3.0**	4300	**5.2**	8440	**9.4**	14769	**17.4**	26327
7.50	200	197	**3235**	201	**3335**	210	**3435**	184	**3535**	206	**3635**	217	**3735**	194	**3835**	191	**3935**
		0.32	448	**0.57**	800	**1.1**	1601	**2.0**	2581	**3.1**	4300	**5.5**	8440	**10.7**	14726	**19.5**	26327
8.33	180	178	**3235**	178	**3335**	183	**3435**	174	**3535**	193	**3635**	184	**3735**	171	**3835**		
		0.36	448	**0.64**	800	**1.2**	1601	**2.1**	2581	**3.9**	4300	**6.5**	8440	**12.1**	14685		

N_S output speed

i_{aR}: reduction index

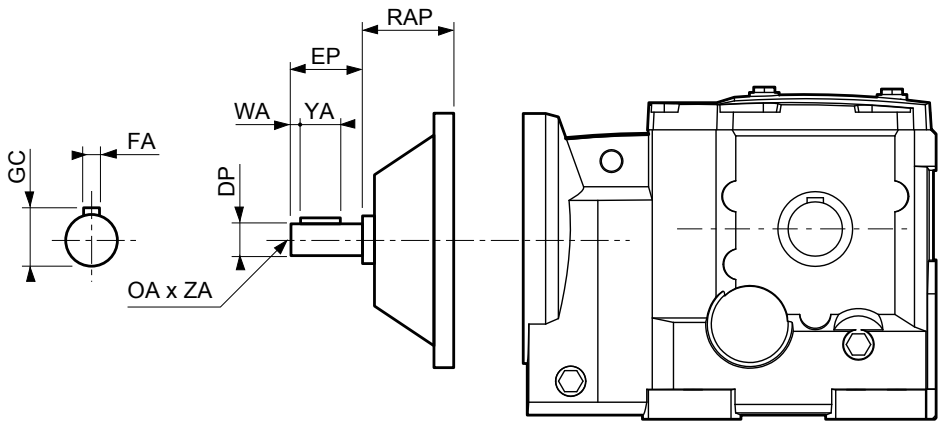
Ot36, Ot37, Ot38 and Ot39*: check the thermal limit of the gearbox

M_{nS}: rated output torque (Nm)

Dimensions
Orthobloc: Ot / AP

Dimensions of the input shaft AP

Dimensions in millimetres



Brake	AP								
	Ø DP	EP	FA	GC	OAxZA	RAP	WA	YA	kg
Ot 3933	55k6	110	16	59	M20x42	48.5	10	90	32
Ot 3833	48k6	110	14	51.5	M16x24	51	10	90	27
Ot 3733	48k6	110	14	51.5	M16x24	51	10	90	27
Ot 3633	48k6	110	14	51.5	M16x24	51	10	90	27
Ot 3533	28j6	60	8	31	M10x22	138.5	5	50	5
Ot 3433	28j6	60	8	31	M10x22	69	5	50	5
Ot 3333	24j6	50	8	27	M8x19	73	4.5	40	1.2
Ot 3233	24j6	50	8	27	M8x19	73	4.5	40	1.5
Ot 3232	24j6	50	8	27	M10x22	73	4.5	40	1.2
Ot 3132	24j6	50	8	27	M8x19	27	4.5	40	1.5

Selection
Orthobloc: Ot / LS, LSES motors

SELECTING A GEARED MOTOR

Proceed as follows to select an MI or MU geared motor:

1 - Determine the power or torque necessary

The following must be known:
- P_{uE}: useful input power necessary for the application
- N_S: gearbox output speed in min^{-1}.

The following selection tables are organized:
- per power for output speeds of 0.27 above 300 min^{-1}; please consult for lower speeds
- per increasing by Kp, per reduction index section

The relation between input power, output speed and output torque is given by the following formula:

$M_S = P_E \times 9.550 \times \eta / N_S$

where η represents the mechanical efficiency of the gearbox (pages 7 and 51 of document reference 5181).

2 - Determine the duty factor K required

It is determined by 3 criteria:
a - Operating time (h/d)
b - Starting frequency Z
c - Ratio between the load inertia and the motor inertia: curve I, II, III (page 40 in document reference 5181).

3 - Determine the type of gearbox
- In the tables pages 25 to 87, select the power required for the application.
- Choose the output speed matching the application.
- And then choose the geared motor with a duty factor greater than that required by the application.

4 - Checking

a- Radial force applied by the load on the output shaft (pages 44 and 45 of document reference 5181).

b- Check the geared motor chosen. In the selection tables pages 25 to 87, check that the value for permissible radial load by the gearbox exceeds the radial force applied by the load (page 44 of document reference 5181).

5 - Fixing form

Refer to page 8 for the definition of foot mounted form*, page 10 for the definition of standard flange fitting on the left and page 12 for the flange on the right.

**or page 14 for Ot 33 to 35 with feet kit added.*

6 - Operating position

Refer to page 9 or 15 for the definition of the operating positions feet form or kit feet, and pages 11 and 13 for those of the flange form (left or right).

Example

Data of the lifting application:
Operation: 16 h/d
m: 2000 kg loaded, 1000 kg empty
Linear speed: 30 m/min
Drum: Ø 200 mm
Acceleration/deceleration time: 1 s
Maximum braking time: 1 s
Global yield: 0.9
Angle transmission gearbox, foot mounting.

Cycle: build-up 9 s, stop 30 s; idle descent 9 s, stop 30 s
No human risk

Determination of the motor

Resistant torque due to the bearing ($Mr_{c/m}$):

$$Mr_{c/m} = 2000 \times 9.81 \times \frac{0.5}{150} \times \frac{1}{0.9} = 72.66 \text{ N.m}$$

Resistant torque due to acceleration ($M\gamma_{c/m}$):

$$M\gamma_{c/m} = \frac{2000 \times 0.5 \times 0.5}{150 \times 0.9} = 3.70 \text{ N.m}$$

Deceleration torque in descent:

$$Mdec. = M\gamma_{moteur} + (3.70 + 72.66) \times 0.9 \times 0.9$$
$$Mdec. = M\gamma_{moteur} + 61.86 \text{ N.m}$$

Torque necessary to the motor:

$Mn \succ 72.66$ N.m $Mdec. \succ 61.86$ N.m + $M\gamma_{moteur}$
$Macc. \succ 76.36$ N.m + $M\gamma_{moteur}$ $Mf \succ 1.6 \times 72.66 \succ 116.26$ N.m

Motor choice (cat. ref.5329):

4P LS 160 MP 11 kW FFB5, Mf 140 N.m

J_{motor} = 0.0338 kg.m² Mn = 72.3 N.m
Md = 209.67 N.m

Motor inertia acceleration torque ($M\gamma_{motor}$):

$$M\gamma_{moteur} = 0.0338 \times \frac{150}{1} = 5 \text{ N.m}$$
$$Mn = 72.3 \text{ N.m} \approx 72.66 \text{ N.m}$$
$$Macc. = 209.67 \text{ N.m} \succ 76.36 \text{ N.m} + 5 \text{ N.m}$$

Operating factor calculation:

$$FM = \frac{\text{Temps de fonctionnement}}{\text{Temps total du cycle}} = \frac{1+9+1}{30+1+9+1} = 26.8\ \%$$

Calculation of number of starts/h:

$$Z = \frac{\text{Nombre de démarrages par cycle}}{\text{Temps de cycle}} \times 3600 = \frac{1}{30+1+9+1} \times 3600 = 87.8 \text{ d/h}$$

Starting frequency check:

$$J_{c/m} = m \times \left(\frac{V}{\omega}\right)^2 = 2000 \times \left(\frac{0.5}{150}\right)^2 = 0.022 \text{ kg.m}^2$$
$$J_m = 0.0338 \text{ kg.m}^2$$
$$Z_o = Z \times \frac{J_{c/m} + J_m}{J_m} = 88 \times \frac{0.022 + 0.057}{0.0338} = 158 \text{ d/h}$$

According to the brake motor catalogue, the Z_0 is 300 s/h, for FM = 25 %.

⚠ ***The load is driving in descent.***

Gearbox choice

Gearbox output speed (min^{-1}):

$$Ns = \frac{V_e \times 60}{\pi \times D} = \frac{1 \times 60}{\pi \times 0.2} = 95.49 \text{ tr/min}$$

Determination of the duty factor:

$J_{c/m} = 0.022$ kg.m² $J_m = 0.0338$ kg.m²

$$FJ = \frac{J_{c/m}}{J_m} = \frac{0.022}{0.0338} = 0.65$$

According to § 'Definition of the duty factor' (page 40, reference 5181) for 87 s/h, operation 16 h/d and inertia factor 0.39 factor k must be > 1.3 for direct starting.

Selecting the geared motor

a - Fixed speed
- Search the selection tables corresponding to P_{uE} = 11 kW
- Search the output speed n_S of the geared motor closest to 95.5 min^{-1} (page 70)
- Select the geared motor with a duty factor greater than that required by the application.
- ---> Select the geared motor Ot 3533, i = 14.9 and Kp = 2.29 (extract in next page)
- To finish, check that the radial and axial forces values of the geared motor exceed the stress applied by the load.

b - Variable speed

When using variable speed with separate drive, the input speed of the gearbox must not exceed 3 000 min^{-1}.
In the tables at 87 Hz, select the power equivalent to 11 kW - 50 Hz, 95.4 min^{1} (page 65).
Take the 7.5 kW motor developing 13.1 kW at 87 Hz.
Search for the speed required 95.5 in Ot 3533 with i: 27.1 and Kp = 1.73 (extract in next page).

Selection
Orthobloc: Ot / LS, LSES motors

SELECTING A FIXED SPEED GEARED MOTOR

- Search the selection tables corresponding to P_{uE} = 11 kW (page 70).
- Search the output speed N_S of the geared motor closest to 95.4 min^{-1} at 50 Hz.
- Select the geared motor with a duty factor above that required by the application.
- ---> Select the geared motor Ot 3533, i = 14.9, Kp = 2.29

LS, LSES		Ot - Gearbox					LS, LSES	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI < —— > page	N_S (min^{-1})	Kp
11 kW - 50 Hz			LSES 160 M IFT/IE3 LS 160 MP FFB5 IFT/NIE - LSES 160 M FFB5 IFT/IE3				**19.1 kW - 87 Hz***	
97.6	**2.29**	**3533**	14.9	1031	16,255	99-119	170	1.99
100	**3.02**	**3633**	14.6	1011	33,499	101-121		
106	**4**	**3733**	13.7	951	44,733	103-123		

SELECTING A VARIABLE SPEED GEARED MOTOR
CENTRALIZED CONTROL WITH DRIVE

When using variable speed with separate drive, the input speed of the gearbox must not exceed 3,000 min^{-1}.
In the tables at 87 Hz (page 65), select the power equivalent to 11 kW - 50 Hz, 95 min^{1}.
Take the 7.5 kW motor developing 13.1 kW at 87 Hz.
Search for the speed required close to 95.4 in Ot 3533 with i = 27.1 and Kp = 1.73

LS, LSES		Ot - Gearbox					LS, LSES	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI < —— > page	N_S (min^{-1})	Kp
7.5 kW - 50 Hz			LSES 132 MU IFT/IE3 LS 132 M FFB4 IFT/NIE - LSES 132 MU FFB4 IFT/IE3				**13.1 kW - 87 Hz***	
50.8	**1.01**	**3433**	28.6	1351	9,823	97-117	88	0.85
53.4	**1.95**	**3533**	27.1	1283	19,305	99-119	93	1.73
50.7	**3.18**	**3633**	28.6	1352	32,587	101-121		

AVAILABILITY

Although quality and energy performance of the products have now become the major criteria in user choices, they remain insufficient if the product's availability does not meet the needs.
An extract of the table below provides a view of the ranges part of the Express Availability.
To know the lead time of your product, refer to the detailed grids accessible on: http://lrsm.co/dispoen

	Motors and geared motors	Range	*Shipping times (with a selection of options)
General applications	IMfinity IE3 - IP55 induction motors	0.75 to 355 kW	**D to D+10**
	LSES IE2 single speed induction motors	0.25 to 0.55 kW	**D to D+2**
	Brake motors	0.25 to 45 kW	**D+1 to D+10**
	Helical geared motors	30 to 14,500 Nm	**D+5 to D+10**
	Motors with built-in drive ID300	0.25 to 7.5 kW	**D+5 to D+10**

*Shipping times in working days for orders received at the plant on day D before 12:00.
Refer to details page 148, Express Availability.

Name

Orthobloc: Ot / LS, LSES motors

Ot	3533	14.9	S	-	L	B3	MI	OPTIONS

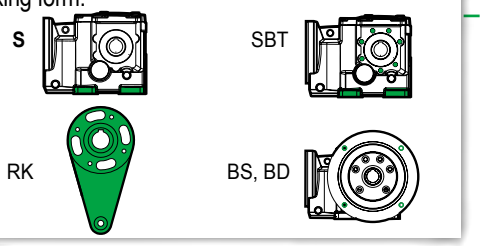
Series:
Ot = standard

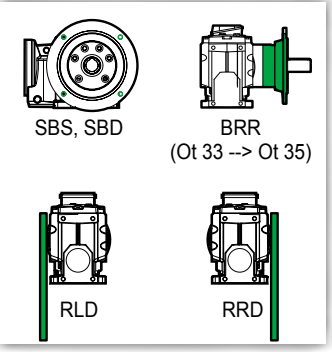
9 sizes:
31--; 32--; 33--; 34--;
35--; 36--; 37--; 38--; 39--

Index:
--33;
--35;
--36

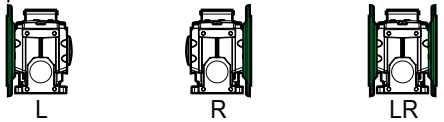
Exact reduction
(rounded to the closest 0.005)
6.03 ---> 160
180 ---> 20000 (combined)

Fixing form:

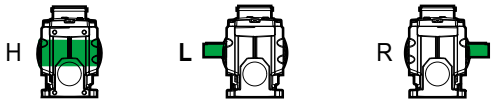


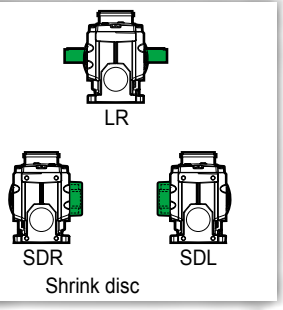


Fixing position:



Output shaft:





Operating position:
S, SBT, R - feet: **B3**, B6, B7, B8, V5, V6
BS, BD - flange: B5, B52, B53, B54, V1, V3

Input shaft:

AD: backstop

MI/AD - MU/AD

indicate clockwise
or counter-clockwise

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI < —— > page	N_S (min^{-1})	Kp
0.25 kW - 50 Hz				**LSES 71 M IFT/IE2 LS 71 M FFB1[1]**				
0.27	**1.30**	**3735**	5,290	7,781	29,849	129		
0.30	**1.43**	**3735**	4,790	7,049	31,462	129		
0.31	**2.2**	**3835**	4,560	6,709	50,369	129		
0.35	**1.68**	**3735**	4,090	6,013	33,736	129		
0.36	**2.57**	**3835**	3,900	5,745	51,287	129		
0.38	**0.79**	**3635**	3,730	5,462	21,655	129		
0.39	**1.89**	**3735**	3,630	5,345	35,199	129		
0.40	**2.82**	**3835**	3,560	5,240	51,767	129		
0.42	**0.87**	**3635**	3,380	4,948	23,017	129		
0.44	**2.1**	**3735**	3,260	4,804	36,381	129		
0.44	**3.11**	**3835**	3,230	4,747	52,232	129		
0.49	**1.02**	**3635**	2,880	4,219	24,953	129		
0.52	**3.65**	**3835**	2,750	4,049	52,889	129		
0.56	**1.15**	**3635**	2,560	3,750	26,198	129		
0.57	**3.98**	**3835**	2,520	3,704	53,213	129		
0.69	**0.87**	**3535**	2,050	3,047	13,160	129		
0.62	**1.28**	**3635**	2,300	3,368	27,213	129		
0.66	**5**	**3835**	2,160	3,172	53,711	129		
0.74	**0.92**	**3535**	1,930	2,871	13,783	129		
0.72	**5**	**3835**	1,970	2,893	53,971	129		
0.83	**1.04**	**3535**	1,710	2,545	14,937	129		
0.80	**6**	**3835**	1,780	2,621	54,225	129		
0.95	**1.19**	**3535**	1,500	2,227	16,055	129		
0.94	**7**	**3835**	1,520	2,236	54,583	129		
1.08	**1.35**	**3535**	1,320	1,960	16,989	129		
1.06	**7**	**3835**	1,350	1,987	54,813	129		
1.05	**0.81**	**3435**	1,350	2,013	17,747	129		
1.13	**1.42**	**3535**	1,260	1,869	17,304	129		
1.06	**4**	**3735**	1,350	1,986	42,500	129		
1.17	**8**	**3835**	1,210	1,786	55,000	129		
1.20	**0.93**	**3435**	1,190	1,761	18,110	129		
1.34	**1.69**	**3535**	1,060	1,574	18,330	129		
1.33	**2.73**	**3635**	1,070	1,576	31,991	129		
1.23	**5**	**3735**	1,160	1,701	43,116	129		
1.51	**1.15**	**3435**	942	1,399	18,631	129		
1.43	**1.79**	**3535**	999	1,483	18,645	129		
1.45	**2.99**	**3635**	979	1,436	32,364	129		
1.35	**6**	**3735**	1,050	1,551	43,439	129		
1.60	**1.22**	**3435**	891	1,323	18,739	129		
1.61	**2.02**	**3535**	885	1,315	19,229	129		
1.61	**3.31**	**3635**	887	1,301	32,725	129		
1.49	**6**	**3735**	955	1,405	43,754	129		
1.90	**1.45**	**3435**	750	1,114	19,034	129		
1.92	**2.34**	**3535**	741	1,101	19,965	129		
1.88	**3.88**	**3635**	757	1,109	33,237	129		
1.75	**7**	**3735**	815	1,199	44,198	129		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI < —— > page	N_S (min^{-1})	Kp
0.25 kW - 50 Hz				LSES 71 M IFT/IE2 LS 71 M FFB1[1]				
2.06	**0.78**	**3335**	692	1,028	7,309	129		
2.02	**1.54**	**3435**	707	1,050	19,125	129		
2.16	**2.63**	**3535**	661	982	20,375	129		
1.97	**8**	**3735**	724	1,066	44,485	129		
2.42	**0.92**	**3335**	588	874	8,185	129		
2.28	**1.73**	**3435**	626	930	19,297	129		
2.41	**2.93**	**3535**	592	880	20,726	129		
2.19	**9**	**3735**	651	958	44,717	129		
2.61	**1**	**3335**	545	810	8,536	129		
2.60	**1.98**	**3435**	548	814	19,464	129		
2.75	**3.35**	**3535**	518	770	21,103	129		
3.04	**1.16**	**3335**	469	696	9,154	129		
2.95	**2.25**	**3435**	482	716	19,606	129		
2.91	**3.55**	**3535**	490	728	21,247	129		
3.41	**1.3**	**3335**	418	622	9,546	129		
3.10	**2.36**	**3435**	460	684	19,654	129		
3.45	**4**	**3535**	413	613	21,640	129		
3.85	**0.81**	**3235**	370	550	7,003	129		
3.65	**1.39**	**3335**	391	580	9,762	129		
3.68	**2.8**	**3435**	387	576	19,813	129		
3.66	**4**	**3535**	389	578	21,761	129		
4.15	**0.88**	**3235**	343	510	7,120	129		
4.33	**1.65**	**3335**	329	489	10,228	129		
3.90	**2.98**	**3435**	365	542	19,862	129		
4.13	**5**	**3535**	345	512	21,985	129		
4.84	**1.02**	**3235**	295	438	7,330	129		
4.56	**1.74**	**3335**	313	464	10,351	129		
4.52	**3.42**	**3435**	315	468	19,971	129		
4.73	**6**	**3535**	302	448	22,204	129		
5.41	**1.14**	**3235**	263	391	7,467	129		
5.04	**1.92**	**3335**	283	420	10,571	129		
4.78	**3.62**	**3435**	298	443	20,009	129		
5.37	**7**	**3535**	265	394	22,387	129		
5.80	**1.23**	**3235**	246	365	7,543	129		
5.62	**2.13**	**3335**	253	377	10,786	129		
5.68	**4**	**3435**	251	373	20,110	129		
6.88	**1.46**	**3235**	207	307	7,712	129		
6.68	**2.52**	**3335**	213	317	11,074	129		
6.03	**5**	**3435**	236	351	20,142	129		
7.25	**1.53**	**3235**	197	292	7,756	129		
7.08	**2.68**	**3335**	201	299	11,162	129		
6.80	**5**	**3435**	210	311	20,199	129		
8.01	**1.69**	**3235**	178	264	7,838	129		
7.99	**3.02**	**3335**	178	265	11,324	129		
7.77	**6**	**3435**	183	272	20,255	129		
9.11	**1.93**	**3233 MI**	156	235	8,461	93-113		
8.92	**3.41**	**3333**	160	238	11,448	95-115		
9.28	**7**	**3433**	154	229	20,317	97-117		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI < —— > page	N_S (min^{-1})	Kp
0.25 kW - 50 Hz				**LSES 71 M IFT/IE2 LS 71 M FFB1[1]**				
10.1	**2.13**	**3233 MI**	142	213	8,525	93-113		
10.4	**3.97**	**3333**	137	204	11,600	95-115		
10.3	**8**	**3433**	139	207	20,349	97-117		
11.5	**2.44**	**3233**	124	186	8,602	93-113		
11.4	**4**	**3333**	125	186	11,692	95-115		
11.5	**9**	**3433**	124	185	20,381	97-117		
12.7	**2.67**	**3233**	113	169	8,648	93-113		
12.6	**5**	**3333**	113	169	11,772	95-115		
13.2	**10**	**3433**	108	161	20,415	97-117		
14.7	**3.09**	**3233**	97.2	146	8,713	93-113		
14.8	**6**	**3333**	96.4	144	11,886	95-115		
14.9	**11**	**3433**	95.4	142	20,443	97-117		
16.4	**3.46**	**3233**	86.7	130	8,758	93-113		
16.6	**6**	**3333**	85.7	128	11,959	95-115		
16.3	**12**	**3433**	87.7	131	20,459	97-117		
18.3	**3.85**	**3233**	77.7	117	8,796	93-113		
18.5	**7**	**3333**	77	115	12,018	95-115		
18.4	**14**	**3433**	77.5	116	20,480	97-117		
21.0	**4**	**3233**	68	102	8,837	93-113		
21.0	**8**	**3333**	67.8	101	12,080	95-115		
22.2	**5**	**3233**	64.3	97	8,852	93-113		
23.4	**9**	**3333**	61	91	12,125	95-115		
26.3	**6**	**3233**	54.1	81	8,895	93-113		
26.5	**10**	**3333**	53.8	80	12,174	95-115		
28.8	**3.08**	**3132 MI**	49.4	76	6,087	89-109		
28.0	**6**	**3233**	51	77	8,908	93-113		
31.8	**3.39**	**3132 MI**	44.8	69	6,112	89-109		
31.5	**7**	**3233**	45.2	68	8,933	93-113		
33.7	**22**	**3433**	42.3	63	20,557	97-117		
36.5	**3.88**	**3132**	39.1	60	6,145	89-109		
36.0	**7**	**3233**	39.5	59	8,957	93-113		
34.6	**12**	**3333**	41.2	62	12,258	95-115		
37.5	**25**	**3433**	38	57	20,565	97-117		
40.1	**4**	**3132**	35.6	55	6,163	89-109		
38.7	**6**	**3232**	36.8	56	8,466	91-111		
38.4	**13**	**3333**	37.1	55	12,285	95-115		
46.4	**5**	**3132**	30.7	47	6,192	89-109		
45.2	**8**	**3232**	31.5	48	8,487	91-111		
43.6	**14**	**3333**	32.7	49	12,315	95-115		
52.0	**5**	**3132**	27.4	42	6,211	89-109		
49.6	**8**	**3232**	28.7	44	8,499	91-111		
46.6	**15**	**3333**	30.6	46	12,328	95-115		
58.0	**6**	**3132**	24.6	38	6,225	89-109		
54.7	**9**	**3232**	26	40	8,510	91-111		
66.3	**6**	**3132**	21.5	33	6,244	89-109		
64.2	**11**	**3232**	22.2	34	8,525	91-111		
70.2	**6**	**3132**	20.3	31	6,251	89-109		
83.3	**7**	**3132**	17.1	26	6,269	89-109		
88.4	**7**	**3132**	16.1	25	6,273	89-109		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.37 kW - 50 Hz				**LSES 71 M IFT/IE2 LS 71 M FFB1[1]**				
0.27	**0.86**	**3735**	5,290	11,783	20,953	129		
0.30	**0.95**	**3735**	4,790	10,674	23,430	129		
0.31	**1.45**	**3835**	4,560	10,160	47,037	129		
0.35	**1.11**	**3735**	4,090	9,107	26,916	129		
0.36	**1.70**	**3835**	3,900	8,701	48,455	129		
0.39	**1.25**	**3735**	3,630	8,095	29,156	129		
0.40	**1.86**	**3835**	3,560	7,935	49,194	129		
0.43	**1.39**	**3735**	3,260	7,275	30,963	129		
0.44	**2.05**	**3835**	3,230	7,188	49,911	129		
0.49	**1.58**	**3735**	2,870	6,405	32,878	129		
0.52	**2.41**	**3835**	2,750	6,132	50,919	129		
0.55	**1.75**	**3735**	2,590	5,766	34,277	129		
0.56	**2.63**	**3835**	2,520	5,609	51,416	129		
0.62	**0.84**	**3635**	2,300	5,108	22,595	129		
0.62	**1.99**	**3735**	2,280	5,081	35,777	129		
0.66	**3.07**	**3835**	2,160	4,804	52,179	129		
0.70	**0.96**	**3635**	2,030	4,494	24,221	129		
0.67	**2.12**	**3735**	2,130	4,755	36,489	129		
0.72	**3.36**	**3835**	1,970	4,381	52,577	129		
0.78	**1.06**	**3635**	1,820	4,047	25,410	129		
0.80	**3.71**	**3835**	1,780	3,968	52,965	129		
0.95	**0.79**	**3535**	1,500	3,372	12,003	129		
0.88	**1.21**	**3635**	1,610	3,564	26,693	129		
0.83	**2.63**	**3735**	1,720	3,834	38,494	129		
0.93	**4**	**3835**	1,520	3,386	53,511	129		
1.08	**0.89**	**3535**	1,320	2,967	13,443	129		
0.94	**1.29**	**3635**	1,500	3,334	27,305	129		
1.05	**4.89**	**3835**	1,350	3,009	53,863	129		
1.13	**0.94**	**3535**	1,260	2,831	13,926	129		
1.05	**2.91**	**3735**	1,350	3,008	40,289	129		
1.17	**5**	**3835**	1,210	2,705	54,146	129		
1.34	**1.11**	**3535**	1,060	2,384	15,502	129		
1.32	**1.80**	**3635**	1,070	2,388	29,825	129		
1.23	**3.40**	**3735**	1,160	2,576	41,225	129		
1.33	**6**	**3835**	1,070	2,381	54,448	129		
1.42	**1.18**	**3535**	999	2,246	15,985	129		
1.45	**1.98**	**3635**	979	2,176	30,388	129		
1.35	**3.73**	**3735**	1,050	2,349	41,716	129		
1.48	**7**	**3835**	962	2,144	54,668	129		
1.59	**0.81**	**3435**	891	2,004	17,760	129		
1.60	**1.33**	**3535**	885	1,991	16,879	129		
1.60	**2.18**	**3635**	887	1,972	30,934	129		
1.49	**4.12**	**3735**	955	2,128	42,194	129		
1.68	**7.8**	**3835**	848	1,889	54,904	129		
1.89	**0.96**	**3435**	750	1,687	18,216	129		
1.92	**1.55**	**3535**	741	1,668	18,005	129		
1.88	**2.56**	**3635**	757	1,681	31,709	129		
1.74	**5**	**3735**	815	1,816	42,869	129		
1.79	**8**	**3835**	793	1,768	55,017	129		
2.01	**1.02**	**3435**	707	1,590	18,356	129		
2.15	**1.74**	**3535**	661	1,487	18,632	129		
2.11	**2.88**	**3635**	673	1,495	32,208	129		
1.96	**5**	**3735**	724	1,614	43,304	129		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.37 kW - 50 Hz				LSES 71 M IFT/IE2 LS 71 M FFB1[1]				
2.27	**1.15**	**3435**	626	1,409	18,617	129		
2.40	**1.94**	**3535**	592	1,333	19,167	129		
2.35	**3.20**	**3635**	605	1,343	32,613	129		
2.18	**6**	**3735**	651	1,450	43,656	129		
2.59	**1.31**	**3435**	548	1,233	18,866	129		
2.74	**2.21**	**3535**	518	1,166	19,742	129		
2.67	**3.64**	**3635**	532	1,182	33,044	129		
2.48	**7**	**3735**	573	1,277	44,030	129		
2.94	**1.49**	**3435**	482	1,085	19,075	129		
2.90	**2.34**	**3535**	490	1,102	19,961	129		
2.96	**4**	**3635**	479	1,064	33,358	129		
2.75	**8**	**3735**	516	1,150	44,304	129		
3.39	**0.86**	**3335**	418	941	7,805	129		
3.09	**1.56**	**3435**	460	1,035	19,147	129		
3.44	**2.78**	**3535**	413	928	20,560	129		
3.12	**9**	**3735**	455	1,013	44,599	129		
3.64	**0.92**	**3335**	391	879	8,158	129		
3.66	**1.85**	**3435**	387	872	19,381	129		
3.65	**2.95**	**3535**	389	875	20,744	129		
3.34	**9**	**3735**	425	948	44,739	129		
4.32	**1.09**	**3335**	329	740	8,917	129		
3.89	**1.97**	**3435**	365	821	19,454	129		
4.12	**3.33**	**3535**	345	775	21,085	129		
4.54	**1.15**	**3335**	313	703	9,115	129		
4.51	**2.26**	**3435**	315	709	19,617	129		
4.71	**3.80**	**3535**	302	678	21,417	129		
4.20	**6**	**3635**	339	679	34,387	129		
5.02	**1.27**	**3335**	283	636	9,469	129		
4.77	**2.39**	**3435**	298	670	19,674	129		
5.35	**4**	**3535**	265	597	21,695	129		
5.78	**0.81**	**3235**	246	553	6,994	129		
5.60	**1.40**	**3335**	253	570	9,813	129		
5.66	**2.84**	**3435**	251	565	19,829	129		
6.86	**0.96**	**3235**	207	466	7,248	129		
6.65	**1.67**	**3335**	213	480	10,272	129		
6.01	**3.01**	**3435**	236	532	19,877	129		
7.22	**1.01**	**3235**	197	442	7,318	129		
7.06	**1.77**	**3335**	201	452	10,411	129		
6.78	**3.40**	**3435**	210	471	19,966	129		
7.98	**1.12**	**3235**	178	400	7,441	129		
7.97	**2.00**	**3335**	178	401	10,666	129		
7.74	**3.88**	**3435**	183	413	20,052	129		
9.08	**1.27**	**3233 MI**	156	357	8,104	93-113		
8.89	**2.24**	**3333**	160	363	10,852	95-115		
9.25	**5**	**3433**	154	349	20,145	97-117		
10.0	**1.40**	**3233 MI**	142	324	8,201	93-113		
10.4	**2.61**	**3333**	137	311	11,104	95-115		
10.2	**5**	**3433**	139	315	20,194	97-117		
11.5	**1.60**	**3233**	124	282	8,323	93-113		
11.4	**2.86**	**3333**	125	284	11,235	95-115		
11.4	**6**	**3433**	124	282	20,241	97-117		
12.6	**1.76**	**3233**	113	257	8,396	93-113		
12.6	**3.15**	**3333**	113	257	11,361	95-115		
13.2	**6.59**	**3433**	108	245	20,294	97-117		
14.6	**2.03**	**3233**	97.2	222	8,499	93-113		
14.7	**3.68**	**3333**	96.4	219	11,539	95-115		
14.9	**7**	**3433**	95.4	217	20,335	97-117		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.37 kW - 50 Hz				**LSES 71 M IFT/IE2 LS 71 M FFB1[1]**				
16.4	**2.28**	**3233**	86.7	198	8,567	93-113		
16.6	**4.14**	**3333**	85.7	195	11,652	95-115		
16.2	**8**	**3433**	87.7	199	20,361	97-117		
18.3	**2.54**	**3233**	77.7	177	8,625	93-113		
18.4	**5**	**3333**	77	175	11,743	95-115		
18.3	**9**	**3433**	77.5	176	20,394	97-117		
20.9	**2.89**	**3233**	68	155	8,688	93-113		
21.0	**5**	**3333**	67.8	154	11,839	95-115		
20.6	**10**	**3433**	69	157	20,421	97-117		
22.1	**3**	**3233**	64.3	147	8,711	93-113		
23.3	**6**	**3333**	61	139	11,910	95-115		
22.9	**11**	**3433**	61.9	141	20,444	97-117		
26.2	**3.62**	**3233**	54.1	124	8,777	93-113		
26.4	**7**	**3333**	53.8	122	11,985	95-115		
24.9	**12**	**3433**	57	130	20,460	97-117		
28.7	**2.03**	**3132 MI**	49.4	115	5,933	89-109		
27.9	**4**	**3233**	51	116	8,797	93-113		
28.2	**7**	**3333**	50.3	114	12,020	95-115		
28.1	**14**	**3433**	50.6	115	20,482	97-117		
31.7	**2.24**	**3132 MI**	44.8	104	5,975	89-109		
31.4	**4**	**3233**	45.2	103	8,834	93-113		
32.5	**8**	**3333**	43.7	99	12,089	95-115		
33.6	**15**	**3433**	42.3	96	20,509	97-117		
36.4	**2.56**	**3132**	39.1	91	6,027	89-109		
35.9	**5**	**3233**	39.5	90	8,870	93-113		
34.5	**8**	**3333**	41.2	94	12,114	95-115		
37.4	**16.2**	**3433**	38	86	20,523	97-117		
39.9	**2.81**	**3132**	35.6	83	6,059	89-109		
38.6	**4**	**3232**	36.8	85	8,388	91-111		
38.3	**8**	**3333**	37.1	84	12,156	95-115		
40.6	**17**	**3433**	35	79	20,534	97-117		
46.2	**3.13**	**3132**	30.7	71	6,105	89-109		
45.1	**5**	**3232**	31.5	73	8,421	91-111		
43.5	**9**	**3333**	32.7	74	12,201	95-115		
45.8	**19**	**3433**	31	71	20,135	97-117		
51.8	**3.42**	**3132**	27.4	64	6,130	89-109		
49.4	**5**	**3232**	28.7	66	8,438	91-111		
46.4	**10**	**3333**	30.6	70	12,222	95-115		
57.8	**3.68**	**3132**	24.6	57	6,156	89-109		
54.6	**6**	**3232**	26	60	8,450	91-111		
53.5	**12**	**3333**	26.5	60	12,263	95-115		
66.1	**4**	**3132**	21.5	50	6,181	89-109		
63.9	**7**	**3232**	22.2	51	8,478	91-111		
69.9	**4**	**3132**	20.3	47	6,192	89-109		
71.9	**8**	**3232**	19.7	46	8,493	91-111		
83.0	**5**	**3132**	17.1	40	6,218	89-109		
80.0	**9**	**3232**	17.7	41	8,506	91-111		
88.1	**5**	**3132**	16.1	37	6,229	89-109		
90.9	**10**	**3232**	15.6	36	8,519	91-111		
99.4	**5**	**3132**	14.3	33	6,244	89-109		
114	**6**	**3132**	12.5	29	6,258	89-109		
129	**6**	**3132**	11	26	6,269	89-109		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.55 kW - 50 Hz				LSES 71 L IFT/IE2 LS 71 L FFB1[1]				
0.31	**0.95**	**3835**	4,560	15,524	41,774	129		
0.36	**1.11**	**3835**	3,900	13,294	43,998	129		
0.39	**0.82**	**3735**	3,630	12,368	19,743	129		
0.39	**1.22**	**3835**	3,560	12,123	45,153	129		
0.43	**0.91**	**3735**	3,260	11,116	22,535	129		
0.43	**1.34**	**3835**	3,230	10,983	46,232	129		
0.49	**1.03**	**3735**	2,870	9,785	25,488	129		
0.51	**1.58**	**3835**	2,750	9,370	47,840	129		
0.54	**1.15**	**3735**	2,590	8,810	27,644	129		
0.56	**1.72**	**3835**	2,520	8,570	48,611	129		
0.61	**1.30**	**3735**	2,280	7,763	29,888	129		
0.65	**2.01**	**3835**	2,160	7,339	49,792	129		
0.66	**1.39**	**3735**	2,130	7,265	31,044	129		
0.71	**2.20**	**3835**	1,970	6,693	50,408	129		
0.76	**1.60**	**3735**	1,850	6,303	33,152	129		
0.79	**2.43**	**3835**	1,780	6,063	51,006	129		
0.87	**0.79**	**3635**	1,610	5,452	21,736	129		
0.81	**1.72**	**3735**	1,720	5,859	34,076	129		
0.92	**2.85**	**3835**	1,520	5,173	51,848	129		
0.93	**0.84**	**3635**	1,500	5,100	22,663	129		
0.94	**1.99**	**3735**	1,490	5,083	35,814	129		
1.04	**3.20**	**3835**	1,350	4,598	52,388	129		
1.07	**0.97**	**3635**	1,300	4,424	24,409	129		
1.04	**1.91**	**3735**	1,350	4,596	36,873	129		
1.15	**3.56**	**3835**	1,210	4,133	52,811	129		
1.30	**1.18**	**3635**	1,070	3,649	26,466	129		
1.21	**2.23**	**3735**	1,160	3,936	38,274	129		
1.31	**4**	**3835**	1,070	3,638	53,287	129		
1.43	**1.29**	**3635**	979	3,327	27,355	129		
1.33	**2.44**	**3735**	1,050	3,589	39,056	129		
1.46	**5**	**3835**	962	3,276	53,625	129		
1.58	**0.87**	**3535**	885	3,042	13,178	129		
1.58	**1.43**	**3635**	887	3,014	28,185	129		
1.47	**2.69**	**3735**	955	3,251	39,787	129		
1.65	**5**	**3835**	848	2,886	53,977	129		
1.89	**1.01**	**3535**	741	2,548	14,925	129		
1.85	**1.67**	**3635**	757	2,571	29,337	129		
1.72	**3.16**	**3735**	815	2,774	40,818	129		
1.76	**5**	**3835**	793	2,701	54,150	129		
2.12	**1.14**	**3535**	661	2,272	15,894	129		
2.08	**1.88**	**3635**	673	2,285	30,098	129		
1.93	**3.55**	**3735**	724	2,466	41,464	129		
2.03	**6**	**3835**	688	2,343	54,483	129		
2.36	**1.27**	**3535**	592	2,036	16,722	129		
2.31	**2.09**	**3635**	605	2,053	30,716	129		
2.15	**3.95**	**3735**	651	2,216	42,003	129		
2.32	**7**	**3835**	604	2,056	54,750	129		
2.55	**0.86**	**3435**	548	1,884	17,933	129		
2.70	**1.45**	**3535**	518	1,782	17,610	129		
2.63	**2.38**	**3635**	532	1,807	31,373	129		
2.44	**4**	**3735**	573	1,951	42,577	129		
2.62	**8**	**3835**	534	1,820	54,968	129		
2.90	**0.97**	**3435**	482	1,658	18,258	129		
2.86	**1.53**	**3535**	490	1,684	17,948	129		
2.92	**2.64**	**3635**	479	1,627	31,854	129		
2.71	**5**	**3735**	516	1,756	42,996	129		
2.99	**9**	**3835**	469	1,597	55,175	129		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.55 kW - 50 Hz				LSES 71 L IFT/IE2 LS 71 L FFB1[1]				
3.04	**1.02**	**3435**	460	1,581	18,369	129		
3.39	**1.82**	**3535**	413	1,418	18,870	129		
3.31	**3.00**	**3635**	422	1,433	32,371	129		
3.08	**6**	**3735**	455	1,548	43,447	129		
3.61	**1.21**	**3435**	387	1,332	18,727	129		
3.60	**1.93**	**3535**	389	1,337	19,153	129		
3.54	**3.21**	**3635**	395	1,341	32,618	129		
3.29	**6**	**3735**	425	1,448	43,661	129		
3.83	**1.29**	**3435**	365	1,255	18,835	129		
4.06	**2.18**	**3535**	345	1,185	19,678	129		
4.08	**3.70**	**3635**	343	1,163	33,093	129		
3.79	**7**	**3735**	369	1,257	44,074	129		
4.44	**1.48**	**3435**	315	1,083	19,078	129		
4.64	**2.49**	**3535**	302	1,037	20,188	129		
4.14	**4**	**3635**	339	1,039	33,424	129		
4.24	**8**	**3735**	330	1,123	44,361	129		
4.95	**0.83**	**3335**	283	972	7,629	129		
4.70	**1.56**	**3435**	298	1,024	19,162	129		
5.28	**2.83**	**3535**	265	912	20,616	129		
4.77	**5**	**3635**	294	914	33,758	129		
4.84	**9**	**3735**	289	985	44,658	129		
5.52	**0.92**	**3335**	253	871	8,199	129		
5.58	**1.86**	**3435**	251	862	19,394	129		
5.43	**5**	**3635**	258	823	34,002	129		
6.56	**1.09**	**3335**	213	734	8,952	129		
5.92	**1.97**	**3435**	236	813	19,466	129		
6.01	**6**	**3635**	233	725	34,265	129		
6.96	**1.16**	**3335**	201	691	9,179	129		
6.68	**2.22**	**3435**	210	720	19,601	129		
7.62	**4**	**3535**	184	632	21,577	129		
6.79	**6**	**3635**	206	678	34,389	129		
7.85	**1.31**	**3335**	178	613	9,593	129		
7.63	**2.54**	**3435**	183	630	19,732	129		
8.03	**4**	**3535**	174	599	21,687	129		
8.77	**1.46**	**3333**	160	557	9,883	95-115		
9.12	**3.03**	**3433**	154	535	19,872	97-117		
10.2	**1.70**	**3333**	137	477	10,289	95-115		
10.1	**3.35**	**3433**	139	484	19,948	97-117		
11.3	**1.05**	**3233**	124	432	7,885	93-113		
11.2	**1.86**	**3333**	125	435	10,499	95-115		
11.3	**3.74**	**3433**	124	433	20,023	97-117		
12.4	**1.15**	**3233**	113	393	7,999	93-113		
12.4	**2.06**	**3333**	113	394	10,701	95-115		
13.0	**4**	**3433**	108	376	20,100	97-117		
14.4	**1.33**	**3233**	97.2	340	8,154	93-113		
14.5	**2.40**	**3333**	96.4	336	10,983	95-115		
14.7	**5**	**3433**	95.4	333	20,168	97-117		
16.2	**1.49**	**3233**	86.7	303	8,262	93-113		
16.3	**2.70**	**3333**	85.7	299	11,162	95-115		
16.0	**5**	**3433**	87.7	306	20,206	97-117		
18.0	**1.66**	**3233**	77.7	272	8,353	93-113		
18.2	**3.00**	**3333**	77	268	11,306	95-115		
18.1	**6**	**3433**	77.5	270	20,258	97-117		
20.6	**1.89**	**3233**	68	238	8,452	93-113		
20.7	**3.40**	**3333**	67.8	236	11,458	95-115		
20.3	**7**	**3433**	69	241	20,300	97-117		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.55 kW - 50 Hz				LSES 71 L IFT/IE2 LS 71 L FFB1[1]				
21.8	**2.00**	**3233**	64.3	225	8,490	93-113		
22.9	**3.77**	**3333**	61	213	11,568	95-115		
22.6	**7**	**3433**	61.9	216	20,336	97-117		
25.9	**2.36**	**3233**	54.1	189	8,592	93-113		
26.0	**4**	**3333**	53.8	188	11,686	95-115		
24.6	**8**	**3433**	57	199	20,361	97-117		
27.5	**2.51**	**3233**	51	178	8,623	93-113		
27.8	**5**	**3333**	50.3	175	11,741	95-115		
27.7	**9**	**3433**	50.6	177	20,392	97-117		
31.0	**2.82**	**3233**	45.2	158	8,680	93-113		
32.1	**5**	**3333**	43.7	152	11,848	95-115		
31.8	**10**	**3433**	44.1	154	20,426	97-117		
35.8	**1.68**	**3132**	39.1	139	5,841	89-109		
35.4	**3.22**	**3233**	39.5	138	8,735	93-113		
36.5	**6**	**3333**	38.3	134	11,933	95-115		
36.9	**11**	**3433**	38	132	20,457	97-117		
39.4	**1.84**	**3132**	35.6	126	5,888	89-109		
38.1	**2.78**	**3232**	36.8	130	8,264	91-111		
37.8	**5**	**3333**	37.1	129	11,953	95-115		
40.1	**11**	**3433**	35	122	20,472	97-117		
45.6	**2.05**	**3132**	30.7	109	5,955	89-109		
44.4	**3.24**	**3232**	31.5	111	8,316	91-111		
42.8	**6**	**3333**	32.7	114	12,023	95-115		
45.1	**12**	**3433**	31	108	20,050	97-117		
51.1	**2.25**	**3132**	27.4	97	6,001	89-109		
48.7	**3.55**	**3232**	28.7	102	8,343	91-111		
45.8	**7**	**3333**	30.6	107	12,056	95-115		
51.8	**14**	**3433**	27	94	19,193	97-117		
57.0	**2.42**	**3132**	24.6	87	6,042	89-109		
53.8	**3.92**	**3232**	26	92	8,369	91-111		
58.1	**5**	**3233**	24.1	84	8,887	93-113		
52.8	**8**	**3333**	26.5	93	12,119	95-115		
65.2	**2.66**	**3132**	21.5	76	6,085	89-109		
63.0	**5**	**3232**	22.2	78	8,405	91-111		
61.2	**5**	**3233**	22.9	80	8,899	93-113		
60.1	**9**	**3333**	23.3	81	12,170	95-115		
68.9	**2.74**	**3132**	20.3	72	6,101	89-109		
70.9	**5**	**3232**	19.7	70	8,429	91-111		
81.9	**3.10**	**3132**	17.1	61	6,141	89-109		
78.9	**6**	**3232**	17.7	63	8,448	91-111		
86.9	**3.19**	**3132**	16.1	57	6,156	89-109		
89.6	**7**	**3232**	15.6	55	8,468	91-111		
98.0	**3.46**	**3132**	14.3	51	6,178	89-109		
100	**7**	**3232**	14.1	50	8,482	91-111		
112	**3.77**	**3132**	12.5	44	6,203	89-109		
113	**8**	**3232**	12.4	44	8,498	91-111		
127	**4**	**3132**	11	39	6,222	89-109		
121	**9**	**3232**	11.6	41	8,506	91-111		
139	**10**	**3232**	10.1	36	8,520	91-111		
184	**5**	**3132**	7.62	27	6,265	89-109		
194	**5**	**3132**	7.23	26	6,269	89-109		

[1] motor not concerned by the IE

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.75 kW - 50 Hz		LSES 80 LG IFT/IE3 LS 80 L FFB1 IFT/NIE - LSES 80 LG FFB1 IFT/IE3					**1.31 kW - 87 Hz***	
0.36	**0.81**	**3835**	3,900	18,253	38,943	129		
0.39	**0.89**	**3835**	3,560	16,646	40,581	129		
0.43	**0.98**	**3835**	3,230	15,080	42,163	129		
0.51	**1.15**	**3835**	2,750	12,865	44,375	129		
0.51	**2.08**	**3935**	2,770	12,868	80,849	129		
0.54	**0.83**	**3735**	2,590	12,098	20,248	129		
0.56	**1.25**	**3835**	2,520	11,768	45,460	129		
0.60	**2.46**	**3935**	2,330	10,856	84,898	129		
0.61	**0.95**	**3735**	2,280	10,659	23,463	129		
0.65	**1.46**	**3835**	2,160	10,077	47,118	129		
0.67	**2.73**	**3935**	2,100	9,777	87,012	129		
0.66	**1.01**	**3735**	2,130	9,975	24,987	129		
0.71	**1.60**	**3835**	1,970	9,190	47,981	129		
0.74	**3.02**	**3935**	1,900	8,851	88,808	129		
0.76	**1.17**	**3735**	1,850	8,654	27,918	129		
0.79	**1.77**	**3835**	1,780	8,325	48,817	129		
0.80	**3.28**	**3935**	1,750	8,155	90,156	129		
0.81	**1.25**	**3735**	1,720	8,044	29,267	129		
0.92	**2.07**	**3835**	1,520	7,103	49,993	129		
0.93	**3.81**	**3935**	1,510	7,009	92,384	129		
0.94	**1.45**	**3735**	1,490	6,979	31,616	129		
1.04	**2.33**	**3835**	1,350	6,313	50,747	129		
1.04	**1.39**	**3735**	1,350	6,310	33,085	129		
1.15	**2.60**	**3835**	1,210	5,674	51,354	129		
1.30	**0.86**	**3635**	1,070	5,012	22,848	129		
1.21	**1.62**	**3735**	1,160	5,404	35,071	129		
1.31	**2.95**	**3835**	1,070	4,995	51,998	129		
1.43	**0.94**	**3635**	979	4,570	24,021	129		
1.33	**1.78**	**3735**	1,050	4,928	36,111	129		
1.46	**3.27**	**3835**	962	4,498	52,467	129		
1.58	**1.04**	**3635**	887	4,140	25,162	129		
1.47	**1.96**	**3735**	955	4,465	37,122	129		
1.65	**3.72**	**3835**	848	3,963	52,970	129		
1.85	**1.22**	**3635**	757	3,531	26,780	129		
1.72	**2.30**	**3735**	815	3,809	38,550	129		
1.76	**3.97**	**3835**	793	3,709	53,209	129		
2.12	**0.83**	**3535**	661	3,120	12,900	129	3.78	0.85
2.08	**1.37**	**3635**	673	3,139	27,824	129		
1.93	**2.59**	**3735**	724	3,386	39,470	129		
2.03	**5**	**3835**	688	3,217	53,668	129		
2.36	**0.92**	**3535**	592	2,796	14,051	129	4.22	0.95
2.31	**1.52**	**3635**	605	2,821	28,671	129		
2.15	**2.88**	**3735**	651	3,043	40,213	129		
2.32	**5**	**3835**	604	2,823	54,036	129		
2.70	**1.06**	**3535**	518	2,446	15,283	129	4.83	1.09
2.63	**1.73**	**3635**	532	2,482	29,572	129		
2.44	**3.27**	**3735**	573	2,679	41,002	129		
2.62	**6**	**3835**	534	2,499	54,338	129		
2.86	**1.12**	**3535**	490	2,313	15,752	129	5.11	1.15
2.92	**1.92**	**3635**	479	2,235	30,231	129		
2.71	**3.63**	**3735**	516	2,412	41,580	129		
2.99	**7**	**3835**	469	2,192	54,623	129		
3.39	**1.33**	**3535**	413	1,948	17,031	129	6.06	1.37
3.31	**2.18**	**3635**	422	1,969	30,941	129		
3.08	**4**	**3735**	455	2,125	42,200	129		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.75 kW - 50 Hz		LSES 80 LG IFT/IE3 LS 80 L FFB1 IFT/NIE - LSES 80 LG FFB1 IFT/IE3					**1.31 kW - 87 Hz***	
3.61	**0.88**	**3435**	387	1,829	18,012	129	6.46	0.91
3.60	**1.41**	**3535**	389	1,835	17,423	129	6.43	1.45
3.54	**2.33**	**3635**	395	1,842	31,279	129		
3.29	**4**	**3735**	425	1,989	42,495	129		
3.83	**0.94**	**3435**	365	1,723	18,165	129	6.85	0.97
4.06	**1.59**	**3535**	345	1,627	18,148	129	7.26	1.64
4.08	**2.69**	**3635**	343	1,598	31,931	129		
3.79	**5**	**3735**	369	1,725	43,063	129		
4.44	**1.08**	**3435**	315	1,487	18,505	129	7.94	1.11
4.64	**1.81**	**3535**	302	1,423	18,853	129	8.30	1.87
4.14	**3.01**	**3635**	339	1,428	32,384	129		
4.24	**5**	**3735**	330	1,542	43,459	129		
4.70	**1.14**	**3435**	298	1,406	18,621	129	8.40	1.17
5.28	**2.06**	**3535**	265	1,253	19,444	129	9.43	2.13
4.77	**3.42**	**3635**	294	1,257	32,842	129		
4.84	**6**	**3735**	289	1,353	43,866	129		
5.58	**1.35**	**3435**	251	1,184	18,934	129	10.0	1.39
5.43	**3.80**	**3635**	258	1,131	33,178	129		
6.56	**0.79**	**3335**	213	1,007	7,428	129	11.7	0.82
5.92	**1.43**	**3435**	236	1,116	19,031	129	10.6	1.48
6.01	**4**	**3635**	233	997	33,538	129		
6.96	**0.84**	**3335**	201	949	7,761	129	12.4	0.87
6.68	**1.62**	**3435**	210	989	19,212	129	11.9	1.67
7.62	**2.98**	**3535**	184	867	20,770	129	13.6	3.07
6.79	**5**	**3635**	206	932	33,710	129		
7.85	**0.95**	**3335**	178	841	8,365	129	14.0	0.98
7.63	**1.85**	**3435**	183	865	19,390	129	13.6	1.91
8.03	**3.14**	**3535**	174	823	20,922	129	14.4	3.24
7.26	**5**	**3635**	193	808	33,709	129		
8.77	**1.06**	**3333**	160	766	8,778	95-115	15.7	1.09
9.12	**2.20**	**3433**	154	736	19,577	97-117	16.3	2.25
8.82	**3.52**	**3533**	159	758	21,143	99-119	15.8	3.58
10.2	**1.24**	**3333**	137	656	9,367	95-115	18.3	1.27
10.1	**2.44**	**3433**	139	665	19,681	97-117	18.0	2.49
10.5	**4.16**	**3533**	134	640	21,549	99-119	18.7	4
11.2	**1.36**	**3333**	125	598	9,669	95-115	20.1	1.39
11.3	**2.72**	**3433**	124	595	19,784	97-117	20.2	2.78
11.6	**4.61**	**3533**	121	576	21,766	99-119	20.7	5
12.4	**0.84**	**3233**	113	541	7,567	93-113	22.2	0.86
12.4	**1.49**	**3333**	113	542	9,959	95-115	22.1	1.53
13.0	**3.12**	**3433**	108	517	19,899	97-117	23.2	3.19
12.8	**5**	**3533**	109	522	21,953	99-119	22.9	5
14.4	**0.97**	**3233**	97.2	467	7,783	93-113	25.7	0.99
14.5	**1.75**	**3333**	96.4	462	10,362	95-115	26.0	1.78
14.7	**3.52**	**3433**	95.4	457	19,987	97-117	26.2	3.60
13.9	**5**	**3533**	101	481	22,092	99-119	24.9	6
16.2	**1.08**	**3233**	86.7	417	7,929	93-113	28.9	1.11
16.3	**1.96**	**3333**	85.7	411	10,617	95-115	29.2	2.00
16.0	**3.83**	**3433**	87.7	421	20,041	97-117	28.5	3.87
16.2	**6**	**3533**	86.5	413	22,323	99-119	28.9	6
18.0	**1.21**	**3233**	77.7	373	8,058	93-113	32.2	1.23
18.2	**2.18**	**3333**	77	369	10,821	95-115	32.5	2.22
18.1	**4**	**3433**	77.5	372	20,111	97-117	32.3	4
18.9	**7**	**3533**	73.9	353	22,527	99-119	33.8	7
20.6	**1.37**	**3233**	68	327	8,192	93-113	36.8	1.40
20.7	**2.47**	**3333**	67.8	325	11,036	95-115	36.9	2.52
20.3	**5**	**3433**	69	331	20,170	97-117	36.3	5
20.9	**8**	**3533**	66.9	320	22,640	99-119	37.4	8

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.75 kW - 50 Hz		LSES 80 LG IFT/IE3 LS 80 L FFB1 IFT/NIE - LSES 80 LG FFB1 IFT/IE3					**1.31 kW - 87 Hz***	
21.8	**1.45**	**3233**	64.3	309	8,245	93-113	38.9	1.48
22.9	**2.74**	**3333**	61	293	11,191	95-115	41.0	2.79
22.6	**5**	**3433**	61.9	297	19,943	97-117	40.4	5
22.7	**9**	**3533**	61.7	295	22,726	99-119	40.6	9
25.9	**1.72**	**3233**	54.1	260	8,388	93-113	46.2	1.75
26.0	**3.10**	**3333**	53.8	258	11,356	95-115	46.5	3.16
24.6	**6**	**3433**	57	273	19,475	97-117	43.9	5
26.4	**10**	**3533**	53	253	22,866	99-119	47.2	10
27.5	**1.82**	**3233**	51	245	8,431	93-113	49.1	1.86
27.8	**3.31**	**3333**	50.3	241	11,434	95-115	49.7	3.37
27.7	**7**	**3433**	50.6	243	18,815	97-117	49.4	6
31.0	**2.05**	**3233**	45.2	217	8,513	93-113	55.4	2.09
32.1	**3.80**	**3333**	43.7	209	11,584	95-115	57.3	3.86
31.8	**7**	**3433**	44.1	211	18,063	97-117	56.7	6
35.8	**1.22**	**3132**	39.1	190	5,646	89-109	64.1	1.11
35.4	**2.34**	**3233**	39.5	190	8,590	93-113	63.3	2.35
36.5	**4**	**3333**	38.3	184	11,703	95-115	65.3	4
36.9	**8**	**3433**	38	182	17,277	97-117	65.9	7
39.4	**1.34**	**3132**	35.6	173	5,709	89-109	70.3	1.19
38.1	**2.02**	**3232**	36.8	179	8,129	91-111	68.0	2.08
37.8	**3.97**	**3333**	37.1	178	11,730	95-115	67.5	4
40.1	**8**	**3433**	35	168	16,850	97-117	71.6	7
45.6	**1.50**	**3132**	30.7	150	5,798	89-109	81.4	1.31
44.4	**2.36**	**3232**	31.5	153	8,201	91-111	79.4	2.43
42.8	**5**	**3333**	32.7	157	11,828	95-115	76.6	5
45.1	**9**	**3433**	31	149	16,255	97-117	80.6	8
51.1	**1.64**	**3132**	27.4	133	5,860	89-109	91.3	1.42
48.7	**2.59**	**3232**	28.7	140	8,238	91-111	87.1	2.67
45.8	**5**	**3333**	30.6	147	11,874	95-115	81.8	5
51.8	**10**	**3433**	27	130	15,579	97-117	92.6	9
57.0	**1.76**	**3132**	24.6	120	5,914	89-109	102	1.53
53.8	**2.85**	**3232**	26	126	8,274	91-111	96.1	2.95
58.1	**3.80**	**3233**	24.1	116	7,849	93-113	104	3.39
52.8	**6**	**3333**	26.5	127	11,962	95-115	94.3	6
65.2	**1.94**	**3132**	21.5	105	5,972	89-109	116	1.68
63.0	**3.35**	**3232**	22.2	108	8,325	91-111	113	3.45
61.2	**3.98**	**3233**	22.9	110	7,740	93-113	109	3.52
60.1	**6**	**3333**	23.3	112	12,033	95-115	107	6
68.9	**1.99**	**3132**	20.3	99	5,995	89-109	123	1.73
70.9	**3.76**	**3232**	19.7	96	8,358	91-111	127	3.88
81.9	**2.26**	**3132**	17.1	83	6,057	89-109	146	1.96
78.9	**4**	**3232**	17.7	86	8,384	91-111	141	4
86.9	**2.32**	**3132**	16.1	79	6,076	89-109	155	2.01
89.6	**5**	**3232**	15.6	76	8,412	91-111	160	5
98.0	**2.52**	**3132**	14.3	70	6,108	89-109	175	2.18
100	**5**	**3232**	14.1	68	8,433	91-111	178	5
112	**2.75**	**3132**	12.5	61	6,141	89-109	200	2.38
113	**6**	**3232**	12.4	60	8,454	91-111	202	6
127	**2.98**	**3132**	11	54	6,167	89-109	227	2.59
121	**6**	**3232**	11.6	56	8,465	91-111	216	7
139	**7**	**3232**	10.1	49	8,485	91-111	249	8
159	**8**	**3232**	8.83	43	8,501	91-111	283	9
184	**3.78**	**3132**	7.62	37	6,229	89-109	328	3.28
194	**3.89**	**3132**	7.23	35	6,236	89-109	346	3.38

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.9 kW - 50 Hz		LSES 80 LG IFT/IE3 LS 80 L FFB1 IFT/NIE - LSES 80 LG FFB1 IFT/IE3					**1.57 kW - 87 Hz***	
0.44	**0.83**	**3835**	3,230	17,830	39,376	129		
0.52	**0.97**	**3835**	2,750	15,211	42,032	129		
0.52	**1.76**	**3935**	2,770	15,226	75,799	129		
0.57	**1.06**	**3835**	2,520	13,913	43,332	129		
0.61	**2.08**	**3935**	2,330	12,845	80,896	129		
0.63	**0.80**	**3735**	2,280	12,603	19,114	129		
0.66	**1.24**	**3835**	2,160	11,915	45,316	129		
0.68	**2.31**	**3935**	2,100	11,568	83,485	129		
0.67	**0.86**	**3735**	2,130	11,794	20,927	129		
0.72	**1.36**	**3835**	1,970	10,866	46,347	129		
0.75	**2.55**	**3935**	1,900	10,473	85,651	129		
0.77	**0.99**	**3735**	1,850	10,232	24,415	129		
0.80	**1.50**	**3835**	1,780	9,844	47,346	129		
0.81	**2.77**	**3935**	1,750	9,650	87,259	129		
0.83	**1.06**	**3735**	1,720	9,511	26,019	129		
0.94	**1.75**	**3835**	1,520	8,398	48,748	129		
0.95	**3.22**	**3935**	1,510	8,293	89,889	129		
0.95	**1.22**	**3735**	1,490	8,251	28,809	129		
1.06	**1.97**	**3835**	1,350	7,465	49,646	129		
1.06	**1.17**	**3735**	1,350	7,461	30,554	129		
1.17	**2.19**	**3835**	1,210	6,709	50,369	129		
1.23	**1.37**	**3735**	1,160	6,389	32,912	129		
1.33	**2.49**	**3835**	1,070	5,906	51,134	129		
1.45	**0.80**	**3635**	979	5,404	21,810	129		
1.35	**1.50**	**3735**	1,050	5,827	34,145	129		
1.48	**2.77**	**3835**	962	5,318	51,693	129		
1.61	**0.88**	**3635**	887	4,895	23,157	129		
1.49	**1.66**	**3735**	955	5,279	35,345	129		
1.68	**3.14**	**3835**	848	4,686	52,290	129		
1.88	**1.03**	**3635**	757	4,176	25,067	129		
1.75	**1.95**	**3735**	815	4,503	37,038	129		
1.80	**3.36**	**3835**	793	4,385	52,573	129		
2.12	**1.16**	**3635**	673	3,712	26,300	129		
1.97	**2.19**	**3735**	724	4,003	38,128	129		
2.07	**3.87**	**3835**	688	3,804	53,119	129		
2.41	**0.78**	**3535**	592	3,306	12,241	129		
2.36	**1.29**	**3635**	605	3,335	27,301	129		
2.19	**2.44**	**3735**	651	3,598	39,009	129		
2.36	**4**	**3835**	604	3,338	53,556	129		
2.75	**0.89**	**3535**	518	2,892	13,709	129		
2.68	**1.46**	**3635**	532	2,936	28,365	129		
2.49	**2.77**	**3735**	573	3,167	39,944	129		
2.67	**5**	**3835**	534	2,954	53,914	129		
2.91	**0.94**	**3535**	490	2,735	14,267	129	5.09	0.78
2.97	**1.63**	**3635**	479	2,643	29,144	129		
2.76	**3.07**	**3735**	516	2,852	40,628	129		
3.04	**6**	**3835**	469	2,592	54,252	129		
3.45	**1.12**	**3535**	413	2,303	15,788	129	6.04	0.93
3.37	**1.85**	**3635**	422	2,329	29,982	129		
3.14	**3.49**	**3735**	455	2,513	41,362	129		
3.66	**1.19**	**3535**	389	2,170	16,254	129	6.41	0.98
3.61	**1.97**	**3635**	395	2,179	30,382	129		
3.35	**3.73**	**3735**	425	2,351	41,711	129		
3.90	**0.79**	**3435**	365	2,037	17,712	129		
4.13	**1.34**	**3535**	345	1,923	17,116	129	7.24	1.11
4.16	**2.28**	**3635**	343	1,890	31,152	129		
3.86	**4**	**3735**	369	2,040	42,384	129		
4.52	**0.91**	**3435**	315	1,759	18,113	129		
4.73	**1.53**	**3535**	302	1,683	17,953	129	8.27	1.27
4.22	**2.55**	**3635**	339	1,689	31,688	129		
4.32	**5**	**3735**	330	1,823	42,852	129		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.9 kW - 50 Hz		LSES 80 LG IFT/IE3 LS 80 L FFB1 IFT/NIE - LSES 80 LG FFB1 IFT/IE3					**1.57 kW - 87 Hz***	
4.78	**0.96**	**3435**	298	1,663	18,251	129	8.37	0.80
5.37	**1.74**	**3535**	265	1,481	18,654	129	9.40	1.44
4.85	**2.89**	**3635**	294	1,487	32,229	129		
4.92	**5**	**3735**	289	1,600	43,334	129		
5.68	**1.14**	**3435**	251	1,400	18,630	129	9.94	0.95
5.52	**3.21**	**3635**	258	1,338	32,625	129		
6.03	**1.21**	**3435**	236	1,319	18,744	129	10.6	1.00
6.12	**3.65**	**3635**	233	1,179	33,051	129		
6.80	**1.37**	**3435**	210	1,169	18,956	129	11.9	1.13
7.75	**2.52**	**3535**	184	1,025	20,226	129	13.6	2.08
6,91	**3.90**	**3635**	206	1,103	33,254	129		
7.99	**0.80**	**3335**	178	995	7,501	129	14.0	0.81
7.77	**1.56**	**3435**	183	1,023	19,164	129	13.6	1.29
8.17	**2.65**	**3535**	174	973	20,407	129	14.3	2.19
7.40	**5**	**3635**	193	956	33,645	129		
8.92	**0.90**	**3333**	160	906	8,003	95-115	15.6	0.89
9.28	**1.86**	**3433**	154	871	19,382	97-117	16.2	1.53
8.98	**2.97**	**3533**	159	898	20,665	99-119	15.7	2.42
10.4	**1.05**	**3333**	137	776	8,723	95-115	18.2	0.86
10.3	**2.06**	**3433**	139	787	19,504	97-117	18.0	1.69
10.6	**3.51**	**3533**	134	757	21,146	99-119	18.6	2.85
11.4	**1.15**	**3333**	125	708	9,091	95-115	20.0	0.94
11.5	**2.30**	**3433**	124	704	19,624	97-117	20.1	1.88
11.8	**3.89**	**3533**	121	682	21,404	99-119	20.7	3.15
12.6	**1.26**	**3333**	113	641	9,444	95-115	22.1	1.03
13.2	**2.64**	**3433**	108	612	19,760	97-117	23.1	2.16
13.1	**4**	**3533**	109	618	21,625	99-119	22.8	3.47
14.7	**0.82**	**3233**	97.2	553	7,532	93-113	25.6	0.81
14.8	**1.48**	**3333**	96.4	547	9,933	95-115	25.9	1.21
14.9	**2.98**	**3433**	95.4	541	19,863	97-117	26.2	2.43
14.2	**5**	**3533**	101	569	21,791	99-119	24.8	3.76
16.4	**0.91**	**3233**	86.7	493	7,707	93-113	28.7	0.91
16.6	**1.66**	**3333**	85.7	486	10,241	95-115	29.1	1.36
16.3	**3.23**	**3433**	87.7	498	19,928	97-117	28.4	2.62
16.5	**5**	**3533**	86.5	489	22,064	99-119	28.8	4
18.3	**1.02**	**3233**	77.7	442	7,856	93-113	32.1	0.83
18.5	**1.84**	**3333**	77	437	10,488	95-115	32.4	1.51
18.4	**3.65**	**3433**	77.5	440	20,013	97-117	32.2	2.90
19.3	**6**	**3533**	73.9	418	22,305	99-119	33.7	6
21.0	**1.16**	**3233**	68	386	8,020	93-113	36.7	0.95
21.0	**2.09**	**3333**	67.8	385	10,746	95-115	36.8	1.70
20.7	**4**	**3433**	69	392	20,083	97-117	36.1	3.18
21.3	**7**	**3533**	66.9	379	22,440	99-119	37.2	7
22.2	**1.23**	**3233**	64.3	365	8,081	93-113	38.8	1.00
23.4	**2.31**	**3333**	61	346	10,933	95-115	40.9	1.89
23.0	**5**	**3433**	61.9	351	19,669	97-117	40.3	3.43
23.1	**7**	**3533**	61.7	349	22,541	99-119	40.4	7
26.3	**1.45**	**3233**	54.1	308	8,248	93-113	46.1	1.19
26.5	**2.62**	**3333**	53.8	305	11,131	95-115	46.4	2.14
25.0	**5**	**3433**	57	324	19,225	97-117	43.7	3.64
26.9	**8**	**3533**	53	300	22,708	99-119	47.0	8
28.0	**1.54**	**3233**	51	290	8,300	93-113	48.9	1.26
28.3	**2.80**	**3333**	50.3	286	11,225	95-115	49.6	2.28
28.2	**6**	**3433**	50.6	287	18,593	97-117	49.3	3.95

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
0.9 kW - 50 Hz		LSES 80 LG IFT/IE3 LS 80 L FFB1 IFT/NIE - LSES 80 LG FFB1 IFT/IE3					**1.57 kW - 87 Hz***	
31.5	**1.73**	**3233**	45.2	257	8,396	93-113	55.2	1.42
32.6	**3.21**	**3333**	43.7	248	11,404	95-115	57.1	2.61
32.3	**6**	**3433**	44.1	250	17,874	97-117	56.6	4
36.5	**1.03**	**3132**	39.1	225	5,520	89-109	63.7	0.92
36.0	**1.98**	**3233**	39.5	225	8,490	93-113	63.1	1.59
37.2	**3.65**	**3333**	38.3	217	11,547	95-115	65.1	2.91
37.5	**6**	**3433**	38	215	17,115	97-117	65.7	4.68
40.1	**1.13**	**3132**	35.6	205	5,593	89-109	70.0	0.98
38.7	**1.71**	**3232**	36.8	211	8,024	91-111	67.7	1.71
38.4	**3.36**	**3333**	37.1	210	11,579	95-115	67.3	2.73
40.8	**7**	**3433**	35	198	16,704	97-117	71.4	5
46.4	**1.26**	**3132**	30.7	177	5,696	89-109	81.2	0.89
45.2	**1.99**	**3232**	31.5	181	8,109	91-111	79.2	1.65
43.6	**3.80**	**3333**	32.7	185	11,695	95-115	76.3	3.09
45.9	**8**	**3433**	31	176	16,125	97-117	80.4	5
52.0	**1.38**	**3132**	27.4	158	5,767	89-109	91.0	0.97
49.6	**2.19**	**3232**	28.7	165	8,155	91-111	86.8	1.81
46.6	**4**	**3333**	30.6	174	11,750	95-115	81.6	3.29
52.7	**8**	**3433**	27	153	15,474	97-117	92	7
58.0	**1.48**	**3132**	24.6	141	5,830	89-109	102	1.04
54.7	**2.41**	**3232**	26	150	8,200	91-111	95.8	1.99
59.1	**3.21**	**3233**	24.1	137	7,687	93-113	103	2.30
53.7	**5**	**3333**	26.5	151	11,856	95-115	93.9	5
66.3	**1.63**	**3132**	21.5	124	5,898	89-109	116	1.14
64.2	**2.83**	**3232**	22.2	128	8,263	91-111	112	2.34
62.3	**3.36**	**3233**	22.9	130	7,586	93-113	109	2.39
61.2	**5**	**3333**	23.3	132	11,940	95-115	107	4
70.2	**1.68**	**3132**	20.3	117	5,924	89-109	123	1.17
72.2	**3.18**	**3232**	19.7	113	8,303	91-111	126	2.63
83.3	**1.90**	**3132**	17.1	98	5,996	89-109	146	1.33
80.3	**3.54**	**3232**	17.7	102	8,334	91-111	141	2.93
88.4	**1.95**	**3132**	16.1	93	6,019	89-109	155	1.37
91.2	**4**	**3232**	15.6	90	8,368	91-111	160	3.32
100	**2.12**	**3132**	14.3	82	6,061	89-109	175	1.48
101	**4**	**3232**	14.1	81	8,393	91-111	177	3.69
114	**2.31**	**3132**	12.5	72	6,101	89-109	200	1.62
115	**5**	**3232**	12.4	71	8,422	91-111	201	4
130	**2.51**	**3132**	11	63	6,134	89-109	227	1.75
123	**5**	**3232**	11.6	67	8,436	91-111	215	4
142	**6**	**3232**	10.1	58	8,459	91-111	248	5
161	**7**	**3232**	8.83	51	8,479	91-111	283	6
187	**3.18**	**3132**	7.62	44	6,203	89-109	327	2.22
197	**3.27**	**3132**	7.23	42	6,211	89-109	345	2.29

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.1 kW - 50 Hz		LSES 90 SL IFT/IE3 LS 90 SL FFB2 IFT/NIE - LSES 90 SL FFB2 IFT/IE3					**1.91 kW - 87 Hz***	
0.52	**0.79**	**3835**	2,750	18,645	38,541	129		
0.52	**1.43**	**3935**	2,770	18,679	67,466	129		
0.61	**1.70**	**3935**	2,330	15,758	74,600	129		
0.66	**1.01**	**3835**	2,160	14,605	42,640	129		
0.68	**1.88**	**3935**	2,100	14,191	78,067	129		
0.72	**1.11**	**3835**	1,970	13,319	43,924	129		
0.75	**2.08**	**3935**	1,900	12,848	80,891	129		
0.77	**0.80**	**3735**	1,850	12,542	19,250	129		
0.80	**1.22**	**3835**	1,780	12,066	45,166	129		
0.81	**2.26**	**3935**	1,750	11,838	82,945	129		
0.83	**0.87**	**3735**	1,720	11,658	21,232	129		
0.94	**1.43**	**3835**	1,520	10,294	46,907	129		
0.95	**2.63**	**3935**	1,510	10 174	86,237	129		
0.95	**1.00**	**3735**	1,490	10,114	24,677	129		
1.06	**1.61**	**3835**	1,350	9,150	48,020	129		
1.01	**2.82**	**3935**	1,400	9,480	87,588	129		
1.17	**1.79**	**3835**	1,210	8,224	48,915	129		
1.16	**3.22**	**3935**	1,230	8,302	89,872	129		
1.23	**1.12**	**3735**	1,160	7,832	29,736	129		
1.33	**2.03**	**3835**	1,070	7,240	49,862	129		
1.31	**3.64**	**3935**	1,090	7,337	91,744	129		
1.35	**1.23**	**3735**	1,050	7,142	31,256	129		
1.48	**2.26**	**3835**	962	6,518	50,552	129		
1.47	**4**	**3935**	968	6,534	93,314	129		
1.49	**1.35**	**3735**	955	6,470	32,734	129		
1.68	**2.56**	**3835**	848	5,743	51,289	129		
1.64	**5**	**3935**	867	5,854	94,657	129		
1.88	**0.84**	**3635**	757	5,119	22,564	129		
1.75	**1.59**	**3735**	815	5,520	34,817	129		
1.80	**2.74**	**3835**	793	5,375	51,639	129		
1.92	**5**	**3935**	742	5,010	96,346	129		
2.12	**0.94**	**3635**	673	4,550	24,073	129		
1.97	**1.79**	**3735**	724	4,907	36,158	129		
2.07	**3.16**	**3835**	688	4,663	52,311	129		
2.00	**6**	**3935**	713	4,818	96,735	129		
2.36	**1.05**	**3635**	605	4,089	25,297	129		
2.19	**1.99**	**3735**	651	4,410	37,241	129		
2.36	**3.60**	**3835**	604	4,091	52,850	129		
2.28	**6**	**3935**	625	4,219	97,960	129		
2.68	**1.19**	**3635**	532	3,599	26,599	129		
2.49	**2.26**	**3735**	573	3,882	38,390	129		
2.67	**4**	**3835**	534	3,621	53,290	129		
2.58	**7**	**3935**	552	3,729	98,978	129		
2.97	**1.33**	**3635**	479	3,241	27,553	129		
2.76	**2.51**	**3735**	516	3,495	39,231	129		
3.04	**5**	**3835**	469	3,177	53,706	129		
2.90	**8**	**3935**	492	3,320	99,673	129		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.1 kW - 50 Hz		LSES 90 SL IFT/IE3 LS 90 SL FFB2 IFT/NIE - LSES 90 SL FFB2 IFT/IE3					**1.91 kW - 87 Hz***	
3.45	**0.91**	**3535**	413	2,823	13,955	129	6.04	0.93
3.37	**1.51**	**3635**	422	2,855	28,579	129		
3.14	**2.84**	**3735**	455	3,080	40,133	129		
3.23	**9**	**3935**	441	2,975	100,007	129		
3.66	**0.97**	**3535**	389	2,660	14,531	129	6.41	0.98
3.61	**1.61**	**3635**	395	2,672	29,068	129		
3.35	**3.04**	**3735**	425	2,882	40,562	129		
3.63	**10**	**3935**	392	2,648	100,326	129		
4.13	**1.09**	**3535**	345	2,357	15,596	129	7.24	1.11
4.16	**1.86**	**3635**	343	2,317	30,012	129		
3.86	**3.50**	**3735**	369	2,501	41,388	129		
4.25	**12**	**3935**	336	2,266	100,696	129		
4.73	**1.25**	**3535**	302	2,063	16,629	129	8.27	1.27
4.22	**2.08**	**3635**	339	2,071	30,668	129		
4.32	**3.78**	**3735**	330	2,235	41,963	129		
4.79	**7**	**3835**	297	2,015	54,788	129		
4.78	**0.79**	**3435**	298	2,038	17,711	129	8.37	0.80
5.37	**1.42**	**3535**	265	1,815	17,493	129	9.40	1.44
4.85	**2.36**	**3635**	294	1,823	31,331	129		
4.92	**4**	**3735**	289	1,961	42,555	129		
5.68	**0.93**	**3435**	251	1,716	18,175	129	9.94	0.95
6.08	**1.61**	**3535**	235	1,604	18,226	129	10.6	1.63
5.52	**2.62**	**3635**	258	1,641	31,816	129		
6.03	**0.99**	**3435**	236	1,617	18,317	129	10.6	1.00
6.85	**1.81**	**3535**	208	1,423	18,856	129	12.0	1.84
6.21	**2.97**	**3635**	233	1,446	32,338	129		
6.46	**10**	**3835**	221	1,495	55,269	129		
6.80	**1.12**	**3435**	210	1,433	18,582	129	11.9	1.13
7.75	**2.05**	**3535**	184	1,257	19,428	129	13.6	2.08
6.91	**3.18**	**3635**	206	1,353	32,586	129		
7.34	**11**	**3835**	194	1,315	55,435	129		
7.77	**1.28**	**3435**	183	1,254	18,836	129	13.6	1.29
8.17	**2.16**	**3535**	174	1,193	19,651	129	14.3	2.19
7.40	**3.67**	**3635**	193	1,173	33,066	129		
7.77	**7**	**3735**	184	1,243	44,102	129		
8.34	**13**	**3835**	171	1,158	55,580	129		
9.28	**1.52**	**3433**	154	1,069	19,099	97-117	16.2	1.53
8.98	**2.42**	**3533**	159	1,102	19,963	99-119	15.7	2.42
9.09	**3.95**	**3633**[1]	157	1,088	33,292	101-121		
9.40	**8**	**3733**[1]	152	1,049	44,521	103-123		
10.4	**0.85**	**3333**	137	952	7,745	95-115	18.2	0.86
10.3	**1.68**	**3433**	139	966	19,246	97-117	18.0	1.69
10.6	**2.86**	**3533**	134	930	20,555	99-119	18.6	2.85
10.6	**5**	**3633**[1]	135	934	33,705	101-121		
10.6	**9**	**3733**[1]	135	934	44,769	103-123		
11.4	**0.93**	**3333**	125	868	8,216	95-115	20.0	0.94
11.5	**1.87**	**3433**	124	864	19,392	97-117	20.1	1.88
11.8	**3.17**	**3533**	121	837	20,873	99-119	20.7	3.15
11.5	**5**	**3633**[1]	124	859	33,906	101-121		
11.6	**10**	**3733**[1]	123	852	44,945	103-123		
12.6	**1.03**	**3333**	113	787	8,666	95-115	22.1	1.03
13.2	**2.15**	**3433**	108	750	19,500	97-117	23.1	2.16
13.1	**3.49**	**3533**	109	758	21,144	99-119	22.8	3.47
13.2	**6**	**3633**[1]	108	748	34,202	101-121		
13.1	**11**	**3733**[1]	109	753	45,158	103-123		

[1]Ot 3633 and Ot 3733: integrated mounting MI obligatory for frame size 90

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.1 kW - 50 Hz		LSES 90 SL IFT/IE3 LS 90 SL FFB2 IFT/NIE - LSES 90 SL FFB2 IFT/IE3					**1.91 kW - 87 Hz***	
14.8	**1.20**	**3333**	96.4	671	9,287	95-115	25.9	1.21
14.9	**2.43**	**3433**	95.4	664	19,683	97-117	26.2	2.43
14.2	**3.78**	**3533**	101	698	21,348	99-119	24.8	3.76
15.0	**7**	**3633**[1]	95.1	660	34,438	101-121		
16.6	**1.35**	**3333**	85.7	596	9,677	95-115	29.1	1.36
16.3	**2.64**	**3433**	87.7	610	19,762	97-117	28.4	2.62
16.5	**4**	**3533**	86.5	600	21,600	99-119	28.8	4
16.7	**7**	**3633**[1]	85.3	592	34,619	101-121		
18.3	**0.83**	**3233**	77.7	541	7,567	93-113	32.1	0.83
18.5	**1.50**	**3333**	77	536	9,988	95-115	32.4	1.51
18.4	**2.98**	**3433**	77.5	539	19,866	97-117	32.2	2.90
17.7	**5**	**3533**	80.6	559	21,824	99-119	31.0	5
18.8	**8**	**3633**[1]	75.9	527	34,793	101-121		
18.4	**13**	**3733**[1]	77.3	535	45,626	103-123		
21.0	**0.95**	**3233**	68	474	7,763	93-113	36.7	0.95
21.0	**1.70**	**3333**	67.8	472	10,313	95-115	36.8	1.70
20.7	**3.33**	**3433**	69	480	19,845	97-117	36.1	3.18
20.2	**5**	**3533**	70.6	490	22,061	99-119	35.4	5
20.8	**9**	**3633**[1]	68.6	477	34,929	101-121		
20.7	**14**	**3733**[1]	68.8	476	45,752	103-123		
22.2	**1.00**	**3233**	64.3	448	7,839	93-113	38.8	1.00
23.4	**1.89**	**3333**	61	425	10,548	95-115	40.9	1.89
23.0	**3.71**	**3433**	61.9	431	19,297	97-117	40.3	3.43
22.9	**6**	**3533**	62.4	433	22,255	99-119	40.0	6
22.6	**9**	**3633**[1]	63.1	438	35,032	101-121		
22.7	**16**	**3733**[1]	62.8	434	45,842	103-123		
26.3	**1.19**	**3233**	54.1	377	8,046	93-113	46.1	1.19
26.5	**2.14**	**3333**	53.8	374	10,796	95-115	46.4	2.14
25.0	**4**	**3433**	57	397	18,878	97-117	43.7	3.64
25.7	**7**	**3533**	55.5	386	22,416	99-119	44.9	7
25.9	**11**	**3633**[1]	55	382	35,183	101-121		
25.7	**17**	**3733**[1]	55.5	384	45,950	103-123		
28.0	**1.26**	**3233**	51	355	8,100	93-113	48.9	1.26
28.3	**2.28**	**3333**	50.3	350	10,913	95-115	49.6	2.28
28.2	**5**	**3433**	50.6	352	18,285	97-117	49.3	3.95
28.6	**7**	**3533**	49.8	345	22,553	99-119	50.1	7
29.4	**12**	**3633**[1]	48.5	337	35,303	101-121		
31.5	**1.41**	**3233**	45.2	315	8,227	93-113	55.2	1.42
32.6	**2.62**	**3333**	43.7	304	11,137	95-115	57.1	2.61
32.3	**5**	**3433**	44.1	307	17,605	97-117	56.6	4
33.5	**9**	**3533**	42.6	296	22,722	99-119	58.6	9
32.8	**13**	**3633**[1]	43.5	302	35,396	101-121		
36.0	**1.61**	**3233**	39.5	276	8,287	93-113	63.1	1.59
37.2	**2.98**	**3333**	38.3	267	11,315	95-115	65.1	2.91
37.5	**5**	**3433**	38	264	16,880	97-117	65.7	5
37.3	**9**	**3533**	38.2	265	22,825	99-119	65.2	9
36.8	**15**	**3633**[1]	38.7	269	35,485	101-121		
41.0	**1.83**	**3233**	34.8	243	8,093	93-113	71.7	1.77
38.4	**2.74**	**3333**	37.1	258	11,355	95-115	67.3	2.73
40.8	**6**	**3433**	35	243	16,489	97-117	71.4	5
41.9	**10**	**3533**	34	236	22,924	99-119	73.3	10
46.4	**1.03**	**3132**	30.7	217	5,549	89-109	81.2	0.89
45.2	**1.63**	**3232**	31.5	222	8,002	91-111	79.2	1.65
46.3	**2.06**	**3233**	30.8	214	7,888	93-113	81.1	1.94
43.6	**3.10**	**3333**	32.7	227	11,499	95-115	76.3	3.09
45.9	**6**	**3433**	31	216	15,936	97-117	80.4	5
46.7	**12**	**3533**	30.5	212	23,007	99-119	81.8	11

[1] *Ot 3633 and Ot 3733: integrated mounting MI obligatory for frame size 90*

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.1 kW - 50 Hz		LSES 90 SL IFT/IE3 LS 90 SL FFB2 IFT/NIE - LSES 90 SL FFB2 IFT/IE3					**1.91 kW - 87 Hz***	
52.0	**1.12**	**3132**	27.4	193	5,635	89-109	91.0	0.97
49.6	**1.78**	**3232**	28.7	202	8,050	91-111	86.8	1.81
52.3	**2.32**	**3233**	27.3	190	7,689	93-113	91.5	2.11
46.6	**3.30**	**3333**	30.6	213	11,568	95-115	81.6	3.29
49.9	**7**	**3433**	28.6	199	15,554	97-117	87.3	6
58.0	**1.21**	**3132**	24.6	173	5,709	89-109	102	1.04
54.7	**1.97**	**3232**	26	183	8,109	91-111	95.8	1.99
59.1	**2.62**	**3233**	24.1	168	7,479	93-113	103	2.30
58.7	**5**	**3333**	24.3	169	11,771	95-115	103	4
57.6	**8**	**3433**	24.8	172	14,913	97-117	101	7
54.6	**13**	**3533**	26.1	181	23,111	99-119	95.6	13
66.3	**1.33**	**3132**	21.5	152	5,791	89-109	116	1.14
64.2	**2.31**	**3232**	22.2	156	8,186	91-111	112	2.34
62.3	**2.74**	**3233**	22.9	159	7,392	93-113	109	2.39
61.2	**4**	**3333**	23.3	162	11,803	95-115	107	4
70.2	**1.37**	**3132**	20.3	143	5,822	89-109	123	1.17
72.2	**2.59**	**3232**	19.7	139	8,234	91-111	126	2.63
70.0	**2.99**	**3233**	20.4	142	7,188	93-113	123	2.59
70.2	**5**	**3333**	20.3	141	11,797	95-115	123	5
71.1	**9**	**3433**	20.1	140	14,002	97-117	124	8
83.3	**1.55**	**3132**	17.1	121	5,909	89-109	146	1.33
80.3	**2.89**	**3232**	17.7	125	8,274	91-111	141	2.93
81.4	**9**	**3433**	17.5	122	13,440	97-117	142	8
88.4	**1.59**	**3132**	16.1	114	5,936	89-109	155	1.37
88.3	**3.55**	**3233**	16.1	112	6,782	93-113	160	3.32
91.2	**3.28**	**3232**	15.6	110	8,314	91-111	155	3.05
88.5	**6**	**3333**	16.1	112	11,018	95-115	155	5
100	**1.73**	**3132**	14.3	101	5,987	89-109	175	1.48
101	**3.64**	**3232**	14.1	99	8,345	91-111	177	3.69
96.5	**7**	**3333**	14.8	103	10,743	95-115	169	6
93.9	**10**	**3433**	15.2	106	12,866	97-117	164	9
114	**1.88**	**3132**	12.5	88	6,037	89-109	200	1.62
115	**4**	**3232**	12.4	87	8,379	91-111	201	4
116	**8**	**3333**	12.3	86	10,174	95-115	202	7
116	**12**	**3433**	12.3	86	12,057	97-117	203	10
130	**2.04**	**3132**	11	78	6,079	89-109	227	1.75
123	**4**	**3232**	11.6	82	8,393	91-111	215	4.48
147	**2.21**	**3132**	9.72	69	6,112	89-109	257	1.90
142	**5**	**3232**	10.1	71	8,425	91-111	248	5
146	**9**	**3333**	9.78	68	9,483	95-115	255	8
150	**14**	**3433**	9.51	66	11,127	97-117	262	12
165	**2.38**	**3132**	8.62	61	6,141	89-109	289	2.04
161	**6**	**3232**	8.83	62	8,449	91-111	283	6
187	**2.59**	**3132**	7.62	54	6,167	89-109	327	2.22
197	**2.67**	**3132**	7.23	51	6,178	89-109	345	2.29
221	**2.86**	**3132**	6.43	45	6,200	89-109	388	2.46
255	**9**	**3232**	5.6	39	8,510	91-111	446	9
279	**3.28**	**3132**	5.1	36	6,233	89-109	489	2.81

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.5 kW - 50 Hz			LS 90 L FFB2	LSES 90 LU IFT/IE3 IFT/NIE - LSES 90 LU FFB2 IFT/IE3			**2.61 kW - 87 Hz***	
0.52	**1.05**	**3935**	2,770	25,493	45,775	129		
0.61	**1.24**	**3935**	2,330	21,506	59,467	129		
0.68	**1.38**	**3935**	2,100	19,368	65,628	129		
0.73	**0.81**	**3835**	1,970	18,161	39,037	129		
0.75	**1.52**	**3935**	1,900	17,535	70,379	129		
0.80	**0.90**	**3835**	1,780	16,453	40,778	129		
0.82	**1.65**	**3935**	1,750	16,156	73,683	129		
0.94	**1.05**	**3835**	1,520	14,036	43,210	129		
0.95	**1.93**	**3935**	1,510	13,885	78,721	129		
1.06	**1.18**	**3835**	1,350	12,477	44,760	129		
1.02	**2.07**	**3935**	1,400	12,939	80,703	129		
1.18	**1.31**	**3835**	1,210	11,214	46,006	129		
1.16	**2.36**	**3935**	1,230	11,330	83,959	129		
1.24	**0.82**	**3735**	1,160	10,679	23,419	129		
1.34	**1.49**	**3835**	1,070	9,872	47,318	129		
1.32	**2.67**	**3935**	1,090	10,014	86,549	129		
1.36	**0.90**	**3735**	1,050	9,739	25,513	129		
1.49	**1.66**	**3835**	962	8,888	48,274	129		
1.48	**3.00**	**3935**	968	8,917	88,680	129		
1.50	**0.99**	**3735**	955	8,823	27,545	129		
1.69	**1.88**	**3835**	848	7,831	49,293	129		
1.65	**3.35**	**3935**	867	7,989	90,478	129		
1.76	**1.16**	**3735**	815	7,527	30,409	129		
1.80	**2.01**	**3835**	793	7,329	49,776	129		
1.93	**3.91**	**3935**	742	6,837	92,720	129		
1.97	**1.31**	**3735**	724	6,691	32,250	129		
2.08	**2.32**	**3835**	688	6,358	50,704	129		
2.00	**4**	**3935**	713	6,575	93,233	129		
2.20	**1.46**	**3735**	651	6,013	33,736	129		
2.37	**2.64**	**3835**	604	5,578	51,446	129		
2.29	**5**	**3935**	625	5,758	94,848	129		
2.69	**0.88**	**3635**	532	4,909	23,121	129		
2.50	**1.66**	**3735**	573	5,294	35,312	129		
2.68	**2.97**	**3835**	534	4,938	52,052	129		
2.59	**5**	**3935**	552	5,089	96,187	129		
2.98	**0.97**	**3635**	479	4,420	24,419	129		
2.77	**1.84**	**3735**	516	4,766	36,464	129		
3.05	**3.38**	**3835**	469	4,332	52,623	129		
2.91	**6**	**3935**	492	4,531	97,318	129		
3.39	**1.10**	**3635**	422	3,894	25,815	129		
3.15	**2.09**	**3735**	455	4,200	37,700	129		
3.25	**7**	**3935**	441	4,060	98,288	129		
3.62	**1.18**	**3635**	395	3,644	26,480	129		
3.36	**2.23**	**3735**	425	3,930	38,286	129		
3.65	**7**	**3935**	392	3,614	99,217	129		
4.15	**0.80**	**3535**	345	3,215	12,565	129	7.24	0.81
4.17	**1.36**	**3635**	343	3,161	27,765	129		
3.87	**2.57**	**3735**	369	3,410	39,418	129		
4.26	**9**	**3935**	336	3,093	99,893	129		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.5 kW - 50 Hz		LS 90 L FFB2 IFT/NIE - LSES 90 LU FFB2 IFT/IE3		LSES 90 LU IFT/IE3			**2.61 kW - 87 Hz***	
4.74	**0.92**	**3535**	302	2,813	13,991	129	8.27	0.92
4.22	**1.52**	**3635**	339	2,826	28,658	129		
4.34	**2.77**	**3735**	330	3,048	40,203	129		
4.81	**5**	**3835**	297	2,747	54,107	129		
5.39	**1.04**	**3535**	265	2,475	15,182	129	9.40	1.05
4.87	**1.73**	**3635**	294	2,487	29,560	129		
4.94	**3.16**	**3735**	289	2,674	41,013	129		
6.10	**1.18**	**3535**	235	2,188	16,192	129	10.6	1.19
5.55	**1.92**	**3635**	258	2,239	30,221	129		
6.88	**1.33**	**3535**	208	1,940	17,058	129	12.0	1.34
6.14	**2.18**	**3635**	233	1,972	30,932	129		
6.48	**7**	**3835**	221	2,039	54,766	129		
6.82	**0.82**	**3435**	210	1,955	17,830	129	11.9	0.82
7.78	**1.51**	**3535**	184	1,714	17,845	129	13.6	1.52
6.94	**2.33**	**3635**	206	1,846	31,270	129		
7.37	**8**	**3835**	194	1,793	54,993	129		
7.80	**0.94**	**3435**	183	1,710	18,183	129	13.6	0.94
8.20	**1.59**	**3535**	174	1,626	18,150	129	14.3	1.60
7.42	**2.69**	**3635**	193	1,601	31,924	129		
7.79	**5**	**3735**	184	1,695	43,128	129		
8.37	**9**	**3835**	171	1,579	55,191	129		
9.31	**1.11**	**3433**	154	1,459	18,545	97-117	16.2	1.11
9.01	**1.77**	**3533**	159	1,505	18,500	99-119	15.7	1.76
9.12	**2.89**	**3633**[1]	157	1,487	32,229	101-121		
9.43	**6**	**3733**[1]	152	1,434	43,691	103-123		
10.3	**1.23**	**3433**	139	1,318	18,746	97-117	18.0	1.23
10.7	**2.09**	**3533**	134	1,270	19,384	99-119	18.6	2.07
10.6	**3.37**	**3633**[1]	135	1,276	32,791	101-121		
10.6	**7**	**3733**[1]	135	1,276	44,031	103-123		
11.5	**1.37**	**3433**	124	1,179	18,941	97-117	20.1	1.37
11.9	**2.32**	**3533**	121	1,144	19,820	99-119	20.7	2.29
11.6	**3.67**	**3633**[1]	124	1,173	33,066	101-121		
11.6	**7**	**3733**[1]	123	1,164	44,273	103-123		
13.3	**1.58**	**3433**	108	1,024	19,162	97-117	23.1	1.57
13.1	**2.55**	**3533**	109	1,035	20,192	99-119	22.8	2.52
13.3	**4**	**3633**[1]	108	1,022	33,470	101-121		
13.2	**8**	**3733**[1]	109	1,029	44,500	103-123		
14.8	**0.88**	**3333**	96.4	916	7,949	95-115	25.9	0.88
15.0	**1.78**	**3433**	95.4	906	19,331	97-117	26.2	1.77
14.2	**2.76**	**3533**	101	954	20,472	99-119	24.8	2.73
15.0	**5**	**3633**[1]	95.1	901	33,793	101-121		
16.7	**0.99**	**3333**	85.7	814	8,500	95-115	29.1	0.99
16.3	**1.93**	**3433**	87.7	833	19,437	97-117	28.44	1.90
16.5	**3.20**	**3533**	86.5	820	20,932	99-119	28.8	3.16
16.8	**5**	**3633**[1]	85.3	809	34,040	101-121		
18.6	**1.10**	**3333**	77	732	8,963	95-115	32.4	1.09
18.5	**2.18**	**3433**	77.5	736	19,458	97-117	32.2	2.11
17.8	**3.43**	**3533**	80.6	764	21,124	99-119	31.0	3.38
18.8	**6**	**3633**[1]	75.9	720	34,277	101-121		
18.5	**10**	**3733**[1]	77.3	732	45,204	103-123		

[1]Ot 3633 and Ot 3733: integrated mounting MI obligatory for frame size 90

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.5 kW - 50 Hz			LSES 90 LU IFT/IE3 LS 90 L FFB2 IFT/NIE - LSES 90 LU FFB2 IFT/IE3				**2.61 kW - 87 Hz***	
21.1	**1.25**	**3333**	67.8	644	9,429	95-115	36.8	1.24
20.7	**2.44**	**3433**	69	656	18,976	97-117	36.1	2.32
20.3	**3.90**	**3533**	70.6	669	21,449	99-119	35.4	3.84
20.8	**6**	**3633[1]**	68.6	651	34,463	101-121		
20.8	**10**	**3733[1]**	68.8	651	45,377	103-123		
23.4	**1.38**	**3333**	61	580	9,763	95-115	40.9	1.37
23.1	**2.72**	**3433**	61.9	588	18,516	97-117	40.3	2.50
22.9	**4**	**3533**	62.4	591	21,715	99-119	40.0	4
22.7	**7**	**3633[1]**	63.1	598	34,603	101-121		
22.8	**12**	**3733[1]**	62.8	594	45,500	103-123		
26.4	**0.87**	**3233**	54.1	515	7,643	93-113	46.1	0.86
26.6	**1.56**	**3333**	53.8	511	10,116	95-115	46.4	1.55
25.1	**2.95**	**3433**	57	542	18,165	97-117	43.7	2.65
25.8	**5**	**3533**	55.5	527	21,936	99-119	44.9	5
26.0	**8**	**3633[1]**	55	521	34,809	101-121		
25.8	**13**	**3733[1]**	55.5	525	45,648	103-123		
28.0	**0.92**	**3233**	51	485	7,715	93-113	48.9	0.92
28.4	**1.67**	**3333**	50.3	478	10,282	95-115	49.6	1.66
28.2	**3.31**	**3433**	50.6	481	17,650	97-117	49.3	2.88
28.7	**5**	**3533**	49.8	472	22,123	99-119	50.1	5
29.5	**9**	**3633[1]**	48.5	460	34,974	101-121		
31.6	**1.04**	**3233**	45.2	430	7,663	93-113	55.2	1.03
32.8	**1.92**	**3333**	43.7	415	10,598	95-115	57.1	1.90
32.4	**3.68**	**3433**	44.1	419	17,053	97-117	56.6	3.17
33.6	**6**	**3533**	42.6	404	22,354	99-119	58.6	6
32.9	**10**	**3633[1]**	43.5	413	35,100	101-121		
36.2	**1.18**	**3233**	39.5	376	7,570	93-113	63.1	1.16
37.3	**2.18**	**3333**	38.3	364	10,847	95-115	65.1	2.12
37.7	**3.88**	**3433**	38	361	16,408	97-117	65.7	3.41
37.4	**7**	**3533**	38.2	362	22,495	99-119	65.2	7
36.9	**11**	**3633[1]**	38.7	367	35,221	101-121		
41.1	**1.34**	**3233**	34.8	331	7,461	93-113	71.7	1.28
38.6	**2.00**	**3333**	37.1	352	10,904	95-115	67.3	1.99
40.9	**4**	**3433**	35	332	16,050	97-117	71.4	3.61
42.0	**8**	**3533**	34	323	22,630	99-119	73.3	7
45.4	**1.19**	**3232**	31.5	303	7,769	91-111	79.2	1.2
46.5	**1.51**	**3233**	30.8	293	7,334	93-113	81.1	1
43.8	**2.27**	**3333**	32.7	310	11,106	95-115	76.3	2.25
46.1	**5**	**3433**	31	295	15,545	97-117	80.4	4
46.9	**9**	**3533**	30.5	289	22,744	99-119	81.8	8.3
52.2	**0.82**	**3132**	27.4	264	5,383	89-109		
49.8	**1.31**	**3232**	28.7	276	7,845	91-111	86.8	1.31
52.4	**1.70**	**3233**	27.3	259	7,197	93-113	91.5	1.54
46.8	**2.42**	**3333**	30.6	291	11,201	95-115	81.6	2.40
50.1	**5.04**	**3433**	28.6	271	15,193	97-117	87.3	4
58.2	**0.89**	**3132**	24.6	236	5,479	89-109		
54.9	**1.44**	**3232**	26	250	7,916	91-111	95.8	1.45
59.3	**1.92**	**3233**	24.1	229	7,044	93-113	103	1.67
58.9	**3.40**	**3333**	24.3	231	11,484	95-115	103	2.97
57.8	**6**	**3433**	24.8	235	14,600	97-117	101	5
54.8	**10**	**3533**	26.1	247	22,886	99-119	95.6	10
66.6	**0.97**	**3132**	21.5	207	5,550	89-109	116	0.83
64.4	**1.69**	**3232**	22.2	213	8,021	91-111	112	1.70
62.6	**2.01**	**3233**	22.9	217	6,978	93-113	109	1.74
61.4	**3.16**	**3333**	23.3	221	11,529	95-115	107	3.07

[1]Ot 3633 and Ot 3733: integrated mounting MI obligatory for frame size 90

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.5 kW - 50 Hz			LSES 90 LU IFT/IE3 LS 90 L FFB2 IFT/NIE - LSES 90 LU FFB2 IFT/IE3				**2.61 kW - 87 Hz***	
70.4	**1.00**	**3132**	20.3	195	5,627	89-109	123	0.85
72.4	**1.90**	**3232**	19.7	189.7	8,087	91-111	126	1.91
70.3	**2.19**	**3233**	20.4	194	6,823	93-113	123	1.88
70.5	**3.91**	**3333**	20.3	192.8	11,500	95-115	123	3.36
71.3	**6**	**3433**	20.1	190.5	13,753	97-117	124	6
83.6	**1.13**	**3132**	17.1	164.6	5,742	89-109	146	0.97
80.6	**2.12**	**3232**	17.7	170.5	8,144	91-111	141	2.13
81.7	**7**	**3433**	17.5	166.3	13,220	97-117	142	6
88.7	**1.17**	**3132**	16.1	155.1	5,778	89-109	155	0.99
91.6	**2.40**	**3232**	15.6	150.1	8,200	91-111	160	2.42
88.7	**2.60**	**3233**	16.1	153.4	6,494	93-113	155	2.22
88.9	**5**	**3333**	16.1	152.9	10,789	95-115	155	3.96
92.2	**8**	**3433**	15.5	147.4	12,755	97-117	161	7
100	**1.27**	**3132**	14.3	137.5	5,845	89-109	175	1.08
102	**2.67**	**3232**	14.1	135.1	8,243	91-111	177	2.69
96.9	**5**	**3333**	14.8	140.2	10,530	95-115	169	4
94.2	**8**	**3433**	15.2	144.2	12,675	97-117	164	6
114	**1.38**	**3132**	12.5	120.3	5,900	89-109	200	1.18
115	**3.03**	**3232**	12.4	119.1	8,288	91-111	201	3.05
116	**6**	**3333**	12.3	117.2	10,001	95-115	202	5
116	**9**	**3433**	12.3	116.8	11,900	97-117	203	8
130	**1.50**	**3132**	11	105.9	5,967	89-109	227	1.28
123	**3.24**	**3232**	11.6	111.4	8,308	91-111	215	3.26
147	**1.62**	**3132**	9.72	93.6	6,016	89-109	257	1.38
142	**3.73**	**3232**	10.1	96.7	8,351	91-111	248	3.76
146	**7**	**3333**	9.78	92.9	9,343	95-115	255	6
150	**11**	**3433**	9.51	90.4	11,005	97-117	262	9
166	**1.75**	**3132**	8.62	83.0	6,058	89-109	289	1.49
162	**4.25**	**3232**	8.83	84.8	8,385	91-111	283	4
188	**1.9**	**3132**	7.62	73.3	6,097	89-109	327	1.62
198	**1.96**	**3132**	7.23	69.6	6,108	89-109	345	1.67
222	**2.10**	**3132**	6.43	61.9	6,138	89-109	388	1.79
256	**7**	**3232**	5.6	53.8	8,460	91-111	446	6
280	**2.4**	**3132**	5.1	49.1	6,185	89-109	489	2.05
306	**8**	**3232**	4.68	44.9	8,052	91-111	533	7
386	**9**	**3232**	3.71	35.6	7,546	91-111	673	8

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.8 kW - 50 Hz			LS 90 L FFB2	LSES 100 L IFT/IE3 IFT/NIE - LSES 100 L FFB2 IFT/IE3			**3.13 kW - 87 Hz***	
0.52	**0.88**	**3935**	2,770	30,546	23,160	137		
0.61	**1.04**	**3935**	2,330	25,769	44,705	129		
0.68	**1.15**	**3935**	2,100	23,206	54,013	129		
0.75	**1.27**	**3935**	1,900	21,010	60,962	129		
0.82	**1.38**	**3935**	1,750	19,358	65,654	129		
0.94	**0.88**	**3835**	1,520	16,811	40,414	129		
0.95	**1.61**	**3935**	1,510	16,637	72,554	129		
1.06	**0.99**	**3835**	1,350	14,943	42,301	129		
1.02	**1.72**	**3935**	1,400	15,503	75,178	129		
1.18	**1.10**	**3835**	1,210	13,431	43,813	129		
1.17	**1.97**	**3935**	1,230	13,576	79,376	129		
1.34	**1.25**	**3835**	1,070	11,823	45,406	129		
1.32	**2.23**	**3935**	1,090	11,999	82,621	129		
1.49	**1.38**	**3835**	962	10,645	46,563	129		
1.48	**2.5**	**3935**	968	10,685	85,235	129		
1.50	**0.83**	**3735**	955	10,567	23,670	129		
1.69	**1.57**	**3835**	848	9,380	47,797	129		
1.66	**2.79**	**3935**	867	9,573	87,408	129		
1.76	**0.97**	**3735**	815	9,015	27,119	129		
1.81	**1.68**	**3835**	793	8,778	48,380	129		
1.93	**3.26**	**3935**	742	8,192	90,084	129		
1.98	**1.09**	**3735**	724	8,013	29,336	129		
2.09	**1.93**	**3835**	688	7,615	49,501	129		
2.01	**3.39**	**3935**	713	7,878	90,693	129		
2.20	**1.22**	**3735**	651	7,202	31,124	129		
2.38	**2.20**	**3835**	604	6,681	50,396	129		
2.30	**3.88**	**3935**	625	6,899	92,599	129		
2.50	**1.38**	**3735**	573	6,340	33,019	129		
2.69	**2.48**	**3835**	534	5,914	51,127	129		
2.60	**4**	**3935**	552	6,097	94,174	129		
2.99	**0.81**	**3635**	479	5,294	22,100	129		
2.78	**1.53**	**3735**	516	5,708	34,405	129		
3.06	**2.82**	**3835**	469	5,189	51,815	129		
2.92	**5**	**3935**	492	5,430	95,502	129		
3.40	**0.92**	**3635**	422	4,665	23,769	129		
3.16	**1.74**	**3735**	455	5,030	35,889	129		
3.26	**6**	**3935**	441	4,865	96,640	129		
3.63	**0.99**	**3635**	395	4,365	24,565	129		
3.37	**1.86**	**3735**	425	4,707	36,593	129		
3.66	**6**	**3935**	392	4,331	97,729	129		
4.18	**1.14**	**3635**	343	3,787	26,101	129		
3.89	**2.15**	**3735**	369	4,084	37,952	129		
4.28	**7**	**3935**	336	3,706	99,024	129		
4.24	**1.27**	**3635**	339	3,385	27,169	129		
4.35	**2.31**	**3735**	330	3,650	38,895	129		
4.83	**4**	**3835**	297	3,290	53,600	129		
5.41	**0.87**	**3535**	265	2,964	13,453	129	9.53	0.88
4.89	**1.44**	**3635**	294	2,979	28,249	129		
4.96	**2.64**	**3735**	289	3,202	39,867	129		
6.12	**0.99**	**3535**	235	2,620	14,671	129	10.8	1.00
5.57	**1.60**	**3635**	258	2,682	29,040	129		
6.90	**1.11**	**3535**	208	2,323	15,716	129	12.2	1.13
6.16	**1.82**	**3635**	233	2,363	29,891	129		
6.50	**6**	**3835**	221	2,442	54,391	129		
7.81	**1.26**	**3535**	184	2,053	16,663	129	13.8	1.27
6.96	**1.94**	**3635**	206	2,211	30,295	129		
7.39	**7**	**3835**	194	2,148	54,665	129		
7.83	**0.78**	**3435**	183	2,048	17,696	129	13.8	0.79
8.23	**1.33**	**3535**	174	1,948	17,031	129	14.5	1.34
7.45	**2.24**	**3635**	193	1,918	31,078	129		
7.82	**4**	**3735**	184	2,031	42,404	129		
8.40	**8**	**3835**	171	1,891	54,902	129		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.8 kW - 50 Hz			LSES 100 L IFT/IE3 LS 90 L FFB2 IFT/NIE - LSES 100 L FFB2 IFT/IE3				**3.13 kW - 87 Hz***	
9.35	**0.93**	**3433**	154	1,748	18,129	97-117	16.5	0.93
9.04	**1.48**	**3533**	159	1,804	17,531	99-119	15.9	1.48
9.15	**2.41**	**3633[1]**	157	1,782	31,441	101-121		
9.47	**5**	**3733[1]**	152	1,720	43,076	103-123		
10.4	**1.03**	**3433**	139	1,579	18,372	97-117	18.2	1.03
10.7	**1.75**	**3533**	134	1,522	18,511	99-119	18.9	1.74
10.7	**2.81**	**3633[1]**	135	1,529	32,114	101-121		
10.6	**5**	**3733[1]**	135	1,530	43,484	103-123		
11.6	**1.15**	**3433**	124	1,413	18,611	97-117	20.4	1.15
11.9	**1.93**	**3533**	121	1,371	19,036	99-119	21.0	1.93
11.6	**3.06**	**3633[1]**	124	1,406	32,444	101-121		
11.7	**6**	**3733[1]**	123	1,396	43,774	103-123		
13.3	**1.32**	**3433**	108	1,227	18,874	97-117	23.5	1.32
13.1	**2.13**	**3533**	109	1,241	19,484	99-119	23.2	2.12
13.3	**3.51**	**3633[1]**	108	1,225	32,927	101-121		
13.2	**7**	**3733[1]**	109	1,234	44,123	103-123		
15.0	**1.48**	**3433**	95.4	1,086	19,074	97-117	26.5	1.49
14.3	**2.31**	**3533**	101	1,143	19,820	99-119	25.2	2.29
15.1	**3.98**	**3633[1]**	95.1	1,080	33,314	101-121		
16.8	**0.83**	**3333**	85.7	975	7,612	95-115	29.5	0.83
16.4	**1.61**	**3433**	87.7	998	19,079	97-117	28.9	1.60
16.6	**2.67**	**3533**	86.5	983	20,373	99-119	29.3	2.65
16.8	**4**	**3633[1]**	85.3	970	33,610	101-121		
18.6	**0.92**	**3333**	77	877	8,169	95-115	32.9	0.92
18.5	**1.82**	**3433**	77.5	882	18,670	97-117	32.7	1.77
17.8	**2.86**	**3533**	80.6	916	20,604	99-119	31.4	2.84
18.9	**5**	**3633[1]**	75.9	863	33,895	101-121		
18.6	**8**	**3733[1]**	77.3	877	44,891	103-123		
21.2	**1.04**	**3333**	67.8	772	8,746	95-115	37.3	1.04
20.8	**2.04**	**3433**	69	786	18,270	97-117	36.7	1.94
20.3	**3.25**	**3533**	70.6	802	20,994	99-119	35.9	3.22
20.9	**5**	**3633[1]**	68.6	780	34,117	101-121		
20.9	**9**	**3733[1]**	68.8	781	45,099	103-123		
23.5	**1.15**	**3333**	61	695	9,160	95-115	41.5	1.16
23.2	**2.27**	**3433**	61.9	705	17,878	97-117	40.9	2.09
23.0	**3.66**	**3533**	62.4	709	21,313	99-119	40.6	3.63
22.7	**6**	**3633[1]**	63.1	717	34,285	101-121		
22.9	**10**	**3733[1]**	62.8	712	45,246	103-123		
26.7	**1.31**	**3333**	53.8	612	9,595	95-115	47.0	1.31
25.2	**2.46**	**3433**	57	649	17,568	97-117	44.4	2.22
25.8	**4.09**	**3533**	55.5	631	21,579	99-119	45.6	4
26.1	**6**	**3633[1]**	55	625	34,532	101-121		
25.9	**11**	**3733[1]**	55.5	629	45,423	103-123		
28.5	**1.39**	**3333**	50.3	573	9,799	95-115	50.3	1.39
28.3	**2.76**	**3433**	50.6	576	17,116	97-117	50.0	2.41
28.8	**5**	**3533**	49.8	565	21,803	99-119	50.9	5
29.6	**7**	**3633[1]**	48.5	551	34,730	101-121		
31.8	**0.87**	**3233**	45.2	515	7,044	93-113	56.0	0.87
32.9	**1.60**	**3333**	43.7	497	10,187	95-115	57.9	1.60
32.5	**3.07**	**3433**	44.1	502	16,577	97-117	57.4	2.65
33.7	**5**	**3533**	42.6	484	22,081	99-119	59.4	5
33.0	**8**	**3633[1]**	43.5	495	34,881	101-121		
36.3	**0.99**	**3233**	39.5	451	7,030	93-113	64.0	0.97
37.5	**1.82**	**3333**	38.3	436	10,492	95-115	66.0	1.78
37.8	**3.23**	**3433**	38	432	15,989	97-117	66.6	2.85
37.5	**6**	**3533**	38.2	434	22,250	99-119	66.2	6
37.0	**9**	**3633[1]**	38.7	440	35,026	101-121		
41.2	**1.12**	**3233**	34.8	396	6,980	93-113	72.7	1.08
38.7	**1.67**	**3333**	37.1	422	10,561	95-115	68.2	1.67
41.1	**3.48**	**3433**	35	398	15,663	97-117	72.4	3.02
42.2	**6**	**3533**	34	387	22,412	99-119	74.3	6

[1]Ot 3633 and Ot 3733: integrated mounting MI obligatory for frame size 90

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
1.8 kW - 50 Hz			LS 90 L FFB2 IFT/NIE - LSES 100 L FFB2 IFT/IE3	LSES 100 L IFT/IE3			**3.13 kW - 87 Hz***	
45.5	**0.99**	**3232**	31.5	363	7,594	91-111	80.3	1.01
46.7	**1.26**	**3233**	30.8	350	6,903	93-113	82.3	1.18
43.9	**1.89**	**3333**	32.7	372	10,808	95-115	77.4	1.89
46.2	**3.81**	**3433**	31	353	15,196	97-117	81.5	3.28
47.1	**7**	**3533**	30.5	347	22,549	99-119	83.0	7
49.9	**1.09**	**3232**	28.7	331	7,690	91-111	88.1	1.11
52.6	**1.42**	**3233**	27.3	311	6,818	93-113	92.8	1.29
46.9	**2.02**	**3333**	30.6	348	10,924	95-115	82.7	2.01
50.3	**4**	**3433**	28.6	325	14,866	97-117	88.6	3.60
55.1	**1.20**	**3232**	26	300	7,782	91-111	97.2	1.22
59.6	**1.60**	**3233**	24.1	275	6,700	93-113	105	1.40
59.1	**2.84**	**3333**	24.3	277	11,268	95-115	104	2.48
58.0	**5**	**3433**	24.8	282	14,310	97-117	102	3.98
55.0	**8**	**3533**	26.1	297	22,719	99-119	96.9	8
66.8	**0.81**	**3132**	21.5	248	5,439	89-109		
64.6	**1.41**	**3232**	22.2	256	7,908	91-111	114	1.43
62.8	**1.68**	**3233**	22.9	260	6,650	93-113	111	1.45
61.7	**2.63**	**3333**	23.3	265	11,323	95-115	109	2.58
70.7	**0.84**	**3132**	20.3	234	5,487	89-109		
72.7	**1.59**	**3232**	19.7	227	7,987	91-111	128	1.61
70.5	**1.83**	**3233**	20.4	232	6,525	93-113	124	1.58
70.7	**3.26**	**3333**	20.3	231	11,240	95-115	125	2.82
71.6	**5**	**3433**	20.1	228	13,507	97-117	126	5
83.9	**0.94**	**3132**	17.1	197	5,621	89-109	148	0.81
80.9	**1.77**	**3232**	17.7	204	8,053	91-111	143	1.79
82.0	**6**	**3433**	17.5	199	12,997	97-117	145	5
89.0	**0.97**	**3132**	16.1	186	5,663	89-109	157	0.83
91.9	**2.01**	**3232**	15.6	180	8,121	91-111	162	2.03
89.0	**2.17**	**3233**	16.1	184	6,255	93-113	157	1.86
89.2	**3.87**	**3333**	16.1	183	10,572	95-115	157	3.31
92.5	**6**	**3433**	15.5	177	12,559	97-117	163	6
100	**1.06**	**3132**	14.3	165	5,741	89-109	177	0.90
102	**2.23**	**3232**	14.1	162	8,169	91-111	180	2.26
97.2	**4**	**3333**	14.8	168	10,327	95-115	171	3.61
94.6	**6**	**3433**	15.2	173	12,480	97-117	167	5
115	**1.15**	**3132**	12.5	144	5,819	89-109	202	0.99
116	**2.53**	**3232**	12.4	143	8,223	91-111	204	2.56
116	**5**	**3333**	12.3	140	9,828	95-115	205	4
117	**7**	**3433**	12.3	140	11,734	97-117	206	6
130	**1.25**	**3132**	11	127	5,886	89-109	230	1.07
124	**2.70**	**3232**	11.6	133	8,249	91-111	218	2.74
148	**1.35**	**3132**	9.72	112	5,943	89-109	260	1.16
143	**3.12**	**3232**	10.1	116	8,300	91-111	251	3.16
147	**6**	**3333**	9.78	111	9,196	95-115	259	5
151	**9**	**3433**	9.51	108	10,868	97-117	266	8
166	**1.46**	**3132**	8.62	99	5,993	89-109	293	1.25
163	**3.55**	**3232**	8.83	102	8,340	91-111	287	3.60
188	**1.58**	**3132**	7.62	88	6,039	89-109	332	1.36
199	**1.63**	**3132**	7.23	83	6,057	89-109	350	1.40
223	**1.75**	**3132**	6.43	74	6,093	89-109	393	1.50
256	**6**	**3232**	5.6	64	8,393	91-111	452	5
281	**2.00**	**3132**	5.1	59	6,149	89-109	496	1.72
307	**7**	**3232**	4.68	54	7,990	91-111	541	6
387	**8**	**3232**	3.71	43	7,497	91-111	682	7

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
2.2 kW - 50 Hz		LSES 100 LR IFT/IE3 LS 100 L FFB2 IFT/NIE - LSES 100 LR FFB2 IFT/IE3					**3.83 kW - 87 Hz***	
0.61	**0.85**	**3935**	2,330	31,553	17,809	129		
0.68	**0.94**	**3935**	2,100	28,416	33,506	129		
0.75	**1.04**	**3935**	1,900	25,726	44,871	129		
0.82	**1.13**	**3935**	1,750	23,703	52,315	129		
0.95	**1.31**	**3935**	1,510	20,372	62,827	129		
1.06	**0.81**	**3835**	1,350	18,290	38,905	129		
1.02	**1.41**	**3935**	1,400	18,983	66,662	129		
1.18	**0.90**	**3835**	1,210	16,439	40,791	129		
1.17	**1.61**	**3935**	1,230	16,623	72,587	129		
1.34	**1.02**	**3835**	1,070	14,471	42,774	129		
1.32	**1.82**	**3935**	1,090	14,692	76,981	129		
1.49	**1.13**	**3835**	962	13,030	44,212	129		
1.48	**2.04**	**3935**	968	13,083	80,405	129		
1.69	**1.28**	**3835**	848	11,481	45,743	129		
1.66	**2.28**	**3935**	867	11,721	83,178	129		
1.76	**0.79**	**3735**	815	11,034	22,627	129		
1.81	**1.37**	**3835**	793	10,744	46,466	129		
1.93	**2.67**	**3935**	742	10,031	86,515	129		
1.98	**0.89**	**3735**	724	9,808	25,359	129		
2.09	**1.58**	**3835**	688	9,321	47,854	129		
2.01	**2.77**	**3935**	713	9,647	87,264	129		
2.20	**0.99**	**3735**	651	8,815	27,561	129		
2.38	**1.80**	**3835**	604	8,178	48,960	129		
2.30	**3.17**	**3935**	625	8,447	89,590	129		
2.50	**1.13**	**3735**	573	7,760	29,894	129		
2.69	**2.02**	**3835**	534	7,239	49,863	129		
2.60	**3.58**	**3935**	552	7,466	91,493	129		
2.78	**1.25**	**3735**	516	6,987	31,598	129		
3.06	**2.31**	**3835**	469	6,351	50,711	129		
2.92	**4**	**3935**	492	6,648	93,089	129		
3.16	**1.42**	**3735**	455	6,156	33,422	129		
3.39	**2.55**	**3835**	424	5,736	51,296	129		
3.26	**4**	**3935**	441	5,956	94,453	129		
3.63	**0.80**	**3635**	395	5,344	21,970	129		
3.37	**1.52**	**3735**	425	5,761	34,288	129		
3.83	**2.89**	**3835**	375	5,075	51,922	129		
3.66	**4.96**	**3935**	392	5,303	95,756	129		
4.18	**0.93**	**3635**	343	4,635	23,847	129		
3.89	**1.75**	**3735**	369	4,998	35,957	129		
4.08	**3.08**	**3835**	351	4,758	52,221	129		
4.28	**6**	**3935**	336	4,538	97,304	129		
4.24	**1.04**	**3635**	339	4,144	25,152	129		
4.35	**1.89**	**3735**	330	4,468	37,115	129		
4.83	**3.64**	**3835**	297	4,027	52,910	129		
4.89	**1.18**	**3635**	294	3,647	26,471	129		
4.96	**2.15**	**3735**	289	3,920	38,309	129		
5.16	**3.92**	**3835**	278	3,767	53,154	129		
6.12	**0.80**	**3535**	235	3,207	12,592	129	10.6	0.81
5.57	**1.31**	**3635**	258	3,284	27,439	129		
5.49	**2.38**	**3735**	261	3,540	39,133	129		
5.50	**4**	**3835**	261	3,531	53,375	129		
6.90	**0.91**	**3535**	208	2,844	13,881	129	12.0	0.91
6.16	**1.49**	**3635**	233	2,893	28,479	129		
6.20	**2.69**	**3735**	231	3,133	40,019	129		
6.50	**5**	**3835**	221	2,989	53,882	129		
7.81	**1.03**	**3535**	184	2,513	15,050	129	13.6	1.03
6.96	**1.59**	**3635**	206	2,707	28,974	129		
6.62	**2.87**	**3735**	217	2,937	40,443	129		
7.39	**6**	**3835**	194	2,629	54,217	129		
8.23	**1.08**	**3535**	174	2,384	15,503	129	14.3	1.09
7.45	**1.83**	**3635**	193	2,348	29,930	129		
7.82	**3.40**	**3735**	184	2,486	41,421	129		
8.40	**6**	**3835**	171	2,314	54,510	129		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
2.2 kW - 50 Hz		LSES 100 LR IFT/IE3 LS 100 L FFB2 IFT/NIE - LSES 100 LR FFB2 IFT/IE3					**3.83 kW - 87 Hz***	
9.04	**1.21**	**3533**	159	2,210	16,114	99-119	15.7	1.20
9.15	**1.97**	**3633**	157	2,183	30,372	101-121		
9.47	**4**	**3733**	152	2,107	42,240	103-123		
10.7	**1.43**	**3533**	134	1,864	17,322	99-119	18.6	1.41
10.7	**2.30**	**3633**	135	1,873	31,196	101-121		
10.6	**4**	**3733**	135	1,875	42,740	103-123		
11.6	**0.94**	**3433**	124	1,730	18,155	97-117	20.1	0.93
11.9	**1.58**	**3533**	121	1,679	17,967	99-119	20.7	1.56
11.6	**2.50**	**3633**	124	1,722	31,600	101-121		
11.7	**5**	**3733**	123	1,710	43,096	103-123		
13.3	**1.07**	**3433**	108	1,503	18,419	97-117	23.1	1.07
13.1	**1.74**	**3533**	109	1,520	18,519	99-119	22.8	1.72
13.3	**2.87**	**3633**	108	1,500	32,192	101-121		
13.2	**5.53**	**3733**	109	1,512	43,524	103-123		
15.0	**1.21**	**3433**	95.4	1,330	18,230	97-117	26.2	1.21
14.3	**1.88**	**3533**	101	1,400	18,932	99-119	24.8	1.86
15.1	**3.25**	**3633**	95.1	1,323	32,665	101-121		
14.6	**6**	**3733**	98.0	1,362	43,847	103-123		
16.4	**1.32**	**3433**	87.7	1,222	18,068	97-117	28.4	1.30
16.6	**2.18**	**3533**	86.5	1,204	19,613	99-119	28.8	2.15
16.8	**3.62**	**3633**	85.3	1,188	33,028	101-121		
16.4	**7**	**3733**	87.4	1,215	44,164	103-123		
18.5	**1.49**	**3433**	77.5	1,080	17,788	97-117	32.2	1.44
17.8	**2.34**	**3533**	80.6	1,122	19,895	99-119	31.0	2.3
18.9	**4**	**3633**	75.9	1,057	33,376	101-121		
17.9	**7**	**3733**	80.4	1,117	44,375	103-123		
21.2	**0.85**	**3333**	67.8	945	7,785	95-115	36.8	0.85
20.8	**1.66**	**3433**	69	962	17,490	97-117	36.1	1.58
20.3	**2.65**	**3533**	70.6	982	20,375	99-119	35.4	2.61
20.6	**4**	**3633**	69.6	969	33,613	101-121		
20.9	**7**	**3733**	68.8	956	44,720	103-123		
23.5	**0.94**	**3333**	61	851	8,313	95-115	40.9	0.94
23.2	**1.85**	**3433**	61.9	863	17,184	97-117	40.3	1.70
23.0	**2.99**	**3533**	62.4	868	20,767	99-119	40.0	2.94
23.9	**5**	**3633**	60.1	837	33,964	101-121		
22.9	**8**	**3733**	62.8	872	44,901	103-123		
26.7	**1.07**	**3333**	53.8	750	8,866	95-115	46.4	1.06
25.2	**2.01**	**3433**	57	795	16,935	97-117	43.7	1.80
25.8	**3.34**	**3533**	55.5	773	21,093	99-119	44.9	3.28
26.4	**6**	**3633**	54.4	757	34,179	101-121		
25.9	**9**	**3733**	55.5	771	45,119	103-123		
28.5	**1.14**	**3333**	50.3	702	9,124	95-115	49.6	1.13
28.3	**2.25**	**3433**	50.6	706	16,560	97-117	49.3	1.96
28.8	**4**	**3533**	49.8	693	21,368	99-119	50.1	3.65
29.6	**6**	**3633**	48.5	675	34,398	101-121		
28.7	**9**	**3733**	50	695	45,283	103-123		
32.9	**1.31**	**3333**	43.7	609	9,614	95-115	57.1	1.30
32.5	**2.51**	**3433**	44.1	615	16,100	97-117	56.6	2.16
33.7	**4**	**3533**	42.6	593	21,710	99-119	58.6	4
33.0	**7**	**3633**	43.5	606	34,583	101-121		
32.2	**10**	**3733**	44.6	620	45,445	103-123		
36.3	**0.81**	**3233**	39.5	552	6,350	93-113	63.1	0.79
37.5	**1.49**	**3333**	38.3	534	9,999	95-115	65.1	1.44
36.0	**2.70**	**3433**	39.9	556	15,759	97-117	62.5	2.32
37.5	**5**	**3533**	38.2	532	21,917	99-119	65.2	5
37.0	**7**	**3633**	38.7	539	34,761	101-121		
35.0	**11**	**3733**	41	570	45,552	103-123		
41.2	**0.91**	**3233**	34.8	485	6,388	93-113	71.7	0.88
41.5	**1.64**	**3333**	34.6	482	10,261	95-115	72.1	1.57
41.3	**2.99**	**3433**	34.8	485	15,279	97-117	71.7	2.55
42.2	**5**	**3533**	34	474	22,115	99-119	73.3	5
40.4	**8**	**3633**	35.5	494	34,882	101-121		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
2.2 kW - 50 Hz		LSES 100 LR IFT/IE3 LS 100 L FFB2 IFT/NIE - LSES 100 LR FFB2 IFT/IE3					**3.83 kW - 87 Hz***	
46.7	**1.03**	**3233**	30.8	429	6,387	93-113	81.1	0.96
46.9	**1.85**	**3333**	30.6	427	10,539	95-115	81.5	1.72
46.2	**3.11**	**3433**	31	433	14,876	97-117	80.4	2.67
47.1	**6**	**3533**	30.5	425	22,283	99-119	81.8	6
46.8	**9**	**3633**	30.7	427	35,061	101-121		
52.6	**1.16**	**3233**	27.3	380	6,355	93-113	91.5	1.05
50.0	**1.97**	**3333**	28.7	400	10,650	95-115	86.9	1.80
50.3	**3.43**	**3433**	28.6	398	14,578	97-117	87.3	2.93
51.7	**10**	**3633**	27.7	386	35,171	101-121		
55.1	**0.98**	**3232**	26	367	7,582	91-111	95.8	0.99
59.6	**1.31**	**3233**	24.1	336	6,300	93-113	103	1.14
59.1	**2.32**	**3333**	24.3	339	10,970	95-115	103	2.02
58.0	**3.79**	**3433**	24.8	345	14,069	97-117	101	3.24
55.0	**6.71**	**3533**	26.1	363	22,492	99-119	95.6	7
64.6	**1.15**	**3232**	22.2	313	7,740	91-111	112	1.16
62.8	**1.37**	**3233**	22.9	319	6,269	93-113	109	1.18
61.7	**2.15**	**3333**	23.3	324	11,039	95-115	107	2.09
67.3	**4**	**3433**	21.3	297	13,537	97-117	117	3.48
72.7	**1.30**	**3232**	19.7	278	7,837	91-111	123	1.28
70.5	**1.49**	**3233**	20.4	284	6,192	93-113	126	1.30
68.3	**2.37**	**3333**	21	293	11,098	95-115	119	2.27
70.7	**2.67**	**3333**	20.3	283	11,005	95-115	123	2.29
71.6	**4**	**3433**	20.1	280	13,319	97-117	124	3.75
80.9	**1.44**	**3232**	17.7	250	7,916	91-111	141	1.45
77.1	**2.67**	**3333**	18.6	259	10,773	95-115	134	2.50
82.0	**5**	**3433**	17.5	244	12,840	97-117	142	3.99
79.4	**9**	**3633**	18.1	252	35,531	101-121		
89.0	**0.79**	**3132**	16.1	227	5,511	89-109		
91.9	**1.64**	**3232**	15.6	220	8,002	91-111	160	1.65
89.0	**1.77**	**3233**	16.1	225	5,989	93-113	155	1.51
89.2	**3.16**	**3333**	16.1	224	10,393	95-115	155	2.70
92.5	**5**	**3433**	15.5	216	12,423	97-117	161	4
91.8	**9**	**3633**	15.6	218	35,622	101-121		
100	**0.86**	**3132**	14.3	202	5,600	89-109		
102	**1.82**	**3232**	14.1	198	8,064	91-111	177	1.83
97.2	**3.34**	**3333**	14.8	206	10,168	95-115	169	2.94
94.6	**5**	**3433**	15.2	212	12,348	97-117	164	4
102	**10**	**3633**	14.1	197	35,678	101-121		
115	**0.94**	**3132**	12.5	176	5,698	89-109	200	0.80
116	**2.07**	**3232**	12.4	175	8,129	91-111	201	2.08
116	**3.87**	**3333**	12.3	172	9,694	95-115	202	3.33
117	**6**	**3433**	12.3	171	11,637	97-117	203	5
130	**1.02**	**3132**	11	155	5,777	89-109	227	0.87
124	**2.21**	**3232**	11.6	163	8,163	91-111	215	2.22
148	**1.10**	**3132**	9.72	137	5,846	89-109	257	0.94
143	**2.54**	**3232**	10.1	142	8,223	91-111	248	2.56
147	**5**	**3333**	9.78	136	9,103	95-115	255	3.92
151	**7**	**3433**	9.51	133	10,800	97-117	262	6
166	**1.19**	**3132**	8.62	122	5,906	89-109	289	1.02
163	**2.90**	**3232**	8.83	124	8,271	91-111	283	2.92
188	**1.29**	**3132**	7.62	107	5,961	89-109	327	1
180	**3.21**	**3232**	7.97	112	8,305	91-111	313	3
199	**1.33**	**3132**	7.23	102	5,983	89-109	345	1
203	**3.63**	**3232**	7.05	99	8,342	91-111	354	3.63
223	**1.43**	**3132**	6.43	91	6,027	89-109	388	1.22
217	**3.87**	**3232**	6.61	93	8,359	91-111	377	3.79
256	**5**	**3232**	5.6	79	8,305	91-111	446	4
281	**1.64**	**3132**	5.1	72	6,101	89-109	489	1
307	**5**	**3232**	4.68	66	7,920	91-111	533	5
387	**6**	**3232**	3.71	52	7,444	91-111	673	5

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
3 kW - 50 Hz		LSES 100 LG IFT/IE3 LS 100 L FFB3 IFT/NIE - LSES 100 LG FFB3 IFT/IE3					**5.22 kW - 87 Hz***	
0.82	**0.83**	**3935**	1,750	32,394	13,107	129		
0.95	**0.96**	**3935**	1,510	27,841	36,088	129		
1.02	**1.03**	**3935**	1,400	25,943	44,019	129		
1.17	**1.18**	**3935**	1,230	22,718	55,635	129		
1.32	**1.33**	**3935**	1,090	20,079	63,659	129		
1.49	**0.83**	**3835**	962	17,799	39,408	129		
1.48	**1.50**	**3935**	968	17,880	69,518	129		
1.69	**0.94**	**3835**	848	15,683	41,556	129		
1.66	**1.67**	**3935**	867	16,019	74,000	129		
1.81	**1.00**	**3835**	793	14,676	42,569	129		
1.93	**1.95**	**3935**	742	13,709	79,094	129		
2.09	**1.16**	**3835**	688	12,733	44,507	129		
2.01	**2.03**	**3935**	713	13,184	80,196	129		
2.38	**1.32**	**3835**	604	11,171	46,047	129		
2.30	**2.32**	**3935**	625	11,544	83,532	129		
2.50	**0.83**	**3735**	573	10,601	23,594	129		
2.69	**1.48**	**3835**	534	9,888	47,302	129		
2.60	**2.62**	**3935**	552	10,203	86,179	129		
2.78	**0.92**	**3735**	516	9,544	25,945	129		
3.06	**1.69**	**3835**	469	8,675	48,479	129		
2.92	**2.94**	**3935**	492	9,086	88,353	129		
3.16	**1.04**	**3735**	455	8,410	28,459	129		
3.39	**1.87**	**3835**	424	7,836	49,289	129		
3.26	**3.28**	**3935**	441	8,140	90,185	129		
3.37	**1.11**	**3735**	425	7,870	29,651	129		
3.83	**2.11**	**3835**	375	6,933	50,155	129		
3.66	**3.63**	**3935**	392	7,247	91,920	129		
3.89	**1.28**	**3735**	369	6,828	31,948	129		
4.08	**2.25**	**3835**	351	6,500	50,569	129		
4.28	**4**	**3935**	336	6,202	93,967	129		
4.35	**1.38**	**3735**	330	6,103	33,540	129		
4.83	**2.66**	**3835**	297	5,501	51,519	129		
4.89	**0.86**	**3635**	294	4,983	22,924	129		
4.96	**1.58**	**3735**	289	5,354	35,179	129		
5.16	**2.87**	**3835**	278	5,145	51,856	129		
5.57	**0.96**	**3635**	258	4,487	24,242	129		
5.49	**1.75**	**3735**	261	4,836	36,311	129		
5.50	**3.06**	**3835**	261	4,824	52,160	129		
6.16	**1.09**	**3635**	233	3,953	25,659	129		
6.20	**1.97**	**3735**	231	4,279	37,526	129		
6.50	**3.62**	**3835**	221	4,083	52,858	129		
6.96	**1.16**	**3635**	206	3,699	26,334	129		
6.62	**2.10**	**3735**	217	4,012	38,109	129		
7.39	**4**	**3835**	194	3,591	53,319	129		
8.23	**0.79**	**3535**	174	3,256	12,416	129	14.3	0.79
7.45	**1.34**	**3635**	193	3,209	27,638	129		
7.82	**2.49**	**3735**	184	3,395	39,449	129		
8.40	**5**	**3835**	171	3,162	53,720	129		
9.04	**0.88**	**3533**	159	3,021	13,252	99-119	15.7	0.87
9.15	**1.44**	**3633**	157	2,984	28,237	101-121		
9.47	**2.92**	**3733**	152	2,881	40,563	103-123		
10.7	**1.04**	**3533**	134	2,549	14,923	99-119	18.6	1.03
10.7	**1.68**	**3633**	135	2,561	29,362	101-121		
10.6	**3.28**	**3733**	135	2,564	41,250	103-123		
11.9	**1.16**	**3533**	121	2,295	15,814	99-119	20.7	1.14
11.6	**1.83**	**3633**	124	2,354	29,913	101-121		
11.7	**3.59**	**3733**	123	2,339	41,737	103-123		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
3 kW - 50 Hz		LSES 100 LG IFT/IE3 LS 100 L FFB3 IFT/NIE - LSES 100 LG FFB3 IFT/IE3					**5.22 kW - 87 Hz***	
13.3	**0.79**	**3433**	108	2,053	15,709	97-117	23.1	0.78
13.1	**1.27**	**3533**	109	2,078	16,575	99-119	22.8	1.25
13.3	**2.10**	**3633**	108	2,051	30,721	101-121		
13.2	**4**	**3733**	109	2,068	42,324	103-123		
15.0	**0.89**	**3433**	95.4	1,817	15,834	97-117	26.2	0.88
14.3	**1.38**	**3533**	101	1,915	17,146	99-119	24.8	1.36
15.1	**2.38**	**3633**	95.1	1,809	31,368	101-121		
14.6	**4**	**3733**	98	1,863	42,766	103-123		
16.4	**0.96**	**3433**	87.7	1,670	15,866	97-117	28.4	0.95
16.6	**1.60**	**3533**	86.5	1,646	18,083	99-119	28.8	1.57
16.8	**2.65**	**3633**	85.3	1,624	31,863	101-121		
16.4	**5**	**3733**	87.4	1,661	43,202	103-123		
18.5	**1.09**	**3433**	77.5	1,476	15,840	97-117	32.2	1.05
18.9	**2.98**	**3633**	75.9	1,445	32,339	101-121		
17.8	**1.71**	**3533**	80.6	1,533	18,472	99-119	31.0	1.68
17.9	**5**	**3733**	80.4	1,528	43,490	103-123		
20.8	**1.22**	**3433**	69	1,315	15,759	97-117	36.1	1.15
20.3	**1.94**	**3533**	70.6	1,343	19,132	99-119	35.4	1.90
20.6	**3.25**	**3633**	69.6	1,324	32,663	101-121		
20.9	**5**	**3733**	68.8	1,308	43,963	103-123		
23.2	**1.35**	**3433**	61.9	1,180	15,626	97-117	40.3	1.24
23.0	**2.19**	**3533**	62.4	1,187	19,671	99-119	40.0	2.14
23.9	**3.76**	**3633**	60.1	1,145	33,142	101-121		
22.9	**6**	**3733**	62.8	1,193	44,211	103-123		
26.7	**0.78**	**3333**	53.8	1,025	7,329	95-115		
25.2	**1.47**	**3433**	57	1,086	15,505	97-117	43.7	1.32
25.8	**2.45**	**3533**	55.5	1,057	20,119	99-119	44.9	2.39
26.4	**4**	**3633**	54.4	1,035	33,436	101-121		
25.9	**6**	**3733**	55.5	1,055	44,509	103-123		
28.5	**0.83**	**3333**	50.3	959	7,706	95-115	49.6	0.82
28.3	**1.65**	**3433**	50.6	965	15,288	97-117	49.3	1.43
28.8	**2.72**	**3533**	49.8	947	20,497	99-119	50.1	2.66
29.6	**4**	**3633**	48.5	923	33,736	101-121		
28.7	**7**	**3733**	50	950	44,734	103-123		
32.9	**0.96**	**3333**	43.7	832	8,418	95-115	57.1	0.94
32.5	**1.83**	**3433**	44.1	840	14,993	97-117	56.6	1.57
33.7	**3.15**	**3533**	42.6	810	20,965	99-119	58.6	3.08
33.0	**5**	**3633**	43.5	828	33,988	101-121		
32.2	**7**	**3733**	44.6	847	44,955	103-123		
37.5	**1.09**	**3333**	38.3	730	8,973	95-115	65.1	1.05
36.0	**1.98**	**3433**	39.9	760	14,758	97-117	62.5	1.69
37.5	**3.41**	**3533**	38.2	727	21,249	99-119	65.2	3.33
37.0	**5**	**3633**	38.7	737	34,232	101-121		
35.0	**8**	**3733**	41	779	45,101	103-123		
41.5	**1.20**	**3333**	34.6	659	9,349	95-115	72.1	1.14
41.3	**2.19**	**3433**	34.8	662	14,405	97-117	71.7	1.86
42.2	**3.81**	**3533**	34	648	21,521	99-119	73.3	3.72
40.4	**6**	**3633**	35.5	675	34,397	101-121		
46.9	**1.35**	**3333**	30.6	583	9,746	95-115	81.5	1.25
46.2	**2.27**	**3433**	31	591	14,095	97-117	80.4	1.95
47.1	**4**	**3533**	30.5	580	21,752	99-119	81.8	4
46.8	**7**	**3633**	30.7	584	34,642	101-121		
52.6	**0.85**	**3233**	27.3	520	7,180	93-113		
50.0	**1.44**	**3333**	28.7	547	9,934	95-115	86.9	1.31
50.3	**2.51**	**3433**	28.6	544	13,860	97-117	87.3	2.13
51.7	**7**	**3633**	27.7	528	34,792	101-121		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
3 kW - 50 Hz		LSES 100 LG IFT/IE3 LS 100 L FFB3 IFT/NIE - LSES 100 LG FFB3 IFT/IE3					**5.22 kW - 87 Hz***	
59.6	**0.96**	**3233**	24.1	459	5,430	93-113	103	0.83
59.1	**1.69**	**3333**	24.3	463	10,359	95-115	103	1.47
58.0	**2.77**	**3433**	24.8	472	13,449	97-117	101	2.36
55.0	**5**	**3533**	26.1	497	22,037	99-119	95.6	5
64.6	**0.84**	**3232**	22.2	428	7,397	91-111	112	0.85
62.8	**1.00**	**3233**	22.9	436	5,440	93-113	109	0.86
61.7	**1.57**	**3333**	23.3	443	10,456	95-115	107	1.52
67.3	**2.98**	**3433**	21.3	406	13,000	97-117	117	2.54
72.7	**0.95**	**3232**	19.7	380	7,542	91-111	126	0.95
70.5	**1.09**	**3233**	20.4	388	5,455	93-113	123	0.94
70.7	**1.95**	**3333**	20.3	387	10,419	95-115	123	1.67
71.6	**3.21**	**3433**	20.1	382	12,816	97-117	124	2.73
80.9	**1.06**	**3232**	17.7	342	7,655	91-111	141	1.06
77.1	**1.96**	**3333**	18.6	354	10,244	95-115	134	1.82
82.0	**3.42**	**3433**	17.5	334	12,400	97-117	142	2.91
79.4	**6**	**3633**	18.1	344	35,283	101-121		
91.9	**1.20**	**3232**	15.6	301	7,771	91-111	160	1.20
89.0	**1.30**	**3233**	16.1	307	5,407	93-113	155	1.10
89.2	**2.31**	**3333**	16.1	307	9,930	95-115	155	1.97
92.5	**3.85**	**3433**	15.5	296	12,033	97-117	161	3.27
91.8	**7**	**3633**	15.6	298	35,408	101-121		
102	**1.33**	**3232**	14.1	271	7,857	91-111	177	1.34
97.2	**2.45**	**3333**	14.8	281	9,744	95-115	169	2.14
94.6	**3.78**	**3433**	15.2	289	11,968	97-117	164	3.22
102	**7**	**3633**	14.1	269	35,485	101-121		
116	**1.51**	**3232**	12.4	239	7,948	91-111	201	1.52
116	**2.83**	**3333**	12.3	235	9,343	95-115	202	2.43
117	**4**	**3433**	12.3	234	11,325	97-117	203	3.7
124	**1.62**	**3232**	11.6	223	7,990	91-111	215	1.62
148	**0.81**	**3132**	9.72	187	5,657	89-109		
143	**1.86**	**3232**	10.1	194	8,075	91-111	248	1.87
147	**3.36**	**3333**	9.78	186	8,819	95-115	255	2.86
151	**5**	**3433**	9.51	181	10,561	97-117	262	4
166	**0.87**	**3132**	8.62	166	5,736	89-109		
163	**2.12**	**3232**	8.83	170	8,141	91-111	283	2.13
188	**0.95**	**3132**	7.62	147	5,809	89-109	327	0.81
180	**2.35**	**3232**	7.97	154	8,189	91-111	313	2.36
199	**0.98**	**3132**	7.23	139	5,838	89-109	345	0.83
203	**2.66**	**3232**	7.05	136	8,240	91-111	354	2.65
223	**1.05**	**3132**	6.43	124	5,897	89-109	388	0.89
217	**2.83**	**3232**	6.61	127	8,263	91-111	377	2.77
256	**3.35**	**3232**	5.6	108	8,136	91-111	446	3.13
281	**1.20**	**3132**	5.1	98	5,997	89-109	489	1.02
307	**3.98**	**3232**	4.68	90	7,780	91-111	533	3.43
387	**5**	**3232**	3.71	71	7,333	91-111	673	3.92

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
4 kW - 50 Hz		LSES 112 MU IFT/IE3 LS 112 MG FFB3 IFT/NIE - LSES 112 MU FFB3 IFT/IE3					**6.96 kW - 87 Hz***	
1.16	**0.88**	**3935**	1,230	30,443	23,688	129		
1.32	**0.99**	**3935**	1,090	26,907	40,102	129		
1.48	**1.12**	**3935**	968	23,960	51,420	129		
1.65	**1.25**	**3935**	867	21,466	59,590	129		
1.93	**1.46**	**3935**	742	18,371	68,267	129		
2.08	**0.86**	**3835**	688	17,057	40,164	129		
2.00	**1.51**	**3935**	713	17,666	70,052	129		
2.37	**0.98**	**3835**	604	14,965	42,279	129		
2.29	**1.73**	**3935**	625	15,470	75,253	129		
2.68	**1.11**	**3835**	534	13,246	43,997	129		
2.59	**1.96**	**3935**	552	13,673	79,171	129		
3.05	**1.26**	**3835**	469	11,622	45,604	129		
2.91	**2.2**	**3935**	492	12,176	82,264	129		
3.38	**1.39**	**3835**	424	10,497	46,708	129		
3.25	**2.45**	**3935**	441	10,908	84,795	129		
3.36	**0.83**	**3735**	425	10,543	23,723	129		
3.82	**1.58**	**3835**	375	9,288	47,886	129		
3.65	**2.71**	**3935**	392	9,711	87,139	129		
3.87	**0.96**	**3735**	369	9,147	26,827	129		
4.07	**1.68**	**3835**	351	8,707	48,449	129		
4.26	**3.17**	**3935**	336	8,311	89,854	129		
4.34	**1.03**	**3735**	330	8,176	28,977	129		
4.81	**1.99**	**3835**	297	7,369	49,737	129		
4.70	**3.50**	**3935**	304	7,528	91,373	129		
4.94	**1.18**	**3735**	289	7,173	31,189	129		
5.14	**2.14**	**3835**	278	6,893	50,194	129		
5.33	**3.97**	**3935**	268	6,639	93,108	129		
5.47	**1.30**	**3735**	261	6,479	32,715	129		
5.48	**2.29**	**3835**	261	6,462	50,605	129		
5.95	**4**	**3935**	240	5,951	94,464	129		
6.14	**0.81**	**3635**	233	5,297	22,094	129		
6.18	**1.47**	**3735**	231	5,732	34,352	129		
6.48	**2.70**	**3835**	221	5,469	51,549	129		
6.68	**5**	**3935**	214	5,297	95,768	129		
6.94	**0.87**	**3635**	206	4,956	22,996	129		
6.60	**1.57**	**3735**	217	5,374	35,136	129		
7.37	**3.06**	**3835**	194	4,810	52,173	129		
7.48	**6**	**3935**	191	4,737	96,900	129		
7.42	**1.00**	**3635**	193	4,300	24,739	129		
7.79	**1.86**	**3735**	184	4,548	36,940	129		
8.37	**3.47**	**3835**	171	4,235	52,714	129		
9.12	**1.08**	**3633**	157	3,999	25,535	101-121		
9.43	**2.18**	**3733**	152	3,863	38,432	103-123		
9.31	**3.78**	**3833**	154	3,911	53,019	105-125		
10.6	**1.25**	**3633**	135	3,433	27,042	101-121		
10.6	**2.44**	**3733**	135	3,438	39,356	103-123		
10.4	**4**	**3833**	137	3,500	53,404	105-125		
11.9	**0.86**	**3533**	121	3,077	13,053	99-119	20.7	0.85
11.6	**1.36**	**3633**	124	3,156	27,779	101-121		
11.6	**2.68**	**3733**	123	3,136	40,011	103-123		
11.1	**5**	**3833**	128	3,270	53,619	105-125		
13.1	**0.95**	**3533**	109	2,785	14,086	99-119	22.9	0.93
13.3	**1.56**	**3633**	108	2,750	28,860	101-121		
13.2	**3.02**	**3733**	109	2,773	40,799	103-123		
12.4	**5**	**3833**	115	2,928	53,938	105-125		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
4 kW - 50 Hz		LSES 112 MU IFT/IE3 LS 112 MG FFB3 IFT/NIE - LSES 112 MU FFB3 IFT/IE3					**6.96 kW - 87 Hz***	
14.2	**1.03**	**3533**	101	2,566	14,859	99-119	24.9	1.01
15.0	**1.77**	**3633**	95.1	2,425	29,726	101-121		
14.6	**3.34**	**3733**	98	2,498	41,394	103-123		
14.0	**6**	**3833**	102	2,594	54,250	105-125		
16.5	**1.19**	**3533**	86.5	2,206	16,127	99-119	28.9	1.17
16.8	**1.98**	**3633**	85.3	2,176	30,389	101-121		
16.4	**3.74**	**3733**	87.4	2,227	41,979	103-123		
15.7	**6**	**3833**	90.8	2,314	54,510	105-125		
18.5	**0.81**	**3433**	77.5	1,977	17,799	97-117		
17.8	**1.27**	**3533**	80.6	2,055	16,653	99-119	31.1	1.25
18.8	**2.22**	**3633**	75.9	1,937	31,026	101-121		
17.8	**4**	**3733**	80.4	2,048	42,366	103-123		
17.8	**7**	**3833**	80.5	2,051	54,754	105-125		
20.7	**0.91**	**3433**	69	1,762	13,533	97-117	36.3	0.86
20.3	**1.45**	**3533**	70.6	1,800	17,545	99-119	35.5	1.42
20.6	**2.42**	**3633**	69.6	1,775	31,459	101-121		
20.7	**5**	**3733**	68.9	1,757	42,995	103-123		
19.8	**8**	**3833**	72.2	1,838	54,952	105-125		
23.1	**1.01**	**3433**	61.9	1,581	13,630	97-117	40.4	0.92
22.9	**1.63**	**3533**	62.4	1,591	18,272	99-119	40.1	1.59
23.8	**2.80**	**3633**	60.1	1,534	32,101	101-121		
22.6	**5**	**3733**	63.2	1,611	43,309	103-123		
22.2	**9**	**3833**	64.3	1,639	55,136	105-125		
25.1	**1.10**	**3433**	57	1,455	13,660	97-117	43.9	0.98
25.8	**1.82**	**3533**	55.5	1,416	18,876	99-119	45.1	1.78
26.3	**3.10**	**3633**	54.4	1,387	32,495	101-121		
25.6	**6**	**3733**	55.9	1,425	43,711	103-123		
25.1	**9**	**3833**	57	1,452	55,308	105-125		
28.2	**1.23**	**3433**	50.6	1,292	13,650	97-117	49.4	1.06
28.7	**2.03**	**3533**	49.8	1,269	19,386	99-119	50.3	1.98
29.9	**3.52**	**3633**	47.8	1,220	32,940	101-121		
30.0	**6**	**3733**	47.7	1,217	44,160	103-123		
28.5	**10**	**3833**	50.1	1,277	55,470	105-125		
32.4	**1.37**	**3433**	44.1	1,126	13,567	97-117	56.7	1.17
33.6	**2.35**	**3533**	42.6	1,086	20,017	99-119	58.8	2.29
32.4	**3.82**	**3633**	44.1	1,125	33,195	101-121		
33.7	**7**	**3733**	42.5	1,082	44,449	103-123		
32.4	**11**	**3833**	44.2	1,125	55,611	105-125		
37.3	**0.81**	**3333**	38.3	978	7,596	95-115	65.3	0.78
35.8	**1.48**	**3433**	39.9	1,018	13,464	97-117	62.7	1.26
37.1	**2.59**	**3533**	38.6	984	20,369	99-119	64.9	2.48
36.5	**4**	**3633**	39.2	1,000	33,529	101-121		
34.9	**6**	**3733**	41	1,045	44,530	103-123		
35.3	**14**	**3833**	40.6	1,033	55,695	105-125		
41.3	**0.90**	**3333**	34.6	883	8,131	95-115	72.3	0.85
41.1	**1.63**	**3433**	34.8	888	13,278	97-117	72.0	1.38
42.1	**2.92**	**3533**	34	868	20,768	99-119		
40.9	**5**	**3633**	35	893	33,816	101-121		
40.7	**6**	**3733**	35.2	896	44,850	103-123		
39.3	**15**	**3833**	36.4	926	55,794	105-125		
46.7	**1.01**	**3333**	30.6	782	8,692	95-115	81.7	0.93
45.4	**1.75**	**3433**	31.5	804	13,113	97-117	79.5	1.48
46.9	**3.24**	**3533**	30.49	778	21,076	99-119	82.1	2.98
45.6	**5**	**3633**	31.4	800	34,064	101-121		
44.3	**7**	**3733**	32.2	822	45,010	103-123		
44.1	**17**	**3833**	32.4	826	55,886	105-125		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
4 kW - 50 Hz		LSES 112 MU IFT/IE3 LS 112 MG FFB3 IFT/NIE - LSES 112 MU FFB3 IFT/IE3					**6.96 kW - 87 Hz***	
49.8	**1.08**	**3333**	28.7	733	8,957	95-115	87.2	0.97
50.1	**1.87**	**3433**	28.6	729	12,935	97-117	87.6	1.59
52.7	**3.62**	**3533**	27.1	692	21,369	99-119	92.2	3.23
50.0	**6**	**3633**	28.6	730	34,252	101-121		
50.1	**7**	**3733**	28.5	727	45,214	103-123		
49.8	**17**	**3833**	28.7	732	55,972	105-125		
58.9	**1.26**	**3333**	24.3	620	9,554	95-115	103	1.10
57.8	**2.07**	**3433**	24.8	632	12,642	97-117	101	1.75
58.9	**4**	**3533**	24.3	619	21,420	99-119	103	3.5
57.2	**7**	**3633**	25	637	34,498	101-121		
58.7	**8**	**3733**	24.4	621	45,442	103-123		
56.6	**20**	**3833**	25.3	643	56,054	105-125		
61.4	**1.17**	**3333**	23.3	594	9,688	95-115	107	1.13
67.1	**2.23**	**3433**	21.3	544	12,306	97-117	117	1.88
60.5	**4**	**3533**	23.6	603	21,275	99-119	106	3.84
63.6	**6**	**3633**	22.5	574	34,669	101-121		
66.0	**9**	**3733**	21.7	552	45,590	103-123		
64.3	**21**	**3833**	22.2	567	56,124	105-125		
70.5	**1.46**	**3333**	20.3	518	9,669	95-115	123	1.24
74.1	**2.39**	**3433**	19.3	493	12,066	97-117	130	2.02
68.6	**5**	**3533**	20.8	532	20,574	99-119	120	4
71.5	**7**	**3633**	20	510	34,839	101-121		
72.9	**24**	**3833**	19.6	500	56,186	105-125		
80.6	**0.79**	**3232**	17.7	458	7,300	91-111	141	0.79
76.9	**1.46**	**3333**	18.6	475	9,550	95-115	135	1.35
81.7	**2.56**	**3433**	17.5	447	11,829	97-117	143	2.16
76.5	**5**	**3533**	18.7	477	19,970	99-119	134	5
79.8	**6**	**3733**	17.9	457	45,795	103-123		
80.1	**8**	**3633**	17.9	455	34,986	101-121		
80.4	**25**	**3833**	17.8	453	56,228	105-125		
91.6	**0.90**	**3232**	15.6	403	7,472	91-111	160	0.9
88.9	**1.73**	**3333**	16.1	411	9,332	95-115	155	1.46
92.2	**2.87**	**3433**	15.5	396	11,525	97-117	161	2.43
86.0	**6**	**3533**	16.6	424	19,342	99-119	150	5
87.0	**7**	**3733**	16.4	419	45,876	103-123		
89.4	**8**	**3633**	16	408	35,112	101-121		
92.1	**28**	**3833**	15.5	396	56,281	105-125		
102	**0.99**	**3232**	14.1	363	7,593	91-111	178	0.99
96.9	**1.83**	**3333**	14.8	377	9,191	95-115	170	1.59
94.2	**2.82**	**3433**	15.2	387	11,470	97-117	165	2.39
96.1	**6**	**3533**	14.9	379	18,740	99-119	168	5
98.4	**7**	**3733**	14.5	370	45,980	103-123		
98.0	**8**	**3633**	14.6	372	35,208	101-121		
103	**30**	**3833**	13.9	354	56,320	105-125		
115	**1.13**	**3232**	12.4	320	7,715	91-111	202	1.13
116	**2.11**	**3333**	12.3	315	8,880	95-115	203	1.81
116	**3.27**	**3433**	12.3	314	10,920	97-117	204	2.77
116	**7**	**3533**	12.3	313	17,740	99-119	204	6
115	**8**	**3733**	12.4	316	46,096	103-123		
112	**9**	**3633**	12.7	325	35,334	101-121		
116	**33**	**3833**	12.4	315	56,355	105-125		
123	**1.21**	**3232**	11.6	299	7,774	91-111	216	1.21
125	**6**	**3633**	11.5	292	35,422	101-121		
130	**9**	**3733**	11	281	46,171	103-123		
129	**34**	**3833**	11.1	283	56,384	105-125		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
4 kW - 50 Hz		LSES 112 MU IFT/IE3 LS 112 MG FFB3 IFT/NIE - LSES 112 MU FFB3 IFT/IE3					**6.96 kW - 87 Hz***	
142	**1.39**	**3232**	10.1	260	7,885	91-111	249	1.39
146	**2.51**	**3333**	9.78	250	8,451	95-115	256	2.12
150	**3.92**	**3433**	9.51	243	10,246	97-117	263	3.32
151	**9**	**3533**	9.47	242	16,440	99-119	264	7
140	**7**	**3633**	10.2	260	35,509	101-121		
145	**24**	**3833**	9.86	251	56,414	105-125		
162	**1.58**	**3232**	8.83	228	7,976	91-111	283	1.58
157	**8**	**3633**	9.1	232	35,583	101-121		
160	**25**	**3833**	8.94	228	56,435	105-125		
179	**1.75**	**3232**	7.97	206	8,038	91-111	314	1.75
175	**8**	**3633**	8.15	208	35,648	101-121		
183	**28**	**3833**	7.8	199	56,462	105-125		
203	**1.98**	**3232**	7.05	182	8,107	91-111	355	1.97
192	**9**	**3633**	7.43	190	35,697	101-121		
205	**30**	**3833**	6.98	178	56,481	105-125		
216	**2.11**	**3232**	6.61	171	8,138	91-111	378	2.06
220	**9**	**3633**	6.5	166	35,761	101-121		
256	**2.50**	**3232**	5.6	144	7,909	91-111	447	2.32
306	**2.97**	**3232**	4.68	121	7,602	91-111	535	2.55
386	**3.44**	**3232**	3.71	96	7,195	91-111	675	2.91

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
5.5 kW - 50 Hz		LSES 132 SM IFT/IE3 LS 132 S FFB3 IFT/NIE - LSES 132 SM FFB4 IFT/IE3					**9.57 kW - 87 Hz***	
1.50	**0.82**	**3935**	968	32,529	12,334	129		
1.67	**0.92**	**3935**	867	29,143	30,113	129		
1.95	**1.07**	**3935**	742	24,941	47,867	129		
2.03	**1.11**	**3935**	713	23,985	51,332	129		
2.32	**1.27**	**3935**	625	21,003	60,984	129		
2.71	**0.81**	**3835**	534	17,979	39,223	129		
2.63	**1.44**	**3935**	552	18,563	67,768	129		
3.09	**0.93**	**3835**	469	15,774	41,464	129		
2.95	**1.62**	**3935**	492	16,530	72,807	129		
3.42	**1.03**	**3835**	424	14,248	42,998	129		
3.29	**1.81**	**3935**	441	14,810	76,723	129		
3.87	**1.16**	**3835**	375	12,606	44,632	129		
3.70	**2.00**	**3935**	392	13,185	80,194	129		
4.13	**1.24**	**3835**	351	11,818	45,410	129		
4.32	**2.33**	**3935**	336	11,283	84,052	129		
4.88	**1.46**	**3835**	297	10,003	47,191	129		
4.77	**2.58**	**3935**	304	10,220	86,146	129		
5.01	**0.87**	**3735**	289	9,736	25,519	129		
5.21	**1.58**	**3835**	278	9,356	47,820	129		
5.41	**2.92**	**3935**	268	9,013	88,494	129		
5.55	**0.96**	**3735**	261	8,794	27,610	129		
5.56	**1.68**	**3835**	261	8,771	48,387	129		
6.03	**3.26**	**3935**	240	8,079	90,303	129		
6.27	**1.08**	**3735**	231	7,781	29,849	129		
6.57	**1.99**	**3835**	221	7,423	49,686	129		
6.78	**3.66**	**3935**	214	7,192	92,028	129		
6.69	**1.16**	**3735**	217	7,294	30,921	129		
7.47	**2.26**	**3835**	194	6,529	50,542	129		
7.58	**4**	**3935**	191	6,431	93,517	129		
7.90	**1.37**	**3735**	184	6,173	33,385	129		
8.49	**2.55**	**3835**	171	5,749	51,284	129		
9.25	**0.79**	**3633**	157	5,431	21,700	101-121		
9.57	**1.60**	**3733**	152	5,247	35,414	103-123		
9.44	**2.78**	**3833**	154	5,312	51,698	105-125		
10.8	**0.92**	**3633**	135	4,662	23,778	101-121		
10.8	**1.80**	**3733**	135	4,670	36,675	103-123		
10.6	**3.10**	**3833**	137	4,755	52,224	105-125		
11.7	**1.00**	**3633**	124	4,285	24,776	101-121		
11.8	**1.97**	**3733**	123	4,259	37,569	103-123		
11.3	**3.32**	**3833**	128	4,442	52,519	105-125		
13.5	**1.15**	**3633**	108	3,734	26,242	101-121		
13.3	**2.22**	**3733**	109	3,766	38,644	103-123		
12.6	**3.70**	**3833**	115	3,978	52,956	105-125		
15.3	**1.31**	**3633**	95.1	3,293	27,415	101-121		
14.8	**2.46**	**3733**	98	3,392	39,455	103-123		
14.2	**4**	**3833**	102	3,523	53,382	105-125		
16.8	**0.88**	**3533**	86.5	2,995	13,290	99-119	29.1	0.85
17.0	**1.46**	**3633**	85.3	2,955	28,313	101-121		
16.6	**2.75**	**3733**	87.4	3,025	40,252	103-123		
16.0	**5**	**3833**	90.8	3,143	53,738	105-125		
18.0	**0.94**	**3533**	80.6	2,791	14,017	99-119	31.3	0.91
19.1	**1.63**	**3633**	75.9	2,631	29,177	101-121		
18.0	**2.99**	**3733**	80.4	2,782	40,779	103-123		
18.0	**5**	**3833**	80.5	2,786	54,071	105-125		
20.6	**1.07**	**3533**	70.6	2,444	15,248	99-119	35.7	1.04
20.8	**1.78**	**3633**	69.6	2,410	29,765	101-121		
21.0	**3.47**	**3733**	68.9	2,386	41,635	103-123		
20.1	**6**	**3833**	72.2	2,497	54,340	105-125		
23.3	**1.20**	**3533**	62.4	2,160	16,249	99-119	40.4	1.17
24.1	**2.06**	**3633**	60.1	2,083	30,636	101-121		
22.9	**3.77**	**3733**	63.2	2,189	42,063	103-123		
22.5	**6**	**3833**	64.3	2,226	54,592	105-125		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
5.5 kW - 50 Hz		LSES 132 SM IFT/IE3 LS 132 S FFB3 IFT/NIE - LSES 132 SM FFB4 IFT/IE3					**9.57 kW - 87 Hz***	
25.4	**0.81**	**3433**	57	1,976	15,264	97-117		
26.1	**1.34**	**3533**	55.5	1,923	17,081	99-119	45.3	1.30
26.7	**2.28**	**3633**	54.4	1,883	31,170	101-121		
25.9	**4.25**	**3733**	55.9	1,936	42,609	103-123		
25.4	**6.88**	**3833**	57	1,973	54,827	105-125		
28.6	**0.91**	**3433**	50.6	1,755	15,376	97-117		
29.2	**1.49**	**3533**	49.8	1,723	17,782	99-119	50.6	1.45
30.3	**2.59**	**3633**	47.8	1,657	31,773	101-121		
30.4	**5**	**3733**	47.7	1,653	43,220	103-123		
28.9	**8**	**3833**	50.1	1,735	55,047	105-125		
32.9	**1.01**	**3433**	44.1	1,528	11,525	97-117	57.1	0.86
34.1	**1.73**	**3533**	42.6	1,475	18,649	99-119	59.1	1.68
32.9	**2.82**	**3633**	44.1	1,527	32,120	101-121		
34.2	**5**	**3733**	42.5	1,470	43,614	103-123		
32.8	**8**	**3833**	44.2	1,528	55,239	105-125		
36.3	**1.08**	**3433**	39.9	1,383	11,614	97-117	63.1	0.92
37.6	**1.90**	**3533**	38.6	1,336	19,132	99-119	65.3	1.82
37.0	**3.17**	**3633**	39.2	1,358	32,573	101-121		
35.4	**4**	**3733**	41	1,419	43,724	103-123		
35.8	**10**	**3833**	40.6	1,400	55,353	105-125		
41.7	**1.20**	**3433**	34.8	1,205	11,664	97-117	72.4	1.01
42.6	**2.15**	**3533**	34	1,178	19,680	99-119	74.0	2.01
41.4	**4**	**3633**	35	1,212	32,962	101-121		
41.2	**5**	**3733**	35.2	1,217	44,159	103-123		
40.0	**11**	**3833**	36.4	1,254	55,488	105-125		
46.1	**1.28**	**3433**	31.5	1,091	11,646	97-117	80.0	1.08
47.6	**2.38**	**3533**	30.49	1,056	20,102	99-119	82.6	2.18
46.2	**3.96**	**3633**	31.4	1,086	33,299	101-121		
45.0	**5**	**3733**	32.2	1,116	44,376	103-123		
44.9	**12**	**3833**	32.4	1,118	55,614	105-125		
50.5	**0.79**	**3333 MI**	28.7	995	7,500	95-115		
50.8	**1.37**	**3433**	28.6	990	11,600	97-117	88.2	1.16
53.4	**2.66**	**3533**	27.1	940	20,504	99-119	92.8	2.36
50.7	**4**	**3633**	28.6	991	33,554	101-121		
50.8	**5**	**3733**	28.5	987	44,654	103-123		
50.6	**13**	**3833**	28.7	991	55,731	105-125		
59.7	**0.93**	**3333 MI**	24.3	842	8,338	95-115	104	0.80
58.6	**1.52**	**3433**	24.8	858	11,485	97-117	102	1.28
59.8	**2.96**	**3533**	24.3	841	20,528	99-119	104	2.56
58.0	**5**	**3633**	25	866	33,888	101-121		
59.5	**6**	**3733**	24.4	843	44,964	103-123		
57.6	**15**	**3833**	25.3	872	55,841	105-125		
62.3	**0.86**	**3333 MI**	23.3	807	8,533	95-115	108	0.83
68.0	**1.63**	**3433**	21.3	739	11,303	97-117	118	1.38
61.3	**2.96**	**3533**	23.6	819	20,405	99-119	107	2.81
64.5	**5**	**3633**	22.5	779	34,119	101-121		
66.9	**6**	**3733**	21.7	750	45,165	103-123		
65.4	**16**	**3833**	22.2	768	55,937	105-125		
71.5	**1.07**	**3333 MI**	20.3	703	8,588	95-115	124	0.91
75.2	**1.75**	**3433**	19.3	669	11,162	97-117	131	1.48
69.6	**3.33**	**3533**	20.8	722	19,803	99-119	121	3.11
72.5	**5**	**3633**	20	693	34,351	101-121		
74.1	**18**	**3833**	19.6	677	56,021	105-125		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
5.5 kW - 50 Hz		LSES 132 SM IFT/IE3 LS 132 S FFB3 IFT/NIE - LSES 132 SM FFB4 IFT/IE3					**9.57 kW - 87 Hz***	
78.0	**1.07**	**3333 MI**	18.6	645	8,559	95-115	135	0.99
82.8	**1.87**	**3433**	17.5	607	11,004	97-117	144	2
77.6	**3.70**	**3533**	18.7	647	19,277	99-119	135	3.38
80.9	**5**	**3733**	17.9	620	45,443	103-123		
81.2	**6**	**3633**	17.9	618	34,550	101-121		
81.5	**18**	**3833**	17.8	616	56,079	105-125		
90.1	**1.27**	**3333 MI**	16.1	558	8,470	95-115	156	1.07
93.5	**2.11**	**3433**	15.5	538	10,789	97-117	162	1.78
87.2	**4**	**3533**	16.6	576	18,719	99-119	151	3.67
88.2	**5**	**3733**	16.4	569	45,554	103-123		
90.7	**6**	**3633**	16	554	34,722	101-121		
93.4	**21**	**3833**	15.5	537	56,151	105-125		
98.2	**1.34**	**3333 MI**	14.8	512	8,403	95-115	171	1.16
95.6	**2.07**	**3433**	15.2	526	10,749	97-117	166	2
97.5	**5**	**3533**	14.9	515	18,183	99-119	169	3.96
100	**5**	**3733**	14.5	503	45,695	103-123		
99.4	**6**	**3633**	14.6	505	34,852	101-121		
104	**22**	**3833**	13.9	480	56,203	105-125		
117	**0.83**	**3232 MI**	12.4	434	7,371	91-111	203	0.83
118	**1.55**	**3333 MI**	12.3	427	8,216	95-115	204	1.32
118	**2.40**	**3433**	12.3	426	10,338	97-117	205	2.03
118	**5**	**3533**	12.3	425	17,275	99-119	205	4.53
117	**6**	**3733**	12.4	430	45,853	103-123		
114	**7**	**3633**	12.7	442	35,023	101-121		
117	**24**	**3833**	12.4	428	56,252	105-125		
125	**0.89**	**3232 MI**	11.6	406	7,457	91-111	217	0.88
127	**5**	**3633**	11.5	397	35,142	101-121		
131	**6**	**3733**	11	382	45,955	103-123		
130	**25**	**3833**	11.1	385	56,291	105-125		
144	**1.02**	**3232 MI**	10.1	352	7,618	91-111	250	1.02
148	**1.84**	**3333 MI**	9.78	339	7,923	95-115	257	1.55
152	**2.87**	**3433**	9.51	330	9,793	97-117	265	2.43
142	**5**	**3633**	10.2	353	35,260	101-121	266	5.44
153	**6**	**3533**	9.47	328	16,075	99-119		
149	**29**	**3833**	9.75	337	56,335	105-125		
164	**1.17**	**3232 MI**	8.83	309	7,740	91-111	285	1.16
159	**6**	**3633**	9.1	315	35,361	101-121		
162	**18**	**3833**	8.94	309	56,360	105-125		
182	**1.29**	**3232 MI**	7.97	279	7,825	91-111	316	1
178	**6**	**3633**	8.15	282	35,449	101-121		
186	**21**	**3833**	7.8	270	56,396	105-125		
206	**1.46**	**3232 MI**	7.05	247	7,802	91-111	357	1.44
195	**7**	**3633**	7.43	258	35,515	101-121		
208	**22**	**3833**	6.98	241	56,423	105-125		
219	**1.56**	**3232 MI**	6.61	232	7,724	91-111	381	1.51
223	**7**	**3633**	6.5	225	35,602	101-121		
233	**24**	**3833**	6.21	215	55,960	105-125		
259	**2**	**3232 MI**	5.6	196	7,520	91-111	450	1.7
259	**25**	**3833**	5.59	193	54,245	105-125		
296	**29**	**3833**	4.9	169	52,175	105-125		
310	**2.19**	**3232 MI**	4.68	164	7,277	91-111	539	1.87
391	**2.52**	**3232 MI**	3.71	130	6,949	91-111	679	2.13

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
7.5 kW - 50 Hz		LSES 132 MU IFT/IE3 LS 132 M FFB4 IFT/NIE - LSES 132 MU FFB4 IFT/IE3					**13.1 kW - 87 Hz***	
1.95	**0.79**	**3935**	742	34,040	3,243	129		
2.03	**0.82**	**3935**	713	32,735	11,135	129		
2.32	**0.93**	**3935**	625	28,666	32,357	129		
2.63	**1.06**	**3935**	552	25,336	46,378	129		
2.95	**1.19**	**3935**	492	22,561	56,147	129		
3.29	**1.32**	**3935**	441	20,213	63,279	129		
3.70	**1.46**	**3935**	392	17,995	69,227	129		
4.32	**1.71**	**3935**	336	15,400	75,410	129		
4.77	**1.89**	**3935**	304	13,949	78,585	129		
5.41	**2.14**	**3935**	268	12,301	82,009	129		
6.03	**2.39**	**3935**	240	11,027	84,560	129		
6.78	**2.68**	**3935**	214	9,815	86,936	129		
7.58	**3**	**3935**	191	8,777	88,952	129		
9.57	**1.18**	**3733**	152	7,163	31,209	103-123		
9.44	**2.04**	**3833**	154	7,254	49,848	105-125		
10.8	**1.32**	**3733**	135	6,375	32,942	103-123		
10.6	**2.27**	**3833**	137	6,493	50,576	105-125		
11.8	**1.44**	**3733**	123	5,815	34,171	103-123		
11.3	**2.43**	**3833**	128	6,066	50,983	105-125		
13.5	**0.84**	**3633**	108	5,097	22,624	101-121		
13.3	**1.63**	**3733**	109	5,141	35,646	103-123		
12.6	**2.71**	**3833**	115	5,431	51,585	105-125		
15.3	**0.96**	**3633**	95.1	4,494	24,221	101-121		
14.8	**1.80**	**3733**	98	4,632	36,758	103-123		
14.2	**3.05**	**3833**	102	4,811	52,172	105-125		
17.0	**1.07**	**3633**	85.3	4,034	25,444	101-121		
16.6	**2.02**	**3733**	87.4	4,130	37,852	103-123		
16.0	**3.41**	**3833**	90.8	4,291	52,661	105-125		
19.1	**1.20**	**3633**	75.9	3,591	26,621	101-121		
18.0	**2.19**	**3733**	80.4	3,798	38,574	103-123		
18.0	**3.84**	**3833**	80.5	3,804	53,119	105-125		
20.6	**0.78**	**3533**	70.6	3,336	12,000	99-119		
20.8	**1.31**	**3633**	69.6	3,290	27,422	101-121		
21.0	**2.54**	**3733**	68.9	3,258	39,747	103-123		
20.1	**4**	**3833**	72.2	3,409	53,489	105-125		
23.3	**0.88**	**3533**	62.4	2,949	13,432	99-119		
24.1	**1.51**	**3633**	60.1	2,844	28,609	101-121		
22.9	**2.76**	**3733**	63.2	2,988	40,332	103-123		
22.5	**5**	**3833**	64.3	3,040	53,834	105-125		
26.1	**0.98**	**3533**	55.5	2,626	14,583	99-119		
26.7	**1.67**	**3633**	54.4	2,571	29,337	101-121		
25.9	**3.11**	**3733**	55.9	2,643	41,080	103-123		
25.4	**5**	**3833**	57	2,694	54,157	105-125		
29.2	**1.09**	**3533**	49.8	2,352	15,552	99-119		
30.3	**1.90**	**3633**	47.8	2,262	30,159	101-121		
30.4	**3.48**	**3733**	47.7	2,256	41,916	103-123		
28.9	**6**	**3833**	50.1	2,369	54,459	105-125		
34.1	**1.27**	**3533**	42.6	2,013	16,750	99-119		
32.9	**2.06**	**3633**	44.1	2,085	30,632	101-121		
34.2	**3.78**	**3733**	42.5	2,007	42,400	103-123		
32.8	**6**	**3833**	44.2	2,086	54,722	105-125		
36.3	**0.79**	**3433**	39.9	1,887	12,904	97-117		
37.6	**1.39**	**3533**	38.6	1,823	17,416	99-119		
37.0	**2.32**	**3633**	39.2	1,853	31,250	101-121		
35.4	**3.09**	**3733**	41	1,937	42,606	103-123		
35.8	**7**	**3833**	40.6	1,913	54,879	105-125		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
7.5 kW - 50 Hz		LSES 132 MU IFT/IE3 LS 132 M FFB4 IFT/NIE - LSES 132 MU FFB4 IFT/IE3					**13.1 kW - 87 Hz***	
41.7	**0.88**	**3433**	34.8	1,645	13,094	97-117		
42.6	**1.57**	**3533**	34	1,608	18,171	99-119		
41.4	**2.60**	**3633**	35	1,655	31,780	101-121		
41.2	**3.42**	**3733**	35.2	1,662	43,200	103-123		
39.9	**8**	**3833**	36.4	1,715	55,063	105-125		
46.1	**0.94**	**3433**	31.5	1,489	9,687	97-117		
47.6	**1.75**	**3533**	30.49	1,442	18,753	99-119		
46.2	**2.90**	**3633**	31.4	1,483	32,239	101-121		
45.0	**3.62**	**3733**	32.2	1,524	43,497	103-123		
44.8	**9**	**3833**	32.4	1,529	55,235	105-125		
50.8	**1.01**	**3433**	28.6	1,351	9,823	97-117	88	0.85
53.4	**1.95**	**3533**	27.1	1,283	19,305	99-119	93	1.73
50.7	**3.18**	**3633**	28.6	1,352	32,587	101-121		
50.8	**3.93**	**3733**	28.5	1,348	43,877	103-123		
50.6	**9**	**3833**	28.7	1,355	55,396	105-125		
58.6	**1.11**	**3433**	24.8	1,171	9,940	97-117	102	0.94
59.8	**2.17**	**3533**	24.3	1,147	19,380	99-119	104	1.87
58.0	**3.64**	**3633**	25	1,182	33,044	101-121		
59.5	**4**	**3733**	24.4	1,151	44,302	103-123		
57.5	**11**	**3833**	25.3	1,192	55,547	105-125		
68.0	**1.20**	**3433**	21.3	1,008	9,978	97-117	118	1.01
64.5	**3.38**	**3633**	22.5	1,064	33,359	101-121		
66.9	**5**	**3733**	21.7	1,024	44,576	103-123		
65.3	**11**	**3833**	22.2	1,049	55,679	105-125		
75.2	**1.28**	**3433**	19.3	913	9,959	97-117	130	1.08
69.6	**2.44**	**3533**	20.8	986	18,819	99-119	121	2.27
72.5	**3.65**	**3633**	20	945	33,675	101-121		
74.0	**13**	**3833**	19.6	926	55,793	105-125		
82.8	**1.37**	**3433**	17.5	828	9,918	97-117	144	1.16
77.6	**2.71**	**3533**	18.7	884	18,397	99-119	135	2.47
80.9	**3.42**	**3733**	17.9	847	44,956	103-123		
81.2	**4**	**3633**	17.9	844	33,946	101-121		
81.5	**13**	**3833**	17.8	841	55,872	105-125		
93.5	**1.54**	**3433**	15.5	734	9,830	97-117	162	1.30
87.2	**3.02**	**3533**	16.6	787	17,936	99-119	151	2.68
88.2	**3.62**	**3733**	16.4	777	45,107	103-123		
90.7	**4**	**3633**	16	756	34,181	101-121		
93.4	**15**	**3833**	15.5	734	55,970	105-125		
95.6	**1.52**	**3433**	15.2	718	9,809	97-117	166	1.28
97.5	**3.35**	**3533**	14.9	703	17,480	99-119	169	2.90
100	**3.93**	**3733**	14.5	687	45,300	103-123		
99.4	**4**	**3633**	14.6	690	34,358	101-121		
104	**16**	**3833**	13.9	656	56,042	105-125		
118	**1.76**	**3433**	12.3	582	9,573	97-117	205	1.48
118	**3.91**	**3533**	12.3	580	16,696	99-119	205	3.32
117	**4**	**3733**	12.4	586	45,516	103-123		
114	**5**	**3633**	12.7	603	34,591	101-121		
117	**18**	**3833**	12.4	584	56,108	105-125		
127	**3.39**	**3633**	11.5	542	34,754	101-121		
131	**5**	**3733**	11	522	45,655	103-123		
130	**18**	**3833**	11.1	525	56,162	105-125		
152	**2.10**	**3433**	9.51	450	9,203	97-117	264	1.77
142	**3.65**	**3633**	10.2	482	34,915	101-121		
153	**5**	**3533**	9.47	448	15,633	99-119	265	3.98
149	**21**	**3833**	9.75	460	56,222	105-125		
159	**4**	**3633**	9.1	430	35,053	101-121		
162	**13**	**3833**	8.94	422	56,256	105-125		
178	**4**	**3633**	8.15	385	35,173	101-121		
186	**15**	**3833**	7.8	369	56,306	105-125		
195	**5**	**3633**	7.43	352	35,263	101-121		
208	**16**	**3833**	6.98	330	56,342	105-125		
223	**5**	**3633**	6.5	307	35,382	101-121		
233	**18**	**3833**	6.21	294	55,790	105-125		
259	**18**	**3833**	5.59	264	54,090	105-125		
296	**21**	**3833**	4.9	231	52,039	105-125		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
9 kW - 50 Hz		**LSES 160 MR IFT/IE3 LS 132 M FFB4 IFT/NIE - LSES 160 MR FFB4 IFT/IE3**					**15.7 kW - 87 Hz***	
2.62	**0.88**	**3935**	552	30,521	23,288	129		
2.94	**0.98**	**3935**	492	27,178	38,959	129		
3.28	**1.10**	**3935**	441	24,349	50,033	129		
3.68	**1.21**	**3935**	392	21,678	58,942	129		
4.31	**1.42**	**3935**	336	18,552	67,798	129		
4.75	**1.57**	**3935**	304	16,804	72,157	129		
5.39	**1.78**	**3935**	268	14,819	76,703	129		
6.01	**1.98**	**3935**	240	13,284	79,987	129		
6.75	**2.23**	**3935**	214	11,824	82,972	129		
7.55	**2.49**	**3935**	191	10,573	85,455	129		
9.41	**1.69**	**3833[1]**	154	8,740	48,417	105-125		
9.28	**2.88**	**3933[1]**	156	8,872	88,767	107-127		
10.7	**1.09**	**3733[1]**	135	7,681	30,069	103-123		
10.5	**1.89**	**3833[1]**	137	7,823	49,301	105-125		
10.4	**3.39**	**3933[1]**	139	7,912	90,627	107-127		
11.7	**1.20**	**3733[1]**	123	7,006	31,500	103-123		
11.3	**2.02**	**3833[1]**	128	7,309	49,796	105-125		
11.8	**3.78**	**3933[1]**	123	6,995	92,412	107-127		
13.3	**1.35**	**3733[1]**	109	6,194	33,340	103-123		
12.6	**2.25**	**3833[1]**	115	6,544	50,527	105-125		
13.2	**4**	**3933**	110	6,254	93,865	107-127		
15.2	**0.79**	**3633[1]**	95.1	5,415	21,781	101-121		
14.8	**1.50**	**3733[1]**	98	5,580	34,685	103-123		
14.2	**2.53**	**3833[1]**	102	5,797	51,238	105-125		
14.7	**5**	**3933**	98.1	5,590	95,182	107-127		
16.9	**0.88**	**3633[1]**	85.3	4,860	23,252	101-121		
16.5	**1.67**	**3733[1]**	87.4	4,976	36,007	103-123		
15.9	**2.83**	**3833**	90.8	5,171	51,832	105-125		
16.5	**5**	**3933**	87.6	4,989	96,389	107-127		
19.0	**0.99**	**3633[1]**	75.9	4,326	24,668	101-121		
18.0	**1.82**	**3733[1]**	80.4	4,576	36,880	103-123		
17.9	**3.18**	**3833**	80.5	4,584	52,386	105-125		
18.5	**6**	**3933**	78.3	4,459	97,466	107-127		
20.8	**1.08**	**3633[1]**	69.6	3,963	25,632	101-121		
21.0	**2.11**	**3733[1]**	68.9	3,925	38,296	103-123		
20.0	**3.52**	**3833**	72.2	4,108	52,834	105-125		
20.7	**6**	**3933**	69.7	3,972	98,470	107-127		
24.0	**1.26**	**3633[1]**	60.1	3,426	27,059	101-121		
22.9	**2.29**	**3733**	63.2	3,600	39,004	103-123		
22.5	**3.83**	**3833**	64.3	3,663	53,252	105-125		
23.3	**7**	**3933**	62.1	3,535	99,384	107-127		
26.0	**0.82**	**3533[1]**	55.5	3,163	12,748	99-119	45.5	0.80
26.6	**1.39**	**3633**	54.4	3,097	27,935	101-121		
25.8	**2.59**	**3733**	55.9	3,184	39,907	103-123		
25.3	**4**	**3833**	57	3,246	53,642	105-125		
26.3	**7**	**3933**	55	3,130	99,857	107-127		
29.0	**0.91**	**3533[1]**	49.8	2,834	13,916	99-119	50.8	0.89
30.2	**1.58**	**3633**	47.8	2,725	28,925	101-121		
30.3	**2.89**	**3733**	47.7	2,719	40,916	103-123		
28.8	**5**	**3833**	50.1	2,855	54,007	105-125		
29.5	**8**	**3933**	48.9	2,786	100,191	107-127		

[1]Ot 3533 to Ot 3933: integrated mounting MI obligatory for frame size 132

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
9 kW - 50 Hz		LSES 160 MR IFT/IE3 LS 132 M FFB4 IFT/NIE - LSES 160 MR FFB4 IFT/IE3					**15.7 kW - 87 Hz***	
33.9	**1.05**	**3533[1]**	42.6	2,425	15,357	99-119	59.3	1.03
32.8	**1.71**	**3633**	44.1	2,512	29,494	101-121		
34.0	**3.14**	**3733**	42.5	2,418	41,567	103-123		
32.7	**5**	**3833**	44.2	2,514	54,325	105-125		
32.4	**9**	**3933**	44.6	2,538	100,432	107-127		
37.5	**1.16**	**3533[1]**	38.6	2,197	16,159	99-119	65.5	1.11
36.9	**1.93**	**3633**	39.2	2,233	30,238	101-121		
38.0	**3.37**	**3733**	38.1	2,168	42,107	103-123		
35.6	**6**	**3833**	40.6	2,309	54,514	105-125		
36.9	**9**	**3933**	39.2	2,233	100,727	107-127		
42.5	**1.31**	**3533[1]**	34	1,937	17,067	99-119	74.2	1.23
41.3	**2.16**	**3633**	35	1,994	30,876	101-121		
42.0	**3.59**	**3733**	34.4	1,961	42,556	103-123		
39.8	**7**	**3833**	36.4	2,069	54,737	105-125		
41.6	**9**	**3933**	34.7	1,977	100,976	107-127		
47.4	**1.45**	**3533[1]**	30.49	1,737	17,766	99-119	82.8	1.33
46.1	**2.41**	**3633**	31.4	1,786	31,429	101-121		
47.6	**3.89**	**3733**	30.4	1,730	43,054	103-123		
44.6	**7**	**3833**	32.4	1,845	54,945	105-125		
46.8	**10**	**3933**	30.9	1,760	101,187	107-127		
53.3	**1.62**	**3533[1]**	27.1	1,546	18,429	99-119	93.1	1.45
50.5	**2.64**	**3633**	28.6	1,629	31,848	101-121		
53.7	**4**	**3733**	26.9	1,531	43,482	103-123		
50.3	**8**	**3833**	28.7	1,635	55,139	105-125		
51.3	**11**	**3933**	28.1	1,603	101,338	107-127		
59.6	**1.80**	**3533[1]**	24.3	1,382	18,510	99-119	104	1.56
57.8	**3.02**	**3633**	25	1,423	32,398	101-121		
60.1	**5**	**3733**	24	1,369	43,832	103-123		
57.7	**9**	**3833**	25.3	1,425	55,321	105-125		
58.0	**12**	**3933**	24.9	1,418	101,518	107-127		
61.1	**1.80**	**3533[1]**	23.6	1,347	18,440	99-119	107	1.72
67.5	**3.41**	**3633**	21.4	1,220	32,940	101-121		
66.7	**3.90**	**3733**	21.7	1,233	44,124	103-123		
65.5	**9**	**3833**	22.2	1,255	55,480	105-125		
64.3	**13**	**3933**	22.5	1,280	101,652	107-127		
69.3	**2.03**	**3533[1]**	20.8	1,188	18,067	99-119	121	1.90
75.2	**3.44**	**3633**	19.2	1,095	33,274	101-121		
74.4	**4**	**3733**	19.4	1,106	44,398	103-123		
73.7	**11**	**3833**	19.6	1,117	55,618	105-125		
73.2	**14**	**3933**	19.7	1,125	101,802	107-127		
77.3	**2.25**	**3533[1]**	18.7	1,065	17,720	99-119	135	2.07
81.0	**3.36**	**3633**	17.9	1,017	33,484	101-121		
82.3	**5**	**3733**	17.6	1,000	44,626	103-123		
81.2	**11**	**3833**	17.8	1,013	55,713	105-125		
86.9	**2.51**	**3533[1]**	16.6	948	17,330	99-119	152	2.24
90.3	**3.48**	**3633**	16	911	33,767	101-121		
93.3	**5**	**3733**	15.5	882	44,880	103-123		
93.0	**13**	**3833**	15.5	884	55,832	105-125		
97.1	**2.79**	**3533[1]**	14.9	847	16,940	99-119	170	2.43
99.0	**3.69**	**3633**	14.6	831	33,981	101-121		
105	**5**	**3733**	13.7	781	45,097	103-123		
104	**14**	**3833**	13.9	790	55,918	105-125		

[1]Ot 3533: integrated mounting MI obligatory for frame size 132

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
9 kW - 50 Hz		LSES 160 MR IFT/IE3 LS 132 M FFB4 IFT/NIE - LSES 160 MR FFB4 IFT/IE3					**15.7 kW - 87 Hz***	
118	**3.25**	**3533**[1]	12.3	699	16,247	99-119	206	2.77
113	**4**	**3633**	12.7	726	34,261	101-121		
118	**6**	**3733**	12.3	698	45,276	103-123		
117	**15**	**3833**	12.4	704	55,998	105-125		
131	**3.90**	**3733**	11.0	629	45,425	103-123		
132	**4**	**3633**	10.9	622	34,539	101-121		
130	**15**	**3833**	11.1	633	56,063	105-125		
142	**3.04**	**3633**	10.2	580	34,651	101-121		
153	**3.92**	**3533**[1]	9.47	540	15,280	99-119	267	3.33
146	**4**	**3733**	9.9	564	45,565	103-123		
150	**17**	**3833**	9.75	550	56,135	105-125		
159	**3.37**	**3633**	9.10	518	34,818	101-121		
161	**5**	**3733**	8.95	510	45,681	103-123		
162	**11**	**3833**	8.94	509	56,177	105-125		
177	**3.49**	**3633**	8.15	464	34,962	101-121		
183	**5**	**3733**	7.9	450	45,810	103-123		
185	**13**	**3833**	7.8	444	56,236	105-125		
194	**4**	**3633**	7.43	424	35,071	101-121		
207	**5**	**3733**	6.99	398	45,921	103-123		
207	**14**	**3833**	6.98	397	56,280	105-125		
222	**4**	**3633**	6.5	370	35,214	101-121		
231	**6**	**3733**	6.25	356	46,011	103-123		
233	**15**	**3833**	6.21	354	55,717	105-125		
260	**4**	**3633**	5.57	317	35,355	101-121		
289	**5**	**3633**	5	285	35,442	101-121		

[1]Ot 3533: integrated mounting MI obligatory for frame size 132

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
11 kW - 50 Hz		LSES 160 M IFT/IE3 LS 160 MP FFB5 IFT/NIE - LSES 160 M FFB5 IFT/IE3					**19.1 kW - 87 Hz***	
2.95	**0.81**	**3935**	492	33,069	9,170	129		
3.30	**0.90**	**3935**	441	29,628	27,774	129		
3.70	**1.00**	**3935**	392	26,377	42,284	129		
4.33	**1.17**	**3935**	336	22,573	56,107	129		
4.78	**1.29**	**3935**	304	20,446	62,611	129		
5.42	**1.46**	**3935**	268	18,031	69,136	129		
6.04	**1.63**	**3935**	240	16,163	73,666	129		
6.79	**1.83**	**3935**	214	14,387	77,644	129		
7.59	**2.05**	**3935**	191	12,865	80,856	129		
9.46	**1.39**	**3833**	154	10,637	46,571	105-125		
9.32	**2.36**	**3933**	156	10,797	85,015	107-127		
10.8	**0.90**	**3733**	135	9,347	26,383	103-123		
10.6	**1.55**	**3833**	137	9,521	47,660	105-125		
10.5	**2.78**	**3933**	139	9,628	87,300	107-127		
11.8	**0.98**	**3733**	123	8,526	28,202	103-123		
11.3	**1.66**	**3833**	128	8,894	48,268	105-125		
11.8	**3.10**	**3933**	123	8,512	89,466	107-127		
13.4	**1.11**	**3733**	109	7,538	30,385	103-123		
12.6	**1.85**	**3833**	115	7,964	49,166	105-125		
13.2	**3.43**	**3933**	110	7,610	91,214	107-127		
14.8	**1.23**	**3733**	98	6,791	32,030	103-123		
14.3	**2.08**	**3833**	102	7,055	50,039	105-125		
14.8	**3.78**	**3933**	98.1	6,802	92,788	107-127		
16.6	**1.37**	**3733**	87.4	6,055	33,645	103-123		
16.0	**2.33**	**3833**	90.8	6,293	50,767	105-125		
16.6	**4**	**3933**	87.6	6,071	94,227	107-127		
19.1	**0.82**	**3633**	75.9	5,264	22,180	101-121		
18.1	**1.49**	**3733**	80.4	5,568	34,711	103-123		
18.0	**2.62**	**3833**	80.5	5,578	51,446	105-125		
18.6	**5**	**3933**	78.3	5,426	95,509	107-127		
20.9	**0.89**	**3633**	69.6	4,823	23,350	101-121		
21.1	**1.73**	**3733**	68.9	4,777	36,441	103-123		
20.1	**2.89**	**3833**	72.2	4,999	51,994	105-125		
20.8	**5**	**3933**	69.7	4,834	96,703	107-127		
24.1	**1.03**	**3633**	60.1	4,169	25,085	101-121		
23.0	**1.88**	**3733**	63.2	4,381	37,304	103-123		
22.6	**3.15**	**3833**	64.3	4,457	52,505	105-125		
23.4	**6**	**3933**	62.1	4,301	97,790	107-127		
26.7	**1.14**	**3633**	54.4	3,769	26,149	101-121		
26.0	**2.12**	**3733**	55.9	3,875	38,407	103-123		
25.5	**3.44**	**3833**	57	3,950	52,982	105-125		
26.4	**6**	**3933**	55	3,809	98,810	107-127		
30.4	**1.30**	**3633**	47.8	3,316	27,352	101-121		
30.4	**2.37**	**3733**	47.7	3,308	39,638	103-123		
29.0	**3.77**	**3833**	50.1	3,474	53,428	105-125		
29.7	**7**	**3933**	48.9	3,391	99,604	107-127		
34.1	**0.87**	**3533**	42.6	2,951	13,500	99-119	59.4	0.84
32.9	**1.41**	**3633**	44.1	3,057	28,043	101-121		
34.2	**2.57**	**3733**	42.5	2,943	40,431	103-123		
32.9	**4**	**3833**	44.2	3,059	53,816	105-125		
32.6	**7**	**3933**	44.6	3,088	99,898	107-127		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
11 kW - 50 Hz		LSES 160 M IFT/IE3 LS 160 MP FFB5 IFT/NIE - LSES 160 M FFB5 IFT/IE3					**19.1 kW - 87 Hz***	
37.7	**0.95**	**3533**	38.6	2,673	14,484	99-119	65.6	0.91
37.0	**1.58**	**3633**	39.2	2,717	28,947	101-121		
38.1	**2.76**	**3733**	38.1	2,639	41,089	103-123		
35.8	**5**	**3833**	40.6	2,810	54,048	105-125		
37.0	**7**	**3933**	39.2	2,717	100,259	107-127		
42.7	**1.07**	**3533**	34	2,357	15,596	99-119	74.3	1.01
41.5	**1.77**	**3633**	35	2,426	29,723	101-121		
42.2	**2.95**	**3733**	34.4	2,386	41,636	103-123		
39.9	**5**	**3833**	36.4	2,518	54,320	105-125		
41.8	**8**	**3933**	34.7	2,406	100,560	107-127		
47.6	**1.19**	**3533**	30.49	2,113	16,452	99-119	82.9	1.1
46.3	**1.98**	**3633**	31.4	2,174	30,396	101-121		
47.8	**3.19**	**3733**	30.4	2,105	42,243	103-123		
44.8	**6**	**3833**	32.4	2,245	54,574	105-125		
47.0	**8**	**3933**	30.9	2,142	100,816	107-127		
53.5	**1.33**	**3533**	27.1	1,881	17,200	99-119	93.2	1.19
50.8	**2.17**	**3633**	28.6	1,983	30,905	101-121		
54.0	**3.44**	**3733**	26.9	1,863	42,765	103-123		
50.6	**6**	**3833**	28.7	1,990	54,811	105-125		
51.6	**9**	**3933**	28.1	1,951	101,001	107-127		
59.8	**1.48**	**3533**	24.3	1,682	17,394	99-119	104	1.29
58.1	**2.48**	**3633**	25	1,732	31,573	101-121		
60.4	**4**	**3733**	24	1,666	43,192	103-123		
57.5	**7**	**3833**	25.3	1,750	55,033	105-125		
58.3	**10**	**3933**	24.9	1,725	101,221	107-127		
61.4	**1.48**	**3533**	23.6	1,639	17,350	99-119	107	1.42
67.8	**2.80**	**3633**	21.4	1,485	32,233	101-121		
67.0	**3.20**	**3733**	21.7	1,501	43,547	103-123		
65.3	**8**	**3833**	22.2	1,541	55,226	105-125		
64.6	**10**	**3933**	22.5	1,558	101,382	107-127		
69.7	**1.67**	**3533**	20.8	1,445	17,107	99-119	121	1.57
75.5	**2.82**	**3633**	19.2	1,333	32,639	101-121		
74.8	**3.43**	**3733**	19.4	1,346	43,882	103-123		
74.0	**9**	**3833**	19.6	1,359	55,394	105-125		
73.5	**11**	**3933**	19.7	1,368	101,566	107-127		
77.7	**1.85**	**3533**	18.7	1,295	16,858	99-119	135	1.7
81.3	**2.76**	**3633**	17.9	1,237	32,895	101-121		
82.7	**4**	**3733**	17.6	1,217	44,159	103-123		
81.6	**9**	**3833**	17.8	1,233	55,511	105-125		
79.4	**12**	**3933**	18.3	1,268	101,663	107-127		
87.3	**2.06**	**3533**	16.6	1,153	16,563	99-119	152	1.84
90.8	**2.86**	**3633**	16	1,109	33,238	101-121		
93.7	**4**	**3733**	15.5	1,074	44,468	103-123		
93.5	**10**	**3833**	15.5	1,076	55,655	105-125		
92.7	**13**	**3933**	15.7	1,086	101,840	107-127		
97.6	**2.29**	**3533**	14.9	1,031	16,255	99-119	170	1.99
100	**3.02**	**3633**	14.6	1,011	33,499	101-121		
106	**4**	**3733**	13.7	951	44,733	103-123		
105	**11**	**3833**	13.9	962	55,761	105-125		
102	**14**	**3933**	14.3	990	99,880	107-127		
118	**2.67**	**3533**	12.3	851	15,676	99-119	206	2.28
114	**3.28**	**3633**	12.7	883	33,840	101-121		
118	**5**	**3733**	12.3	850	44,950	103-123		
117	**12**	**3833**	12.4	857	55,857	105-125		
112	**15**	**3933**	12.9	895	97,060	107-127		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
11 kW - 50 Hz			LSES 160 M IFT/IE3 LS 160 MP FFB5 IFT/NIE - LSES 160 M FFB5 IFT/IE3				**19.1 kW - 87 Hz***	
132	**3.20**	**3733**	11	765	45,132	103-123		
133	**3.59**	**3633**	10.9	757	34,178	101-121		
131	**13**	**3833 MI**	11.1	771	55,937	105-125		
143	**2.49**	**3633**	10.2	706	34,314	101-121		
153	**3.22**	**3533**	9.47	657	14,840	99-119	267	2.74
147	**3.43**	**3733**	9.9	686	45,302	103-123		
150	**14**	**3833 MI**	9.75	672	56,024	105-125		
160	**2.76**	**3633**	9.1	631	34,517	101-121		
162	**4**	**3733**	8.95	620	45,443	103-123		
178	**2.86**	**3633**	8.15	565	34,692	101-121		
184	**4**	**3733**	7.9	547	45,600	103-123		
195	**3**	**3633**	7.43	515	34,825	101-121		
208	**4**	**3733**	6.99	484	45,735	103-123		
224	**3.29**	**3633**	6.5	450	34,999	101-121		
232	**5**	**3733**	6.25	433	45,846	103-123		
261	**3.60**	**3633**	5.57	386	35,171	101-121		
291	**3.83**	**3633**	5	346	35,277	101-121		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
15 kW - 50 Hz		LSES 160 LUR IFT/IE3 LS 160 LR FFB5 IFT/NIE - LSES 160 LUR FFB5 IFT/IE3					**26.1 kW - 87 Hz***	
4.33	**0.86**	**3935**	336	30,753	22,085	129		
4.78	**0.95**	**3935**	304	27,855	36,023	129		
5.42	**1.07**	**3935**	268	24,565	49,252	129		
6.05	**1.20**	**3935**	240	22,020	57,874	129		
6.80	**1.34**	**3935**	214	19,601	64,992	129		
7.60	**1.50**	**3935**	191	17,526	70,399	129		
9.47	**1.02**	**3833**	154	14,494	42,751	105-125		
9.33	**1.73**	**3933**	156	14,710	76,941	107-127		
10.6	**1.14**	**3833**	137	12,974	44,268	105-125		
10.5	**2.04**	**3933**	139	13,119	80,331	107-127		
11.3	**1.22**	**3833**	128	12,120	45,000	105-125		
11.8	**2.28**	**3933**	123	11,597	83,427	107-127		
13.4	**0.81**	**3733**	109	10,270	24,330	103-123		
12.7	**1.36**	**3833**	115	10,852	46,360	105-125		
13.2	**2.52**	**3933**	110	10,369	85,855	107-127		
14.8	**0.90**	**3733**	98	9,253	26,592	103-123		
14.3	**1.53**	**3833**	102	9,613	47,570	105-125		
14.8	**2.77**	**3933**	98.1	9,268	88,000	107-127		
16.6	**1.01**	**3733**	87.4	8,250	28,812	103-123		
16.0	**1.71**	**3833**	90.8	8,575	48,577	105-125		
16.6	**3.06**	**3933**	87.6	8,271	89,931	107-127		
18.1	**1.10**	**3733**	80.4	7,587	30,276	103-123		
18.1	**1.92**	**3833**	80.5	7,602	49,514	105-125		
18.6	**3.38**	**3933**	78.3	7,393	91,635	107-127		
21.1	**1.27**	**3733**	68.9	6,509	32,649	103-123		
20.2	**2.12**	**3833**	72.2	6,812	50,271	105-125		
20.9	**3.73**	**3933**	69.7	6,586	93,000	107-127		
23.0	**1.38**	**3733**	63.2	5,969	33,833	103-123		
22.6	**2.31**	**3833**	64.3	6,074	50,975	105-125		
23.4	**4**	**3933**	62.1	5,861	94,643	107-127		
26.7	**0.84**	**3633**	54.4	5,135	22,523	101-121		
26.0	**1.56**	**3733**	55.9	5,279	35,343	103-123		
25.5	**2.52**	**3833**	57	5,383	51,631	105-125		
26.5	**4**	**3933**	55	5,189	95,984	107-127		
30.4	**0.95**	**3633**	47.8	4,518	24,158	101-121		
30.5	**1.74**	**3733**	47.7	4,508	37,028	103-123		
29.0	**2.76**	**3833**	50.1	4,734	52,244	105-125		
29.7	**5**	**3933**	48.9	4,620	97,137	107-127		
33.0	**1.03**	**3633**	44.1	4,165	25,097	101-121		
34.2	**1.89**	**3733**	42.5	4,009	38,114	103-123		
32.9	**3.02**	**3833**	44.2	4,168	52,777	105-125		
32.6	**5**	**3933**	44.6	4,208	97,983	107-127		
37.1	**1.16**	**3633**	39.2	3,702	26,327	101-121		
38.2	**2.03**	**3733**	38.1	3,595	39,014	103-123		
35.8	**3.74**	**3833**	40.6	3,830	53,095	105-125		
37.1	**5**	**3933**	39.2	3,702	99,033	107-127		
42.8	**0.79**	**3533**	34	3,212	12,574	99-119		
41.6	**1.30**	**3633**	35	3,305	27,381	101-121		
42.2	**2.16**	**3733**	34.4	3,251	39,762	103-123		
40.0	**3.95**	**3833**	36.4	3,432	53,468	105-125		
41.9	**6**	**3933**	34.7	3,278	99,713	107-127		
47.7	**0.87**	**3533**	30.49	2,879	13,756	99-119	83.2	0.80
46.4	**1.45**	**3633**	31.4	2,961	28,296	101-121		
47.9	**2.34**	**3733**	30.4	2,868	40,592	103-123		
44.9	**4**	**3833**	32.4	3,060	53,815	105-125		
47.0	**6**	**3933**	30.9	2,918	100,063	107-127		
53.6	**0.98**	**3533**	27.1	2,563	14,873	99-119	93.4	0.87
50.8	**1.59**	**3633**	28.6	2,701	28,989	101-121		
54.1	**2.52**	**3733**	26.9	2,539	41,305	103-123		
50.6	**5**	**3833**	28.7	2,712	54,140	105-125		
51.7	**7**	**3933**	28.1	2,658	100,315	107-127		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
15 kW - 50 Hz		LSES 160 LUR IFT/IE3 LS 160 LR FFB5 IFT/NIE - LSES 160 LUR FFB5 IFT/IE3					**26.1 kW - 87 Hz***	
59.9	**1.08**	**3533**	24.3	2,292	15,097	99-119	104	0.94
58.2	**1.82**	**3633**	25	2,360	29,899	101-121		
60.5	**3.01**	**3733**	24	2,270	41,888	103-123		
57.6	**5**	**3833**	25.3	2,385	54,444	105-125		
58.4	**7**	**3933**	24.9	2,351	100,613	107-127		
61.5	**1.09**	**3533**	23.6	2,233	15,113	99-119	107	1.04
67.9	**2.06**	**3633**	21.4	2,023	30,600	101-121		
67.1	**2.35**	**3733**	21.7	2,045	42,373	103-123		
65.4	**6**	**3833**	22.2	2,100	54,709	105-125		
64.7	**8**	**3933**	22.5	2,122	100,835	107-127		
69.7	**1.22**	**3533**	20.8	1,969	15,133	99-119	122	1.15
75.6	**2.07**	**3633**	19.2	1,816	31,350	101-121		
74.9	**2.51**	**3733**	19.4	1,834	42,829	103-123		
74.1	**6**	**3833**	19.6	1,852	54,938	105-125		
73.6	**8**	**3933**	19.7	1,865	101,085	107-127		
77.8	**1.36**	**3533**	18.7	1,765	15,090	99-119	136	1.25
81.5	**2.02**	**3633**	17.9	1,686	31,697	101-121		
82.8	**2.98**	**3733**	17.6	1,658	43,208	103-123		
81.7	**7**	**3833**	17.8	1,680	55,098	105-125		
79.5	**9**	**3933**	18.3	1,728	101,218	107-127		
87.4	**1.51**	**3533**	16.6	1,571	14,985	99-119	152	1.35
90.9	**2.10**	**3633**	16	1,511	32,165	101-121		
93.8	**3.10**	**3733**	15.5	1,463	43,629	103-123		
93.6	**8**	**3833**	15.5	1,466	55,295	105-125		
92.8	**10**	**3933**	15.7	1,479	101,459	107-127		
97.8	**1.68**	**3533**	14.9	1,405	14,840	99-119	170	1.46
100	**2.22**	**3633**	14.6	1,378	32,519	101-121		
106	**3.12**	**3733**	13.7	1,295	43,991	103-123		
105	**8.17**	**3833**	13.9	1,311	55,439	105-125		
102	**10.55**	**3933**	14.3	1,349	99,090	107-127		
118	**1.96**	**3533**	12.3	1,159	14,510	99-119	207	1.67
114	**2.41**	**3633**	12.7	1,204	32,984	101-121		
119	**3.57**	**3733**	12.3	1,158	44,287	103-123		
118	**9**	**3833**	12.4	1,167	55,571	105-125		
113	**11**	**3933**	12.9	1,220	96,337	107-127		
132	**2.35**	**3733**	11	1,042	44,536	103-123		
133	**2.64**	**3633**	10.9	1,032	33,444	101-121		
131	**9**	**3833 MI**	11.1	1,050	55,679	105-125		
143	**1.83**	**3633**	10.2	962	33,630	101-121		
153	**2.36**	**3533**	9.47	895	13,937	99-119	268	2.00
147	**2.51**	**3733**	9.9	935	44,767	103-123		
149	**10**	**3833 MI**	9.75	920	55,799	105-125		
160	**2.03**	**3633**	9.1	859	33,906	101-121		
162	**2.98**	**3733**	8.95	845	44,960	103-123		
178	**2.10**	**3633**	8.15	770	34,145	101-121		
184	**3.10**	**3733**	7.9	746	45,174	103-123		
196	**2.47**	**3633**	7.43	702	34,325	101-121		
208	**3.12**	**3733**	6.99	660	45,358	103-123		
224	**2.41**	**3633**	6.5	613	34,563	101-121		
233	**3.34**	**3733**	6.25	590	45,508	103-123		
261	**2.64**	**3633**	5.57	526	34,797	101-121		
291	**2.81**	**3633**	5	472	34,941	101-121		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
18.5 kW - 50 Hz				LSES 180 M IFT/IE3 LS 180 MT FFB5 IFT/NIE			**32.2 kW - 87 Hz***	
5.43	**0.87**	**3935**	268	30,262	24,611	129		
6.06	**0.97**	**3935**	240	27,127	39,173	129		
6.81	**1.09**	**3935**	214	24,146	50,759	129		
7.61	**1.22**	**3935**	191	21,591	59,207	129		
9.48	**0.83**	**3833**	154	17,858	39,348	105-125		
9.35	**1.41**	**3933**	156	18,123	68,902	107-127		
10.6	**0.92**	**3833**	137	15,984	41,252	105-125		
10.5	**1.66**	**3933**	139	16,162	73,668	107-127		
11.3	**0.99**	**3833**	128	14,933	42,311	105-125		
11.9	**1.85**	**3933**	123	14,288	77,859	107-127		
12.7	**1.10**	**3833**	115	13,371	43,873	105-125		
13.3	**2.04**	**3933**	110	12,774	80,500	107-127		
14.3	**1.24**	**3833**	102	11,844	45,385	105-125		
14.8	**2.25**	**3933**	98.1	11,418	83,785	107-127		
16.7	**0.82**	**3733**	87.4	10,164	24,566	103-123		
16.0	**1.38**	**3833**	90.8	10,565	46,642	105-125		
16.6	**2.48**	**3933**	87.6	10,190	86,205	107-127		
18.1	**0.89**	**3733**	80.4	9,347	26,382	103-123		
18.1	**1.56**	**3833**	80.5	9,366	47,811	105-125		
18.6	**2.74**	**3933**	78.3	9,109	88,309	107-127		
21.1	**1.03**	**3733**	68.9	8,019	29,000	103-123		
20.2	**1.72**	**3833**	72.2	8,393	48,753	105-125		
20.9	**3.03**	**3933**	69.7	8,114	90,237	107-127		
23.0	**1.12**	**3733**	63.2	7,354	30,789	103-123		
22.6	**1.87**	**3833**	64.3	7,483	49,628	105-125		
23.5	**3.29**	**3933**	62.1	7,220	91,972	107-127		
26.0	**1.27**	**3733**	55.9	6,504	32,659	103-123		
25.5	**2.05**	**3833**	57	6,632	50,443	105-125		
26.5	**3.59**	**3933**	55	6,393	93,590	107-127		
30.5	**1.41**	**3733**	47.7	5,554	34,744	103-123		
29.0	**2.24**	**3833**	50.1	5,833	51,204	105-125		
29.8	**3.91**	**3933**	48.9	5,692	94,979	107-127		
33.0	**0.84**	**3633**	44.1	5,131	22,534	101-121		
34.3	**1.53**	**3733**	42.5	4,940	36,086	103-123		
33.0	**2.45**	**3833**	44.2	5,136	51,865	105-125		
32.7	**4**	**3933**	44.6	5,184	95,995	107-127		
37.1	**0.94**	**3633**	39.2	4,561	24,046	101-121		
38.2	**1.64**	**3733**	38.1	4,429	37,199	103-123		
35.9	**3.03**	**3833**	40.6	4,718	52,259	105-125		
37.1	**4**	**3933**	39.2	4,561	97,257	107-127		
41.6	**1.06**	**3633**	35	4,072	25,343	101-121		
42.3	**1.75**	**3733**	34.4	4,005	38,123	103-123		
40.1	**3.20**	**3833**	36.4	4,228	52,721	105-125		
41.9	**5**	**3933**	34.7	4,039	98,332	107-127		
46.4	**1.18**	**3633**	31.4	3,648	26,469	101-121		
47.9	**1.90**	**3733**	30.4	3,534	39,148	103-123		
44.9	**3.60**	**3833**	32.4	3,770	53,151	105-125		
47.1	**5**	**3933**	30.9	3,596	99,256	107-127		
53.7	**0.79**	**3533**	27.1	3,157	12,769	99-119		
50.9	**1.29**	**3633**	28.6	3,328	27,321	101-121		
54.1	**2.05**	**3733**	26.9	3,128	40,028	103-123		
50.7	**3.74**	**3833**	28.7	3,341	53,553	105-125		
51.7	**5**	**3933**	28.1	3,275	99,717	107-127		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
18.5 kW - 50 Hz				LSES 180 M IFT/IE3 LS 180 MT FFB5 IFT/NIE				**32.2 kW - 87 Hz***
60.0	**0.88**	**3533**	24.3	2,823	13,954	99-119		
58.3	**1.48**	**3633**	25	2,907	28,440	101-121		
60.6	**2.44**	**3733**	24	2,796	40,748	103-123		
57.6	**4**	**3833**	25.3	2,938	53,929	105-125		
58.5	**6**	**3933**	24.9	2,896	100,085	107-127		
61.6	**0.88**	**3533**	23.6	2,751	13,166	99-119	107	0.84
68.0	**1.67**	**3633**	21.4	2,492	29,546	101-121		
67.2	**1.90**	**3733**	21.7	2,520	41,347	103-123		
65.5	**5**	**3833**	22.2	2,587	54,256	105-125		
64.8	**6**	**3933**	22.5	2,614	100,358	107-127		
69.8	**0.99**	**3533**	20.8	2,426	13,417	99-119	122	0.93
75.7	**1.68**	**3633**	19.2	2,237	30,226	101-121		
75.0	**2.04**	**3733**	19.4	2,259	41,910	103-123		
74.2	**5**	**3833**	19.6	2,282	54,540	105-125		
73.7	**7**	**3933**	19.7	2,297	100,665	107-127	136	1.01
77.9	**1.10**	**3533**	18.7	2,174	13,549	99-119		
81.6	**1.64**	**3633**	17.9	2,077	30,653	101-121		
82.9	**2.42**	**3733**	17.6	2,043	42,378	103-123		
81.8	**5**	**3833**	17.8	2,070	54,737	105-125		
79.6	**7**	**3933**	18.3	2,129	100,829	107-127		
87.5	**1.23**	**3533**	16.6	1,935	13,616	99-119	152	1.10
91.0	**1.70**	**3633**	16	1,861	31,230	101-121		
94.0	**2.51**	**3733**	15.5	1,803	42,897	103-123		
93.7	**6**	**3833**	15.5	1,807	54,981	105-125		
92.9	**8**	**3933**	15.7	1,823	100,910	107-127		
97.9	**1.36**	**3533**	14.9	1,731	13,618	99-119	170	1.18
100	**1.80**	**3633**	14.6	1,697	31,666	101-121		
106	**2.53**	**3733**	13.7	1,596	43,343	103-123		
105	**7**	**3833**	13.9	1,615	55,158	105-125		
102	**9**	**3933**	14.3	1,662	98,390	107-127		
119	**1.59**	**3533**	12.3	1,428	13,500	99-119	207	1.35
114	**1.95**	**3633**	12.7	1,483	32,239	101-121		
119	**2.89**	**3733**	12.3	1,426	43,709	103-123		
118	**7**	**3833**	12.4	1,438	55,321	105-125		
113	**9**	**3933**	12.9	1,503	95,700	107-127		
132	**1.90**	**3733**	11	1,284	44,015	103-123		
133	**2.14**	**3633**	10.9	1,271	32,804	101-121		
131	**7**	**3833 MI**	11.1	1,294	55,455	105-125		
143	**1.48**	**3633**	10.2	1,185	33,033	101-121		
154	**1.91**	**3533**	9.47	1,102	13,157	99-119	268	1.62
147	**2.04**	**3733**	9.9	1,151	44,301	103-123		
149	**8**	**3833 MI**	9.75	1,134	55,602	105-125		
160	**1.64**	**3633**	9.1	1,058	33,373	101-121		
163	**2.42**	**3733**	8.95	1,041	44,538	103-123		
179	**1.70**	**3633**	8.15	948	33,667	101-121		
184	**2.51**	**3733**	7.9	919	44,802	103-123		
196	**2.01**	**3633**	7.43	865	33,890	101-121		
208	**2.53**	**3733**	6.99	813	45,029	103-123		
224	**1.96**	**3633**	6.5	756	34,182	101-121		
233	**2.71**	**3733**	6.25	727	45,214	103-123		
261	**2.14**	**3633**	5.57	648	34,471	101-121		
291	**2.28**	**3633**	5	582	34,648	101-121		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
22 kW - 50 Hz				LSES 180 LUR IFT/IE3 LS 180 LR FCPL 54H1D			**38.3 kW - 87 Hz***	
6.06	**0.82**	**3935**	240	32,265	13,845	129		
6.81	**0.92**	**3935**	214	28,719	32,108	129		
7.61	**1.03**	**3935**	191	25,680	45,051	129		
9.35	**1.18**	**3933**	156	21,556	59,315	107-127		
10.5	**1.39**	**3933**	139	19,224	66,018	107-127		
11.3	**0.83**	**3833**	128	17,762	39,446	105-125		
11.9	**1.55**	**3933**	123	16,994	71,700	107-127		
12.7	**0.92**	**3833**	115	15,904	41,333	105-125		
13.3	**1.72**	**3933**	110	15,194	75,872	107-127		
14.3	**1.04**	**3833**	102	14,088	43,158	105-125		
14.8	**1.18**	**3933**	98.4	13,617	79,288	107-127		
14.8	**1.89**	**3933**	98.1	13,581	79,365	107-127		
16.0	**1.16**	**3833**	90.8	12,566	44,672	105-125		
16.6	**2.09**	**3933**	87.6	12,120	82,375	107-127		
18.1	**1.31**	**3833**	80.5	11,140	46,078	105-125		
18.6	**2.30**	**3933**	78.3	10,834	84,941	107-127		
21.1	**0.87**	**3733**	68.9	9,538	25,959	103-123		
20.2	**1.45**	**3833**	72.2	9,983	47,210	105-125		
20.9	**2.54**	**3933**	69.7	9,651	87,257	107-127		
23.0	**0.94**	**3733**	63.2	8,748	27,711	103-123		
22.6	**1.57**	**3833**	64.3	8,901	48,261	105-125		
23.5	**2.77**	**3933**	62.1	8,588	89,318	107-127		
26.0	**1.06**	**3733**	55.9	7,737	29,946	103-123		
25.5	**1.72**	**3833**	57	7,888	49,239	105-125		
26.5	**3.02**	**3933**	55	7,604	91,000	107-127		
30.5	**1.19**	**3733**	47.7	6,606	32,436	103-123		
29.0	**1.88**	**3833**	50.1	6,938	50,151	105-125		
29.8	**3.28**	**3933**	48.9	6,770	92,851	107-127		
34.3	**1.29**	**3733**	42.5	5,876	34,038	103-123		
33.0	**2.06**	**3833**	44.2	6,109	50,942	105-125		
32.7	**3.51**	**3933**	44.6	6,166	94,039	107-127		
37.1	**0.79**	**3633**	39.2	5,424	21,756	101-121		
38.2	**1.38**	**3733**	38.1	5,269	35,367	103-123		
35.9	**2.55**	**3833**	40.6	5,612	51,414	105-125		
37.1	**3.55**	**3933**	39.2	5,388	95,511	107-127		
41.6	**0.89**	**3633**	35	4,843	23,296	101-121		
42.3	**1.47**	**3733**	34.4	4,764	36,469	103-123		
40.1	**2.69**	**3833**	36.4	5,029	51,966	105-125		
41.9	**4**	**3933**	34.7	4,804	96,763	107-127		
46.4	**0.99**	**3633**	31.4	4,339	24,633	101-121		
47.9	**1.60**	**3733**	30.4	4,203	37,692	103-123		
44.9	**3.03**	**3833**	32.4	4,484	52,480	105-125		
47.1	**4**	**3933**	30.9	4,277	97,841	107-127		
50.9	**1.09**	**3633**	28.6	3,958	25,645	101-121		
54.1	**1.72**	**3733**	26.9	3,721	38,741	103-123		
50.7	**3.15**	**3833**	28.7	3,974	52,960	105-125		
51.7	**4**	**3933**	28.1	3,895	98,631	107-127		
58.3	**1.24**	**3633**	25	3,458	26,975	101-121		
60.6	**2.05**	**3733**	24	3,326	39,600	103-123		
57.6	**3.66**	**3833**	25.3	3,495	53,409	105-125		
58.5	**5**	**3933**	24.9	3,445	99,552	107-127		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
22 kW - 50 Hz				LSES 180 LUR IFT/IE3 LS 180 LR FCPL 54H1D			**38.3 kW - 87 Hz***	
68.0	**1.40**	**3633**	21.4	2,964	28,288	101-121		
67.2	**1.60**	**3733**	21.7	2,997	40,313	103-123		
65.5	**3.86**	**3833**	22.2	3,077	53,799	105-125		
64.8	**5**	**3933**	22.5	3,110	99,877	107-127		
69.8	**0.83**	**3533**	20.8	2,885	11,708	99-119	122	0.78
75.7	**1.41**	**3633**	19.2	2,661	29,096	101-121		
75.0	**1.72**	**3733**	19.4	2,687	40,984	103-123		
74.2	**4**	**3833**	19.6	2,714	54,138	105-125		
73.7	**6**	**3933**	19.7	2,732	100,243	107-127		
77.9	**0.93**	**3533**	18.7	2,586	12,016	99-119	136	0.85
81.6	**1.38**	**3633**	17.9	2,470	29,604	101-121		
82.9	**2.03**	**3733**	17.6	2,430	41,541	103-123		
81.8	**5**	**3833**	17.8	2,462	54,373	105-125		
79.6	**6**	**3933**	18.3	2,532	100,438	107-127		
87.5	**1.03**	**3533**	16.6	2,302	12,250	99-119	153	0.92
91.0	**1.43**	**3633**	16	2,213	30,289	101-121		
94.0	**2.11**	**3733**	15.5	2,144	42,159	103-123		
93.7	**5**	**3833**	15.5	2,149	54,663	105-125		
92.9	**7**	**3933**	15.7	2,168	100,190	107-127		
97.9	**1.15**	**3533**	14.9	2,058	12,396	99-119	171	1.00
100	**1.51**	**3633**	14.6	2,019	30,808	101-121		
106	**2.13**	**3733**	13.7	1,898	42,691	103-123		
105	**6**	**3833**	13.9	1,921	54,875	105-125		
102	**7**	**3933**	14.3	1,976	97,730	107-127		
119	**1.34**	**3533**	12.3	1,699	12,490	99-119	207	1.14
114	**1.64**	**3633**	12.7	1,764	31,489	101-121		
119	**2.43**	**3733**	12.3	1,696	43,126	103-123		
118	**6**	**3833**	12.4	1,711	55,069	105-125		
113	**8**	**3933**	12.9	1,788	95,106	107-127		
132	**1.60**	**3733**	11	1,527	43,491	103-123		
133	**1.80**	**3633**	10.9	1,512	32,161	101-121		
131	**6**	**3833 MI**	11.1	1,539	55,228	105-125		
143	**1.25**	**3633**	10.2	1,410	32,434	101-121		
154	**1.61**	**3533**	9.47	1,311	12,377	99-119	268	1.37
147	**1.72**	**3733**	9.9	1,369	43,831	103-123		
149	**7**	**3833 MI**	9.75	1,348	55,404	105-125		
160	**1.38**	**3633**	9.1	1,259	32,837	101-121		
163	**2.03**	**3733**	8.95	1,238	44,114	103-123		
179	**1.43**	**3633**	8.15	1,128	33,187	101-121		
184	**2.11**	**3733**	7.9	1,093	44,427	103-123		
196	**1.69**	**3633**	7.43	1,029	33,452	101-121		
208	**2.13**	**3733**	6.99	967	44,697	103-123		
224	**1.65**	**3633**	6.5	899	33,799	101-121		
233	**2.28**	**3733**	6.25	864	44,918	103-123		
261	**1.80**	**3633**	5.57	771	34,142	101-121		
291	**1.92**	**3633**	5	692	34,353	101-121		

87Hz 400VY triangle-coupled drive-supplied motor*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
30 kW - 50 Hz				**LSES 200 LU IFT/IE3 LS 200 LT FCPL 54H1D + CDF7**			**52.2 kW - 87 Hz**	
13.3	**1.26**	**3933**	110	20,668	61,969	107-127		
14.9	**1.39**	**3933**	98.1	18,474	68,001	107-127		
16.1	**0.86**	**3833**	90.8	17,095	40,126	105-125		
16.7	**1.53**	**3933**	87.6	16,487	72,908	107-127		
18.1	**0.96**	**3833**	80.5	15,155	42,088	105-125		
18.7	**1.69**	**3933**	78.3	14,737	76,882	107-127		
20.2	**1.06**	**3833**	72.2	13,580	43,665	105-125		
20.9	**1.87**	**3933**	69.7	13,128	80,313	107-127		
22.7	**1.16**	**3833**	64.3	12,109	45,124	105-125		
23.5	**2.03**	**3933**	62.1	11,682	83,257	107-127		
26.1	**0.78**	**3733**	55.9	10,524	23,765	103-123		
25.6	**1.26**	**3833**	57	10,731	46,479	105-125		
26.6	**2.22**	**3933**	55	10,344	85,904	107-127		
30.6	**0.87**	**3733**	47.7	8,986	27,184	103-123		
29.1	**1.38**	**3833**	50.1	9,438	47,741	105-125		
29.8	**2.41**	**3933**	48.9	9,209	88,115	107-127		
34.4	**0.95**	**3733**	42.5	7,992	29,381	103-123		
33.1	**1.51**	**3833**	44.2	8,310	48,833	105-125		
32.8	**2.58**	**3933**	44.6	8,387	89,707	107-127		
38.3	**1.01**	**3733**	38.1	7,167	31,202	103-123		
36.0	**1.87**	**3833**	40.6	7,635	49,483	105-125		
37.2	**2.61**	**3933**	39.2	7,380	91,662	107-127		
42.4	**1.08**	**3733**	34.4	6,480	32,712	103-123		
40.2	**1.98**	**3833**	36.4	6,841	50,243	105-125		
42.1	**2.84**	**3933**	34.7	6,534	93,313	107-127		
48.1	**1.17**	**3733**	30.4	5,718	34,384	103-123		
45.0	**2.22**	**3833**	32.4	6,100	50,950	105-125		
47.2	**3.08**	**3933**	30.9	5,817	94,729	107-127		
51.0	**0.80**	**3633**	28.6	5,384	21,862	101-121		
54.3	**1.26**	**3733**	26.9	5,061	35,820	103-123		
50.8	**2.31**	**3833**	28.7	5,406	51,609	105-125		
51.9	**3.29**	**3933**	28.1	5,298	95,765	107-127		
58.4	**0.91**	**3633**	25	4,704	23,666	101-121		
60.7	**1.51**	**3733**	24	4,524	36,993	103-123		
57.8	**2.69**	**3833**	25.3	4,754	52,225	105-125		
58.6	**4**	**3933**	24.9	4,686	97,002	107-127		
68.2	**1.03**	**3633**	21.4	4,032	25,448	101-121		
64.7	**1.51**	**3733**	22.6	4,246	37,599	103-123		
65.6	**2.84**	**3833**	22.2	4,186	52,760	105-125		
65.0	**4**	**3933**	22.5	4,230	97,937	107-127		
75.9	**1.04**	**3633**	19.2	3,620	26,545	101-121		
73.4	**1.52**	**3733**	19.9	3,745	38,689	103-123		
74.4	**3.21**	**3833**	19.6	3,692	53,224	105-125		
73.9	**4**	**3933**	19.7	3,717	99,003	107-127		
81.8	**1.01**	**3633**	17.9	3,360	27,235	101-121		
83.1	**1.49**	**3733**	17.6	3,305	39,644	103-123		
82.0	**3.33**	**3833**	17.8	3,349	53,545	105-125		
91.3	**1.05**	**3633**	16	3,011	28,165	101-121		
94.2	**1.55**	**3733**	15.5	2,916	40,487	103-123		
94.0	**3.78**	**3833**	15.5	2,923	53,943	105-125		

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
30 kW - 50 Hz				**LSES 200 LU IFT/IE3 LS 200 LT FCPL 54H1D + CDF7**			**52.2 kW - 87 Hz**	
100	**1.11**	**3633**	14.6	2,746	28,869	101-121		
106	**1.56**	**3733**	13.7	2,582	41,213	103-123		
105	**4**	**3833**	13.9	2,613	54,232	105-125		
115	**1.21**	**3633**	12.7	2,399	29,794	101-121		
119	**1.79**	**3733**	12.3	2,308	41,806	103-123		
118	**4**	**3833**	12.4	2,327	54,498	105-125		
134	**1.32**	**3633**	10.9	2,057	30,707	101-121		
127	**1.86**	**3733**	11.5	2,166	42,113	103-123		
131	**2.84**	**3833**	11.2	2,103	54,705	105-125		
143	**0.92**	**3633**	10.2	1,918	31,078	101-121		
144	**2.00**	**3733**	10.1	1,910	42,665	103-123		
148	**3.21**	**3833**	9.86	1,855	54,936	105-125		
161	**1.01**	**3633**	9.1	1,712	31,626	101-121		
163	**1.49**	**3733**	8.95	1,684	43,152	103-123		
163	**3.34**	**3833**	8.94	1,683	55,095	105-125		
179	**1.05**	**3633**	8.15	1,534	32,102	101-121		
185	**1.55**	**3733**	7.9	1,486	43,579	103-123		
187	**3.78**	**3833**	7.8	1,469	55,293	105-125		
196	**1.24**	**3633**	7.43	1,399	32,461	101-121		
209	**1.56**	**3733**	6.99	1,316	43,947	103-123		
209	**4**	**3833**	6.98	1,313	55,435	105-125		
225	**1.21**	**3633**	6.5	1,223	32,934	101-121		
234	**1.67**	**3733**	6.25	1,176	44,248	103-123		
235	**4**	**3833**	6.21	1,169	53,758	105-125		
262	**1.32**	**3633**	5.57	1,048	33,400	101-121		
249	**1.73**	**3733**	5.86	1,104	44,404	103-123		
292	**1.41**	**3633**	5	941	33,687	101-121		
282	**1.87**	**3733**	5.17	973	44,684	103-123		

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
37 kW - 50 Hz		LSES 225 SR IFT/IE3 LS 225 ST FCPL 54H1D + CDF7					**64.4 kW - 87 Hz**	
16.8	**1.25**	**3933**	87.6	20,226	63,242	107-127		
18.8	**1.38**	**3933**	78.3	18,079	69,013	107-127		
20.3	**0.87**	**3833**	72.2	16,660	40,567	105-125		
21.1	**1.52**	**3933**	69.7	16,105	73,500	107-127		
22.8	**0.94**	**3833**	64.3	14,855	42,389	105-125		
23.7	**1.66**	**3933**	62.1	14,331	77,765	107-127		
25.8	**1.03**	**3833**	57	13,164	44,078	105-125		
26.7	**1.81**	**3933**	55	12,690	81,216	107-127		
29.3	**1.13**	**3833**	50.1	11,578	45,647	105-125		
30.0	**1.96**	**3933**	48.9	11,297	84,024	107-127		
33.3	**1.23**	**3833**	44.2	10,195	46,900	105-125		
33.0	**2.10**	**3933**	44.6	10,289	86,012	107-127		
38.6	**0.83**	**3733**	38.1	8,792	27,613	103-123		
37.7	**1.34**	**3833**	38.9	8,992	48,173	105-125		
37.4	**2.12**	**3933**	39.2	9,053	88,416	107-127		
42.6	**0.88**	**3733**	34.4	7,950	29,475	103-123		
40.4	**1.61**	**3833**	36.4	8,393	48,752	105-125		
42.3	**2.31**	**3933**	34.7	8,016	90,425	107-127		
48.3	**0.95**	**3733**	30.4	7,014	31,537	103-123		
45.3	**1.81**	**3833**	32.4	7,484	49,628	105-125		
47.5	**2.51**	**3933**	30.9	7,137	92,135	107-127		
54.6	**1.03**	**3733**	26.9	6,209	33,306	103-123		
51.1	**1.88**	**3833**	28.7	6,632	50,443	105-125		
52.2	**2.68**	**3933**	28.1	6,500	93,381	107-127		
61.1	**1.23**	**3733**	24	5,550	34,751	103-123		
59.8	**1.85**	**3833**	24.5	5,667	51,361	105-125		
58.1	**2.19**	**3833**	25.3	5,833	51,204	105-125		
59.0	**2.92**	**3933**	24.9	5,749	94,865	107-127		
68.5	**0.84**	**3633**	21.4	4,947	23,021	101-121		
65.1	**1.23**	**3733**	22.6	5,209	35,498	103-123		
66.0	**2.31**	**3833**	22.2	5,136	51,865	105-125		
65.3	**3.13**	**3933**	22.5	5,189	95,984	107-127		
76.3	**0.84**	**3633**	19.2	4,440	24,365	101-121		
73.8	**1.24**	**3733**	19.9	4,594	36,840	103-123		
74.8	**2.61**	**3833**	19.6	4,530	52,437	105-125		
74.4	**3.43**	**3933**	19.7	4,559	97,261	107-127		
82.2	**0.82**	**3633**	17.9	4,122	25,209	101-121		
83.6	**1.22**	**3733**	17.6	4,055	38,014	103-123		
82.5	**2.71**	**3833**	17.8	4,109	52,833	105-125		
80.2	**3.62**	**3933**	18.3	4,225	97,947	107-127		
91.8	**0.85**	**3633**	16	3,694	26,348	101-121		
94.7	**1.26**	**3733**	15.5	3,578	39,052	103-123		
94.5	**3.08**	**3833**	15.5	3,586	53,323	105-125		
93.7	**4**	**3933**	15.7	3,618	96,890	107-127		
101	**0.90**	**3633**	14.6	3,369	27,211	101-121		
107	**1.27**	**3733**	13.7	3,167	39,944	103-123		
106	**3.33**	**3833**	13.9	3,206	53,679	105-125		
103	**4**	**3933**	14.3	3,298	94,710	107-127		

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI ⟷ page	N_S (min^{-1})	Kp
37 kW - 50 Hz				**LSES 225 SR IFT/IE3 LS 225 ST FCPL 54H1D + CDF7**			**64.4 kW - 87 Hz**	
115	**0.98**	**3633**	12.7	2,943	28,344	101-121		
120	**1.45**	**3733**	12.3	2,831	40,673	103-123		
119	**3.61**	**3833**	12.4	2,855	54,007	105-125		
114	**5**	**3933**	12.9	2,983	92,356	107-127		
134	**1.07**	**3633**	10.9	2,523	29,463	101-121		
128	**1.51**	**3733**	11.5	2,657	41,050	103-123		
132	**3.75**	**3833**	11.1	2,568	54,274	105-125		
150	**1.14**	**3633**	9.81	2,265	30,152	101-121		
145	**1.62**	**3733**	10.1	2,343	41,728	103-123		
151	**4**	**3833**	9.75	2,250	54,569	105-125		
161	**0.83**	**3633**	9.1	2,101	30,590	101-121		
164	**1.21**	**3733**	8.95	2,066	42,327	103-123		
164	**2.71**	**3833**	8.94	2,064	54,742	105-125		
180	**0.86**	**3633**	8.15	1,882	31,173	101-121		
186	**1.26**	**3733**	7.9	1,823	42,852	103-123		
188	**3.08**	**3833**	7.8	1,802	54,985	105-125		
197	**1.01**	**3633**	7.43	1,717	31,614	101-121		
210	**1.27**	**3733**	6.99	1,614	43,304	103-123		
210	**3.33**	**3833**	6.98	1,611	54,687	105-125		
226	**0.98**	**3633**	6.5	1,500	32,193	101-121		
235	**1.36**	**3733**	6.25	1,443	43,673	103-123		
236	**3.61**	**3833**	6.21	1,434	53,085	105-125		
264	**1.08**	**3633**	5.57	1,286	32,765	101-121		
250	**1.41**	**3733**	5.86	1,354	43,865	103-123		
263	**3.76**	**3833**	5.59	1,290	51,640	105-125		
294	**1.15**	**3633**	5	1,154	33,117	101-121		
284	**1.52**	**3733**	5.17	1,194	44,209	103-123		
300	**4**	**3833**	4.9	1,131	49,874	105-125		

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI* ⟷ page	N_S (min^{-1})	Kp
45 kW - 50 Hz				**LSES 225 MG IFT/IE3 LS 225 MR FCPL 54H1D + CDF7**			**78.3 kW - 87 Hz**	
16.8	**1.03**	**3933**	87.6	24,602	49,116	107-127		
18.8	**1.13**	**3933**	78.3	21,991	57,967	107-127		
21.1	**1.25**	**3933**	69.7	19,589	65,024	107-127		
23.7	**1.36**	**3933**	62.1	17,432	70,633	107-127		
25.8	**0.85**	**3833**	57	16,013	41,223	105-125		
26.7	**1.49**	**3933**	55	15,435	75,331	107-127		
29.3	**0.93**	**3833**	50.1	14,084	43,000	105-125		
30.0	**1.61**	**3933**	48.9	13,742	79,026	107-127		
33.3	**1.01**	**3833**	44.2	12,401	44,836	105-125		
33.0	**1.72**	**3933**	44.6	12,515	81,573	107-127		
37.7	**1.10**	**3833**	38.9	10,937	46,277	105-125		
37.4	**1.75**	**3933**	39.2	11,012	84,590	107-127		
40.4	**1.32**	**3833**	36.4	10,209	46,989	105-125		
42.3	**1.90**	**3933**	34.7	9,751	87,062	107-127		
48.3	**0.78**	**3733**	30.4	8,532	28,189	103-123		
45.3	**1.49**	**3833**	32.4	9,103	48,065	105-125		
47.5	**2.06**	**3933**	30.9	8,681	89,138	107-127		
54.6	**0.85**	**3733**	26.9	7,553	30,352	103-123		
51.1	**1.55**	**3833**	28.7	8,067	49,067	105-125		
52.2	**2.20**	**3933**	28.1	7,906	90,639	107-127		
61.1	**1.01**	**3733**	24	6,751	32,117	103-123		
58.1	**1.80**	**3833**	25.3	7,095	50,000	105-125		
59.0	**2.40**	**3933**	24.9	6,993	92,416	107-127		
65.1	**1.01**	**3733**	22.6	6,335	33,030	103-123		
66.0	**1.90**	**3833**	22.2	6,247	50,810	105-125		
65.3	**2.58**	**3933**	22.5	6,312	93,750	107-127		
73.8	**1.02**	**3733**	19.9	5,588	34,668	103-123		
74.8	**2.15**	**3833**	19.6	5,510	51,510	105-125		
74.4	**2.82**	**3933**	19.7	5,546	95,270	107-127		
83.6	**1.00**	**3733**	17.6	4,933	36,101	103-123		
82.5	**2.23**	**3833**	17.8	4,998	51,995	105-125		
80.2	**2.97**	**3933**	18.3	5,139	96,086	107-127		
94.7	**1.04**	**3733**	15.5	4,352	37,368	103-123		
94.5	**2.53**	**3833**	15.5	4,362	52,595	105-125		
93.7	**3.31**	**3933**	15.7	4,400	95,250	107-127		
107	**1.04**	**3733**	13.7	3,852	38,455	103-123		
106	**2.74**	**3833**	13.9	3,899	53,030	105-125		
103	**3.54**	**3933**	14.3	4,012	93,210	107-127		
115	**0.81**	**3633**	12.7	3,580	26,650	101-121		
120	**1.20**	**3733**	12.3	3,443	39,344	103-123		
119	**2.97**	**3833**	12.4	3,473	53,430	105-125		
114	**3.79**	**3933**	12.9	3,629	91,000	107-127		
134	**0.88**	**3633**	10.9	3,069	28,010	101-121		
128	**1.24**	**3733**	11.5	3,232	39,804	103-123		
132	**3.09**	**3833**	11.1	3,124	53,756	105-125		
150	**0.94**	**3633**	9.81	2,755	28,846	101-121		
145	**1.33**	**3733**	10.1	2,850	40,631	103-123		
151	**3.50**	**3833**	9.75	2,737	54,116	105-125		

**pages for Ot output shaft L - Ot hollow shaft H.*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI* ⟷ page	N_S (min^{-1})	Kp
45 kW - 50 Hz				**LSES 225 MG IFT/IE3 LS 225 MR FCPL 54H1D + CDF7**			**78.3 kW - 87 Hz**	
164	**1.00**	**3733**	8.95	2,514	41,360	103-123		
164	**2.23**	**3833**	8.94	2,511	54,327	105-125		
186	**1.04**	**3733**	7.9	2,218	42,000	103-123		
188	**2.53**	**3833**	7.8	2,192	54,623	105-125		
197	**0.83**	**3633**	7.43	2,088	30,623	101-121		
210	**1.04**	**3733**	6.99	1,963	42,550	103-123		
210	**2.74**	**3833**	6.98	1,959	53,925	105-125		
226	**0.81**	**3633**	6.5	1,824	31,327	101-121		
235	**1.12**	**3733**	6.25	1,755	43,000	103-123		
236	**2.97**	**3833**	6.21	1,745	52,404	105-125		
264	**0.89**	**3633**	5.57	1,564	32,022	101-121		
250	**1.16**	**3733**	5.86	1,647	43,233	103-123		
263	**3.09**	**3833**	5.59	1,569	51,030	105-125		
294	**0.94**	**3633**	5	1,404	32,450	101-121		
284	**1.25**	**3733**	5.17	1,452	43,652	103-123		
300	**3.50**	**3833**	4.9	1,375	49,340	105-125		

**pages for Ot output shaft L - Ot hollow shaft H.*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI-MU* ⟷ page	N_S (min^{-1})	Kp
55 kW - 50 Hz		**LSES 250 ME IFT/IE3 MU / LS 250 ME FCPL 60H2D**					**95.7 kW - 87 Hz**	
16.9	**0.85**	**3933**	87.6	29,868	25,000	107-127-130		
18.9	**0.93**	**3933**	78.3	26,698	40,968	107-127-130		
21.2	**1.03**	**3933**	69.7	23,782	52,041	107-127-130		
23.8	**1.12**	**3933**	62.1	21,163	60,505	107-127-130		
26.9	**1.22**	**3933**	55	18,739	67,307	107-127-130		
30.2	**1.33**	**3933**	48.9	16,683	72,444	107-127-130		
33.5	**0.83**	**3833**	44.2	15,055	42,188	105-125-130		
33.2	**1.42**	**3933**	44.6	15,194	75,872	107-127-130		
38.0	**0.91**	**3833**	38.9	13,279	43,964	105-125-130		
37.7	**1.43**	**3933**	39.2	13,369	79,809	107-127-130		
40.7	**1.09**	**3833**	36.4	12,395	44,841	105-125-130		
42.6	**1.56**	**3933**	34.7	11,838	82,944	107-127-130		
45.6	**1.22**	**3833**	32.4	11,052	46,164	105-125-130		
47.8	**1.69**	**3933**	30.9	10,539	85,522	107-127-130		
51.5	**1.27**	**3833**	28.7	9,794	47,394	105-125-130		
52.5	**1.81**	**3933**	28.1	9,598	87,358	107-127-130		
61.5	**0.83**	**3733 MU**	24	8,196	28,932	103-123-130		
58.5	**1.48**	**3833**	25.3	8,614	48,539	105-125-130		
59.4	**1.97**	**3933**	24.9	8,490	89,508	107-127-130		
65.5	**0.83**	**3733 MU**	22.6	7,692	30,045	103-123-130		
66.4	**1.56**	**3833**	22.2	7,585	49,531	105-125-130		
65.8	**2.12**	**3933**	22.5	7,663	91,110	107-127-130		
74.3	**0.83**	**3733 MU**	19.9	6,784	32,044	103-123-130		
75.3	**1.76**	**3833**	19.6	6,690	50,388	105-125-130		
74.9	**2.32**	**3933**	19.7	6,733	92,924	107-127-130		
84.2	**0.82**	**3733 MU**	17.6	5,988	33,791	103-123-130		
83.1	**1.83**	**3833**	17.8	6,068	50,981	105-125-130		
80.8	**2.44**	**3933**	18.3	6,239	93,895	107-127-130		
95.4	**0.85**	**3733 MU**	15.5	5,284	35,334	103-123-130		
95.2	**2.08**	**3833**	15.5	5,296	51,713	105-125-130		
94.3	**2.72**	**3933**	15.7	5,342	93,066	107-127-130		
108	**0.86**	**3733 MU**	13.7	4,677	36,659	103-123-130		
106	**2.25**	**3833**	13.9	4,734	52,244	105-125-130		
103	**2.91**	**3933**	14.3	4,871	91,200	107-127-130		
121	**0.98**	**3733 MU**	12.3	4,181	37,741	103-123-130		
120	**2.44**	**3833**	12.4	4,216	52,732	105-125-130		
114	**3.12**	**3933**	12.9	4,406	89,170	107-127-130		
128	**1.02**	**3733 MU**	11.5	3,923	38,301	103-123-130		
133	**2.54**	**3833**	11.1	3,792	53,130	105-125-130		
146	**1.10**	**3733 MU**	10.1	3,460	39,307	103-123-130		
152	**2.88**	**3833**	9.75	3,323	53,569	105-125-130		
165	**0.82**	**3733 MU**	8.95	3,052	40,194	103-123-130		
165	**1.83**	**3833**	8.94	3,049	53,826	105-125-130		
187	**0.85**	**3733 MU**	7.9	2,692	40,973	103-123-130		
189	**2.08**	**3833**	7.8	2,661	54,187	105-125-130		
211	**0.86**	**3733 MU**	6.99	2,383	41,642	103-123-130		
212	**2.25**	**3833**	6.98	2,379	52,887	105-125-130		
237	**0.92**	**3733 MU**	6.25	2,130	42,189	103-123-130		
238	**2.44**	**3833**	6.21	2,118	51,473	105-125-130		
252	**0.95**	**3733 MU**	5.86	1,999	42,472	103-123-130		
264	**2.54**	**3833**	5.59	1,905	50,184	105-125-130		
286	**1.03**	**3733 MU**	5.17	1,763	42,981	103-123-130		
302	**2.88**	**3833**	4.9	1,670	48,588	105-125-130		

**1st pages for Ot output shaft L - Ot hollow shaft H. 3rd page for motor (B35) + MU*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI-MU* ⟷ page	N_S (min^{-1})	Kp
75 kW - 50 Hz		**LSES 280 SD IFT/IE3 MU / LS 280 SC FCPL 60H2D**					**130 kW - 87 Hz**	
23.8	**0.82**	**3933**	62.1	28,862	7,300	107-127-130		
26.9	**0.90**	**3933**	55	25,557	45,530	107-127-130		
30.2	**0.97**	**3933**	48.9	22,752	55,522	107-127-130		
33.2	**1.04**	**3933**	44.6	20,722	61,813	107-127-130		
37.7	**1.05**	**3933**	39.2	18,233	68,622	107-127-130		
40.7	**0.80**	**3833**	36.4	16,904	40,319	105-125-130		
42.6	**1.14**	**3933**	34.7	16,144	73,710	107-127-130		
45.6	**0.90**	**3833**	32.4	15,073	42,171	105-125-130		
47.8	**1.24**	**3933**	30.9	14,373	77,675	107-127-130		
51.5	**0.93**	**3833**	28.7	13,357	43,886	105-125-130		
52.5	**1.33**	**3933**	28.1	13,090	80,390	107-127-130		
58.5	**1.08**	**3833**	25.3	11,748	45,480	105-125-130		
59.4	**1.44**	**3933**	24.9	11,578	83,465	107-127-130		
66.4	**1.14**	**3833**	22.2	10,344	46,857	105-125-130		
65.8	**1.55**	**3933**	22.5	10,451	85,694	107-127-130		
75.3	**1.29**	**3833**	19.6	9,123	48,046	105-125-130		
74.9	**1.70**	**3933**	19.7	9,182	88,166	107-127-130		
83.1	**1.34**	**3833**	17.8	8,275	48,866	105-125-130		
80.8	**1.79**	**3933**	18.3	8,509	89,472	107-127-130		
95.2	**1.52**	**3833**	15.5	7,223	49,878	105-125-130		
94.3	**2.00**	**3933**	15.7	7,286	88,989	107-127-130		
106	**1.65**	**3833**	13.9	6,457	50,610	105-125-130		
103	**2.13**	**3933**	14.3	6,643	87,488	107-127-130		
120	**1.79**	**3833**	12.4	5,750	51,283	105-125-130		
114	**2.29**	**3933**	12.9	6,008	85,810	107-127-130		
133	**1.86**	**3833**	11.1	5,172	51,831	105-125-130		
152	**2.11**	**3833**	9.75	4,532	52,435	105-125-130		
165	**1.34**	**3833**	8.94	4,158	52,787	105-125-130		
189	**1.52**	**3833**	7.8	3,629	52,138	105-125-130		
212	**1.65**	**3833**	6.98	3,244	50,990	105-125-130		
238	**1.79**	**3833**	6.21	2,889	49,785	105-125-130		
264	**1.86**	**3833**	5.59	2,599	48,665	105-125-130		
302	**2.11**	**3833**	4.9	2,277	47,259	105-125-130		

**1st pages for Ot output shaft L - Ot hollow shaft H. 3rd page for motor (B35) + MU*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MI-MU	i	M (Nm)	F_R E/2 (N)	Dim. MI-MU* ⟷ page	N_S (min^{-1})	Kp
90 kW - 50 Hz		**LSES 280 MD IFT/IE3 MU / LS 280 MD FCPL 60H2D + CDF7**					**157 kW - 87 Hz**	
30.2	**0.81**	**3933**	48.9	27,304	9,131	107-127-130		
33.2	**0.87**	**3933**	44.6	24,867	32,330	107-127-130		
37.9	**0.88**	**3933**	39.2	21,791	58,313	107-127-130		
42.8	**0.96**	**3933**	34.7	19,296	65,610	107-127-130		
48.0	**1.04**	**3933**	30.9	17,179	71,083	107-127-130		
52.7	**1.11**	**3933**	28.1	15,645	74,711	107-127-130		
59.6	**1.21**	**3933**	24.9	13,838	78,702	107-127-130		
67.2	**0.83**	**3833**	22.2	12,271	44,964	105-125-130		
66.0	**1.30**	**3933**	22.5	12,491	81,519	107-127-130		
76.7	**0.91**	**3833**	19.6	10,753	46,457	105-125-130		
75.2	**1.42**	**3933**	19.7	10,975	84,575	107-127-130		
83.8	**1.12**	**3833**	17.8	9,891	46,810	105-125-130		
81.1	**1.50**	**3933**	18.3	10,170	86,165	107-127-130		
95.5	**1.27**	**3833**	15.5	8,633	46,646	105-125-130		
94.7	**1.67**	**3933**	15.7	8,708	85,930	107-127-130		
107	**1.38**	**3833**	13.9	7,717	46,249	105-125-130		
104	**1.78**	**3933**	14.3	7,939	84,700	107-127-130		
120	**1.49**	**3833**	12.4	6,873	45,771	105-125-130		
115	**1.91**	**3933**	12.9	7,181	83,289	107-127-130		
133	**1.55**	**3833**	11.1	6,182	45,277	105-125-130		
152	**1.76**	**3833**	9.75	5,417	44,471	105-125-130		
166	**1.12**	**3833**	8.94	4,970	43,880	105-125-130		
190	**1.27**	**3833**	7.8	4,338	42,948	105-125-130		
213	**1.38**	**3833**	6.98	3,877	42,086	105-125-130		
239	**1.49**	**3833**	6.21	3,453	41,200	105-125-130		
266	**1.55**	**3833**	5.59	3,106	40,341	105-125-130		
303	**1.76**	**3833**	4.9	2,722	39,290	105-125-130		

**1st pages for Ot output shaft L - Ot hollow shaft H. 3rd page for motor (B35) + MU*

Selection tables

Orthobloc: Ot / LS, LSES motors / 4 poles

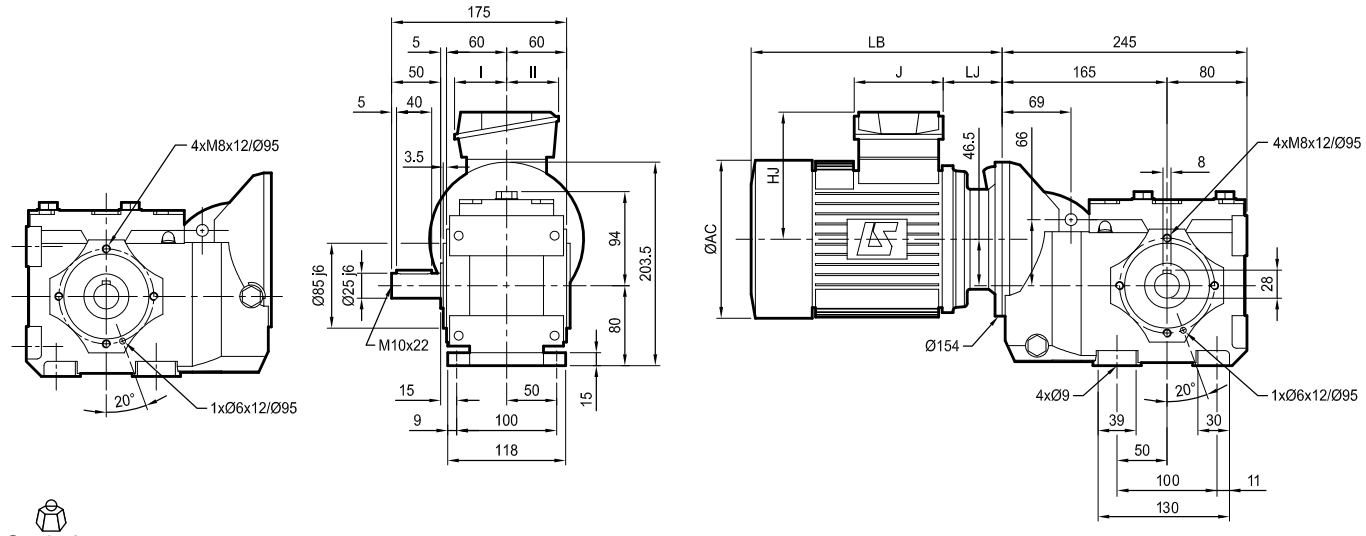
LS, LSES 1500 min^{-1} - 50 Hz		Ot - Gearbox					LS, LSES 2600 min^{-1} - 87 Hz	
N_S (min^{-1})	Kp	Ot / MU	i	M (Nm)	F_R E/2 (N)	Dim. MU* ⟷ page	N_S (min^{-1})	Kp
110 kW - 50 Hz		LSES 315 SP IFT/IE3 LS 315 SN FCPL 60H2D + CDF7					**191 kW - 87 Hz**	
42.9	**0.78**	**3933**	34.7	23,522	42,245	107-127-130		
48.1	**0.85**	**3933**	30.9	20,941	47,141	107-127-130		
52.9	**0.91**	**3933**	28.1	19,072	58,914	107-127-130		
59.8	**0.99**	**3933**	24.9	16,869	64,609	107-127-130		
66.2	**1.06**	**3933**	22.5	15,227	68,527	107-127-130		
75.4	**1.16**	**3933**	19.7	13,378	79,791	107-127-130		
81.3	**1.23**	**3933**	18.3	12,397	81,814	107-127-130		
95.0	**1.37**	**3933**	15.7	10,615	85,372	107-127-130		
104	**1.46**	**3933**	14.3	9,678	87,203	107-127-130		
115	**1.56**	**3933**	12.9	8,754	88,996	107-127-130		

**1st pages for Ot output shaft L - Ot hollow shaft H. 3rd page for motor (B35) + MU*

Dimensions
Ot 3132 - Integral mounting MI

Dimensions in millimetres

- Tapped form SBT LR, output shaft on the left L*



Ot: 14 kg
+ mot

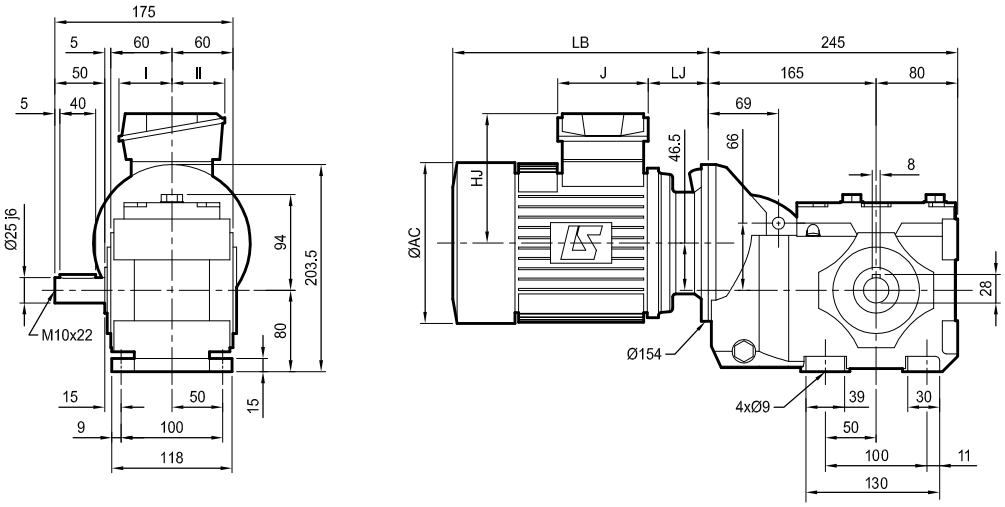
* *shaft on the right option R*

Dimensions
Ot 3132 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

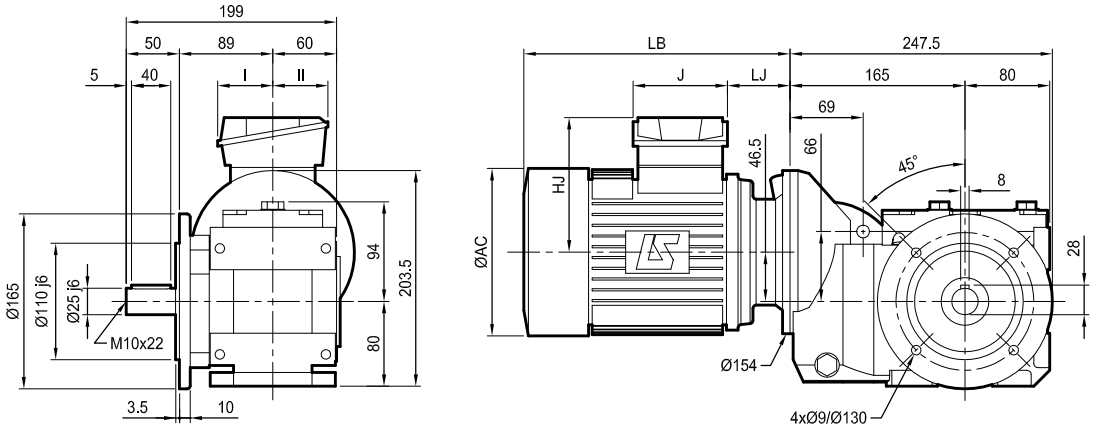
Ot: 14.5 kg
+ mot



* *shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 14.8 kg
+ mot



* *option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	199.5	37	43.5	43.5	7.3
LSES 71 L	140	109	87	207.5	37	43.5	43.5	8.3
LSES 80 LG	190	135	87	288	67.5	43.5	43.5	14.1
LSES 90 SL	190	135	87	290	71	43.5	43.5	16.2
LSES 90 LU	190	135	87	321.5	71	43.5	43.5	20.4
LSES 100 L	200	140	87	335.5	72	43.5	43.5	23
LSES 100 LR	200	140	87	354.5	72	43.5	43.5	25.8
LSES 100 LG	235	149	87	350.5	71	43.5	43.5	31

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*300*	*25.5*	*55*	*55*	*11.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*306*	*25.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*347*	*49.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	430	55.5	55	55	18
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	435	59	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	435	59	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*483*	*60*	*55*	*55*	*29.6*
LSES 100 L	**FFB 2**	200	156	160	483	60	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	483	60	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	459	59	55	55	37.6

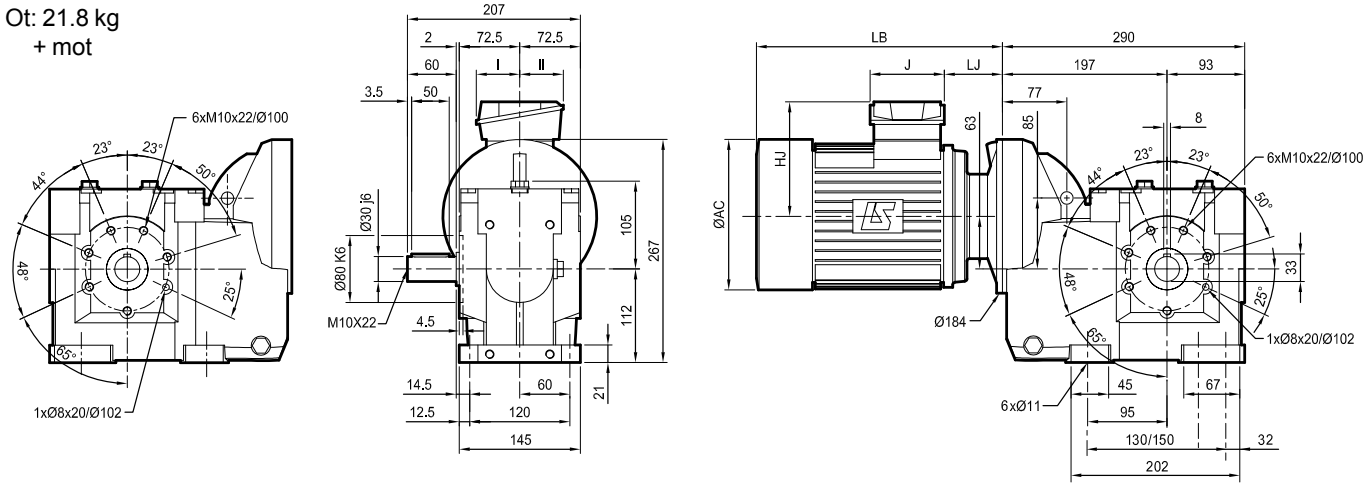
1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3232 - Integral mounting MI

Dimensions in millimetres

- Tapped form SBT LR, output shaft on the left L*

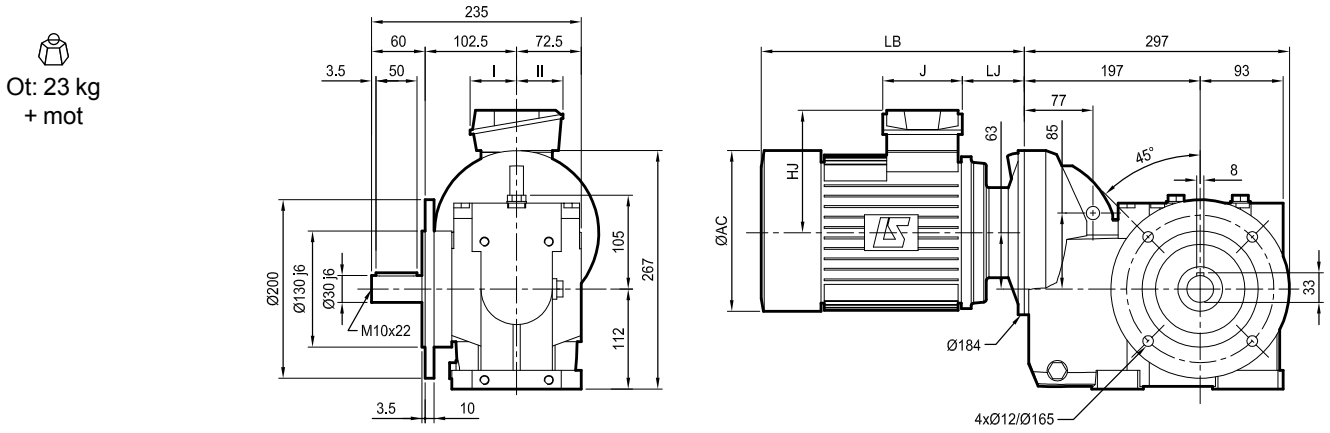
Ot: 21.8 kg
+ mot



* *shaft on the right option R*

- Flange form BD L*, output shaft on left L*

Ot: 23 kg
+ mot



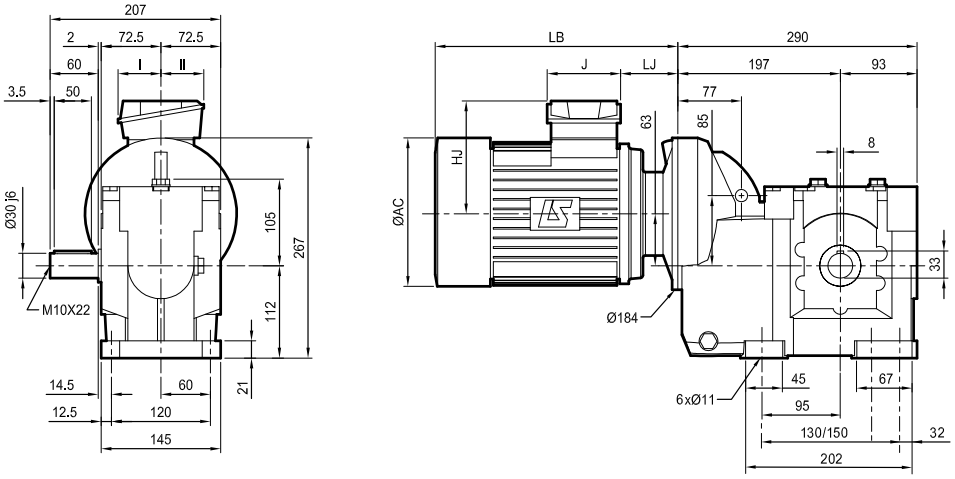
* *option on right BDR R: identical flange and shaft*

Dimensions
Ot 3232 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

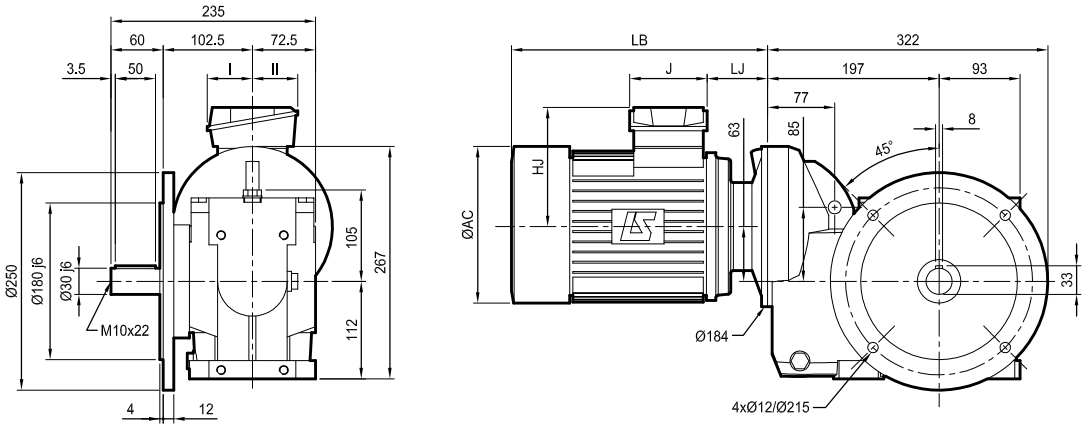
Ot: 22 kg
+ mot



** shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 23.3 kg
+ mot



** option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	199.5	37	43.5	43.5	7.3
LSES 71 L	140	109	87	207.5	37	43.5	43.5	8.3
LSES 80 LG	190	135	87	288	67.5	43.5	43.5	14.1
LSES 90 SL	190	135	87	290	71	43.5	43.5	16.2
LSES 90 LU	190	135	87	321.5	71	43.5	43.5	20.4
LSES 100 L	200	140	87	335.5	72	43.5	43.5	22.6
LSES 100 LR	200	140	87	354.5	72	43.5	43.5	25.8
LSES 100 LG	235	149	87	350.5	71	43.5	43.5	31
LSES 112 MU	235	149	87	368.5	71	43	43	37
LSES 132 SM	272	190	126	437	69	63	63	52

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*10.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*347*	*49.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	430	55.5	55	55	17.1
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	435	59	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	435	59	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*483*	*60*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	483	60	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	483	60	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	459	59	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*486*	*61.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	484	59	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*509*	*60.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	648	77.5	55	55	66.5

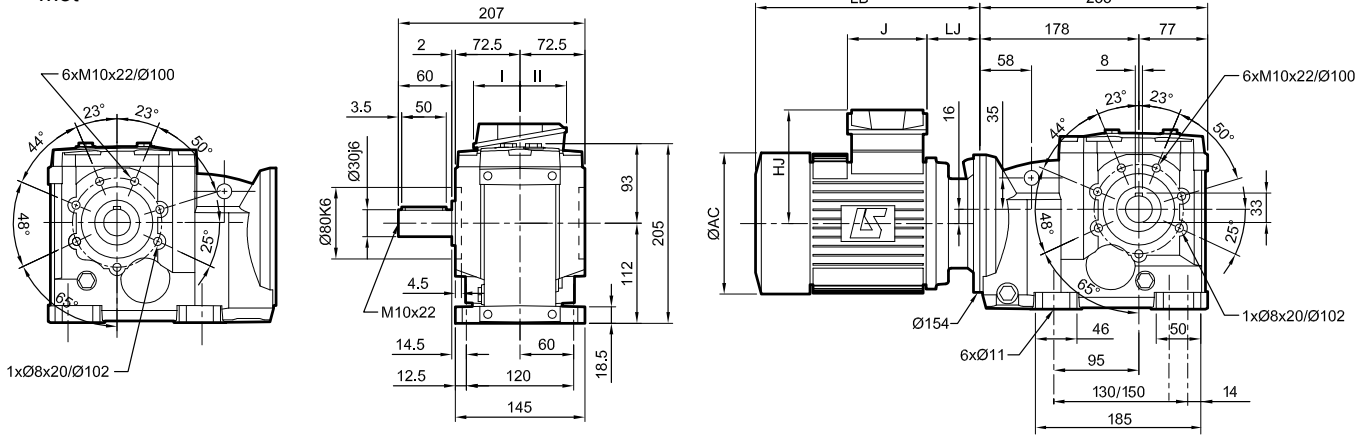
1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3233 - Integral mounting MI

Dimensions in millimetres

- Tapped form SBT LR, output shaft on the left L*

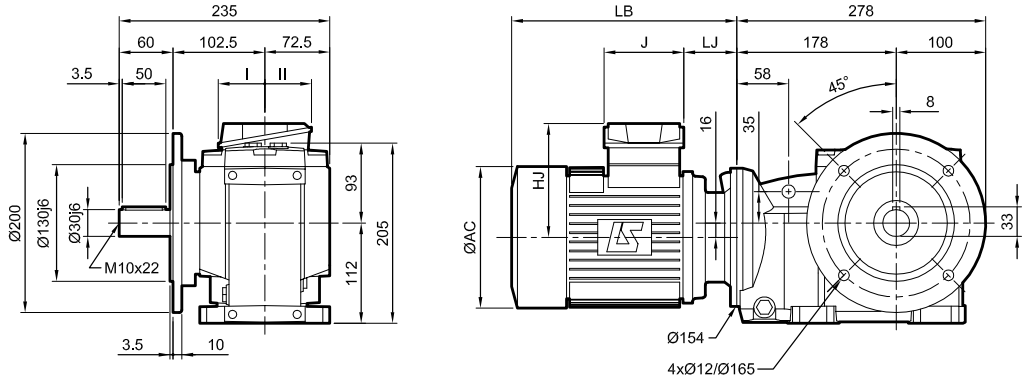
Ot: 21 kg
+ mot



** shaft on the right option R*

- Flange form BD L*, output shaft on left L*

Ot: 21.7 kg
+ mot



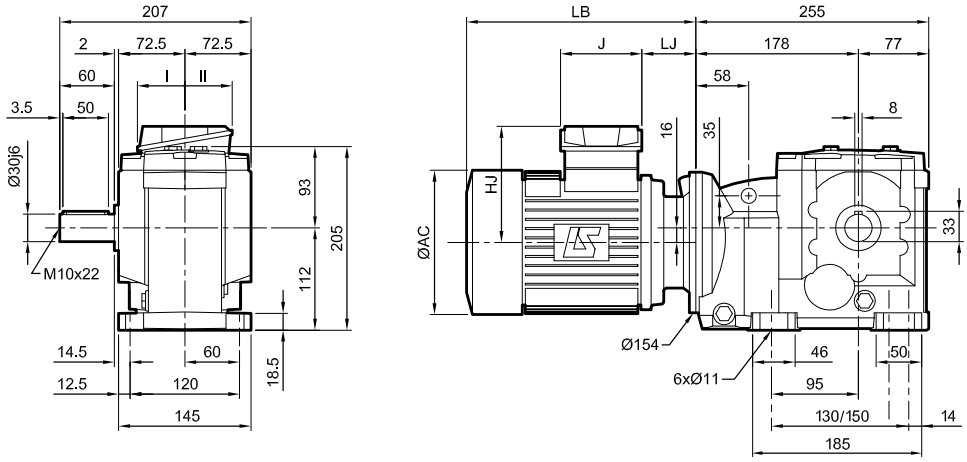
** option on right BDR R: identical flange and shaft*

Dimensions
Ot 3233 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

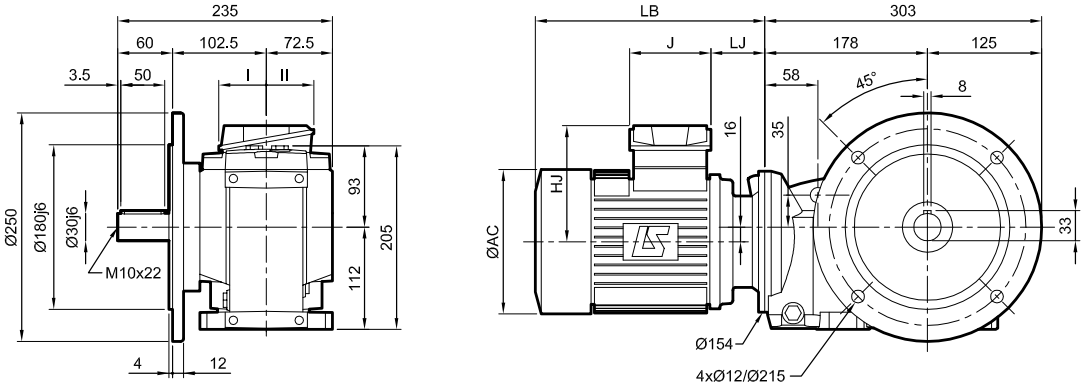
Ot: 20.5 kg
+ mot



* *shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 22 kg
+ mot



* *option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	199.5	37	43.5	43.5	7.3
LSES 71 L	140	109	87	207.5	37	43.5	43.5	8.3
LSES 80 LG	190	135	87	288	67.5	43.5	43.5	14.1
LSES 90 SL	190	135	87	290	71	43.5	43.5	16.2
LSES 90 LU	190	135	87	321.5	71	43.5	43.5	20.4
LSES 100 L	200	140	87	335.5	72	43.5	43.5	23
LSES 100 LR	200	140	87	354.5	72	43.5	43.5	25.8
LSES 100 LG	235	149	87	350.5	71	43.5	43.5	31

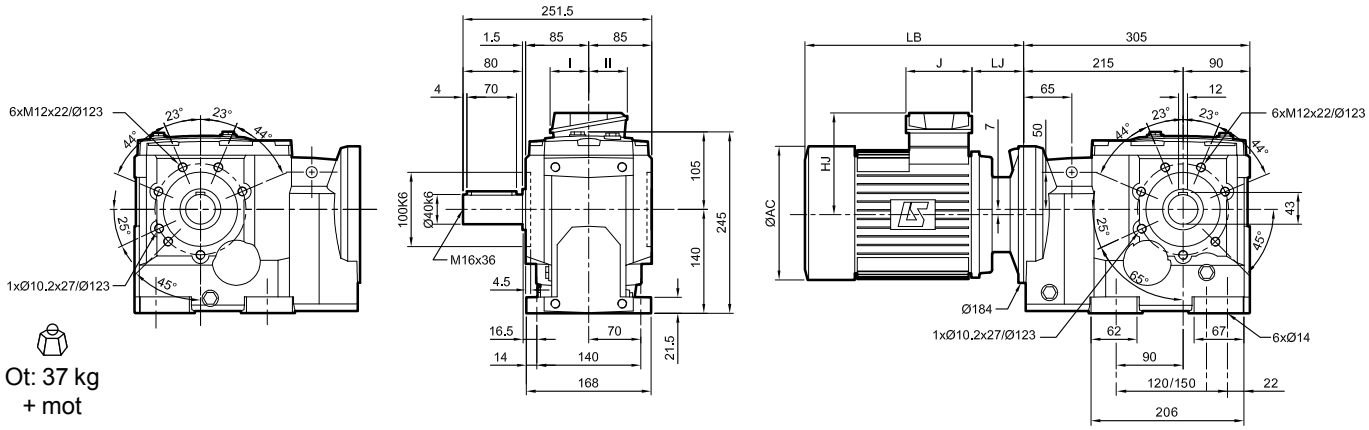
Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*300*	*25.5*	*55*	*55*	*11.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*306*	*25.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*347*	*49.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	430	55.5	55	55	18
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	435	59	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	435	59	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*483*	*60*	*55*	*55*	*29.6*
LSES 100 L	**FFB 2**	200	156	160	483	60	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	483	60	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	459	59	55	55	37.6

1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3333 - Integral mounting MI

Dimensions in millimetres

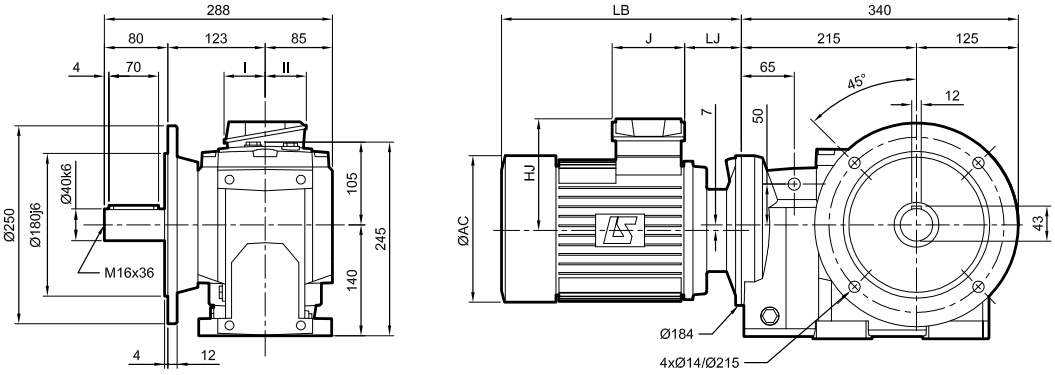
- Tapped form SBT LR, output shaft on the left L*



Ot: 37 kg
+ mot

** shaft on the right option R*

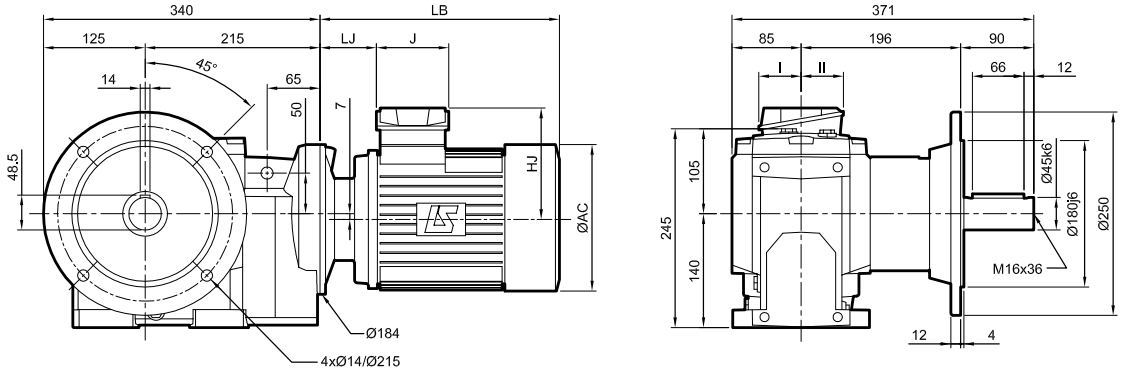
- Flange form BD L*, output shaft on left L*



Ot: 42 kg
+ mot

** option on right BDR R: identical flange and shaft*

- Reinforced flange form BR R, output shaft on the right R* only



Ot: 51 kg
+ mot

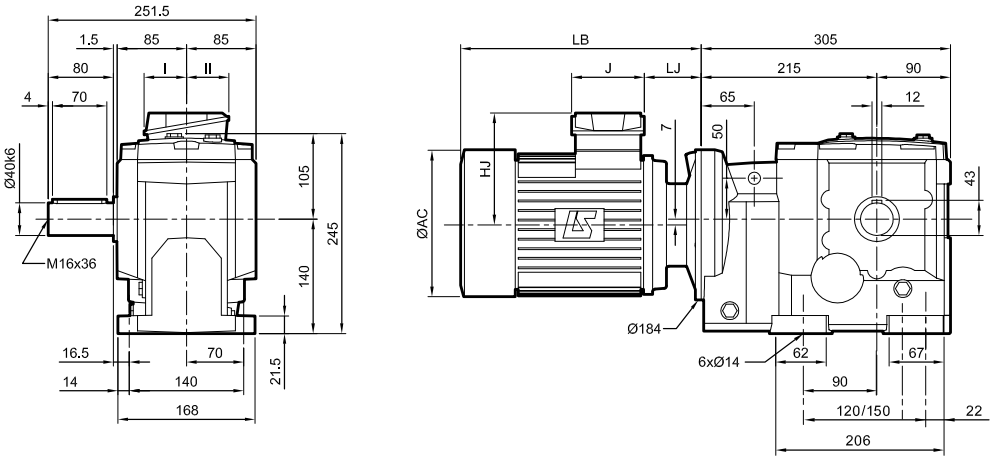
** left option: not possible*

Dimensions
Ot 3333 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

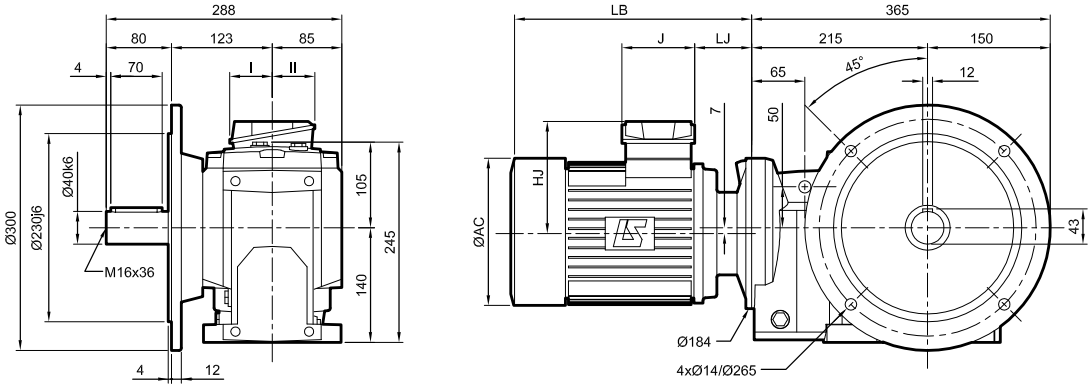
Ot: 38 kg
+ mot



* *shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 42 kg
+ mot



* *option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	199.5	37	43.5	43.5	7.3
LSES 71 L	140	109	87	207.5	37	43.5	43.5	8.3
LSES 80 LG	190	135	87	288	67.5	43.5	43.5	14.1
LSES 90 SL	190	135	87	290	71	43.5	43.5	16.2
LSES 90 LU	190	135	87	321.5	71	43.5	43.5	20.4
LSES 100 L	200	140	87	335.5	72	43.5	43.5	22.6
LSES 100 LR	200	140	87	354.5	72	43.5	43.5	25.8
LSES 100 LG	235	149	87	350.5	71	43.5	43.5	31
LSES 112 MU	235	149	87	368.5	71	43	43	37
LSES 132 SM	272	190	126	437	69	63	63	52

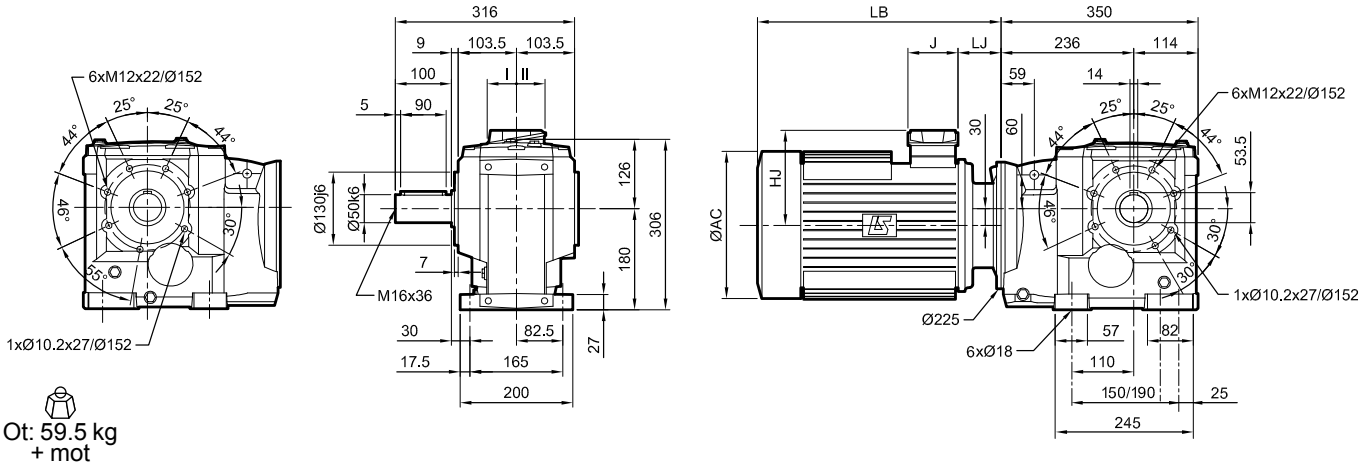
Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*10.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*347*	*49.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	430	55.5	55	55	17.1
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	435	59	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	435	59	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*483*	*60*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	483	60	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	483	60	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	459	59	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*486*	*61.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	484	59	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*509*	*60.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	648	77.5	55	55	66.5

1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3433 - Integral mounting MI

Dimensions in millimetres

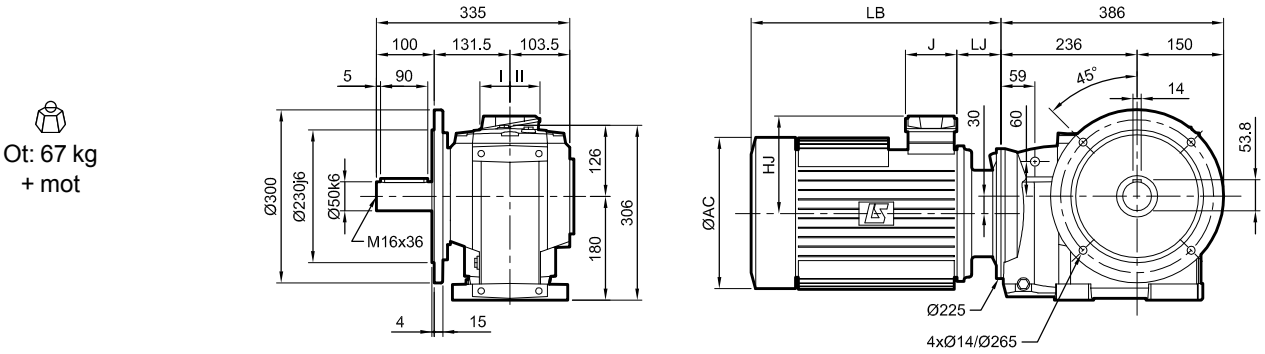
- Tapped form SBT LR, output shaft on the left L*



Ot: 59.5 kg
+ mot

** shaft on the right option R*

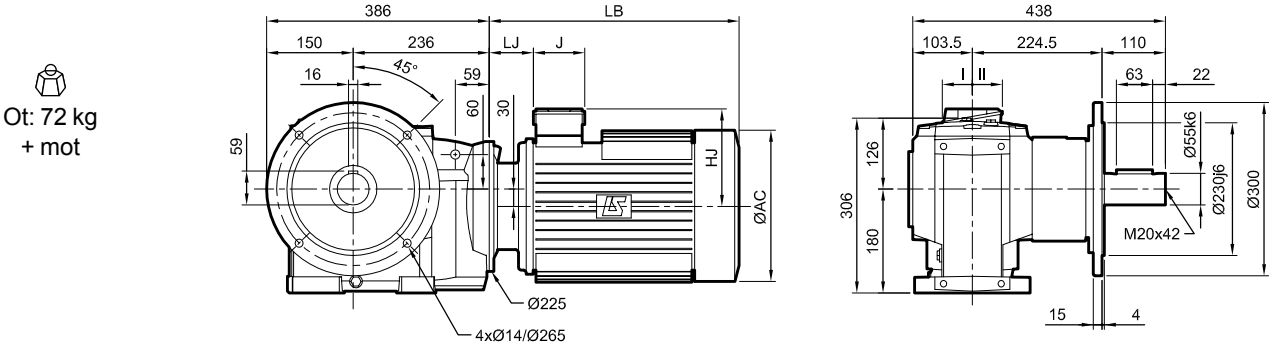
- Flange form BD L*, output shaft on left L*



Ot: 67 kg
+ mot

** option on right BDR R: identical flange and shaft*

- Reinforced flange form BR R, output shaft on the right R* only



Ot: 72 kg
+ mot

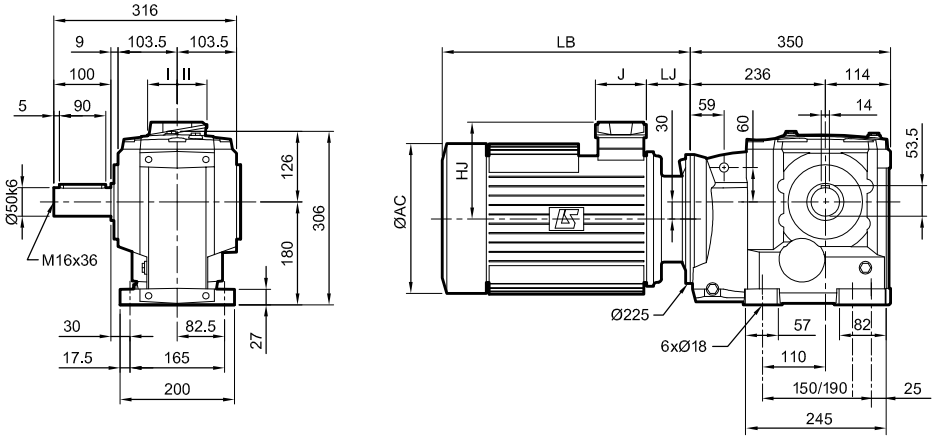
** left option: not possible*

Dimensions
Ot 3433 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

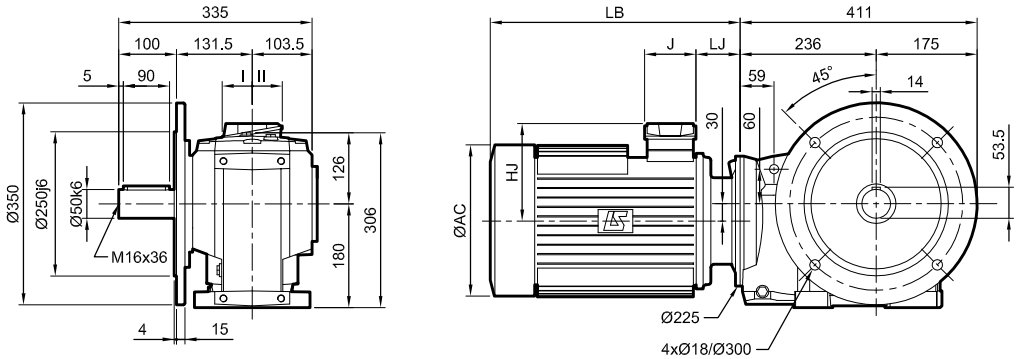
Ot: 60 kg
+ mot



* *shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 68 kg
+ mot



* *option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	195.5	33	43	43	7.3
LSES 71 L	140	109	87	203.5	33	43	43	9
LSES 80 LG	190	135	87	284	63.5	43	43	15
LSES 90 SL	190	135	87	286	67	43	43	16.2
LSES 90 LU	190	135	87	317.5	67	43	43	20.4
LSES 100 L	200	140	87	331.5	68	43	43	23
LSES 100 LR	200	140	87	331.5	68	43	43	25.8
LSES 100 LG	235	149	87	346.5	67	43	43	31
LSES 112 MU	235	149	87	364.5	67	43	43	37
LSES 132 SM	272	190	126	433	65	63	63	52
LSES 132 MU	272	190	126	460	65	63	63	62.6

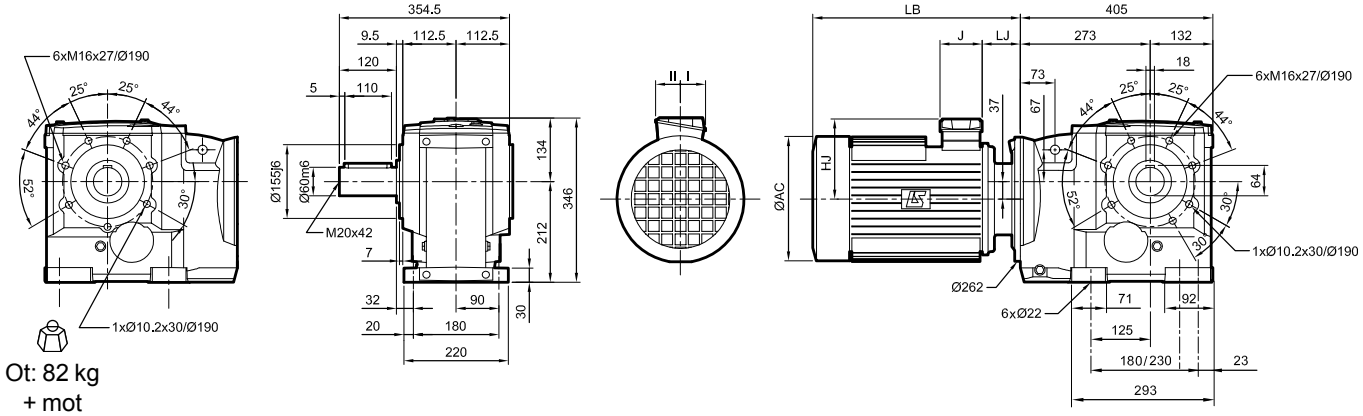
Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*10.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*343*	*45.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	426	51.5	55	55	18
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*431*	*55*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	431	55	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*431*	*55*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	431	55	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*479*	*56*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	479	56	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	479	56	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	455	55	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*448*	*28.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	480	55	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*505*	*56.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	644	73.5	55	55	66.5
LS 132 M	***FFB 4***	*272*	*186*	*160*	*644*	*73.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	272	186	160	644	73.5	55	55	77.1

1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3533 - Integral mounting MI

Dimensions in millimetres

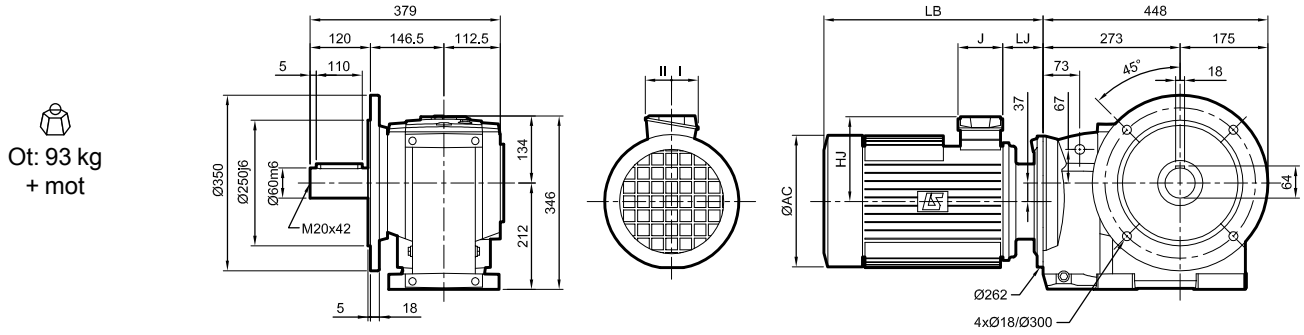
- Tapped form SBT LR, output shaft on the left L*



Ot: 82 kg
+ mot

* *shaft on the right option R*

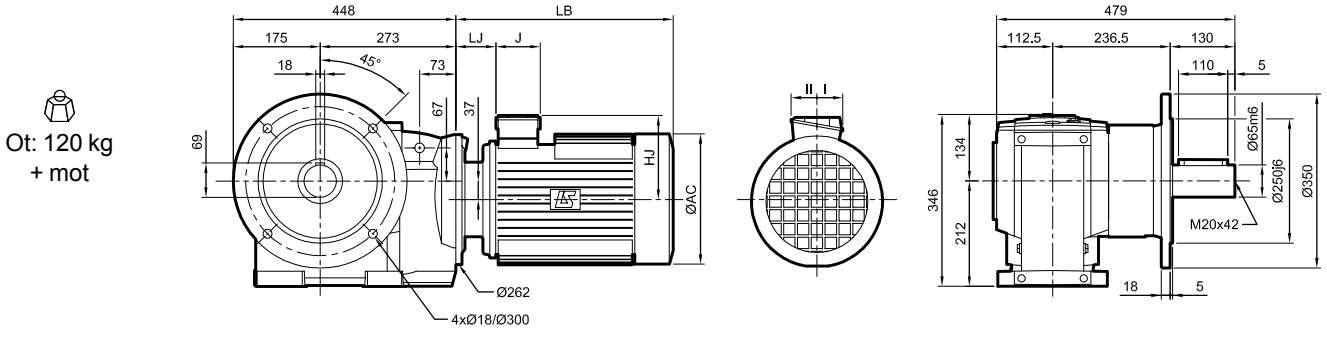
- Flange form BD L*, output shaft on left L*



Ot: 93 kg
+ mot

* *option on right BDR R: identical flange and shaft*

- Reinforced flange form BR R, output shaft on the right R* only



Ot: 120 kg
+ mot

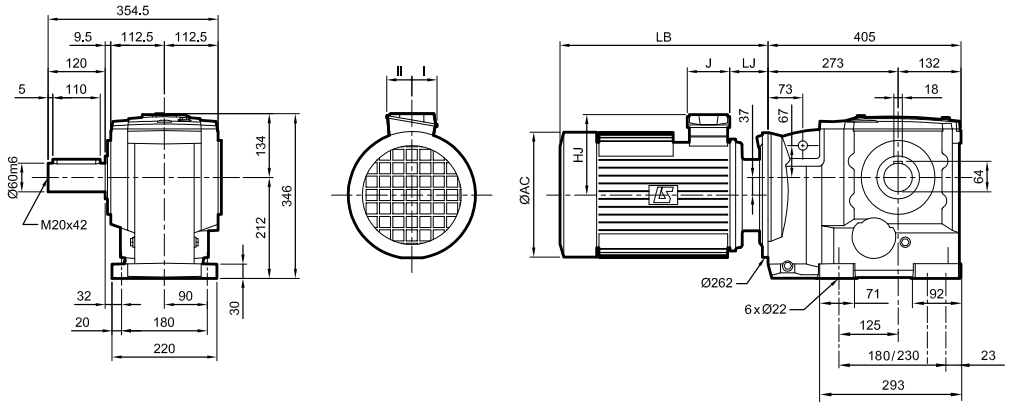
* *left option: not possible*

Dimensions
Ot 3533 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

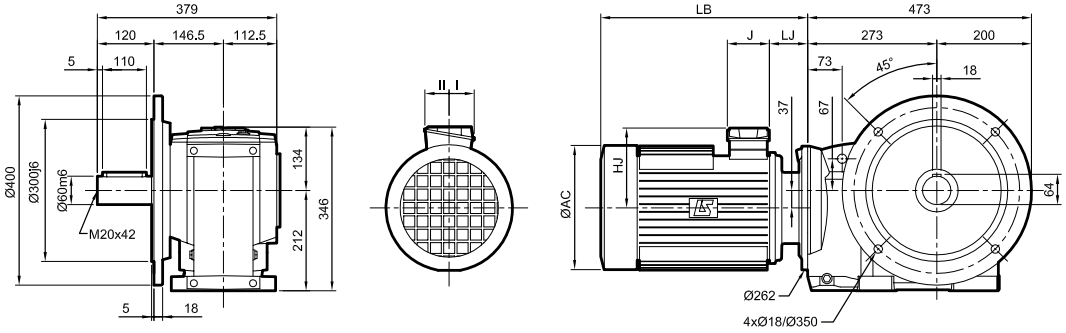
Ot: 83 kg
+ mot



** shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 94 kg
+ mot



** option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							
	AC	HJ	J	LB	LJ	I	II	kg
LSES 80 LG	190	135	87	288.5	68	43	43	15
LSES 90 SL	190	135	87	286	67	43	43	16.2
LSES 90 LU	190	135	87	317.5	67	43	43	20.4
LSES 100 L	200	140	87	331.5	68	43	43	23
LSES 100 LR	200	140	87	350.5	68	43	43	25.8
LSES 100 LG	235	149	87	346.5	67	43	43	31
LSES 112 MU	235	149	87	364.5	67	43	43	37
LSES 132 SM	272	190	126	437	69	63	63	52
LSES 132 MU	272	190	126	464	69	63	63	62.6
LSES 160 MR	272	190	126	506	69.5	63	63	78
LSES 160 M	312	235	135	508	55.8	88	64	93
LSES 160 LUR	312	235	135	523	55.8	88	64	100
LSES 180 M	350	256	186	565	76.5	112	98	130
LSES 180 LUR	350	256	186	627	76.5	112	98	155

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							
		AC	HJ	J	LB	LJ	I	II	kg
LS 80 L	***FFB 1***	*170*	*141*	*160*	*348*	*50*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	431	56	55	55	18
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*431*	*55*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	431	55	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*431*	*55*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	431	55	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*479*	*56*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	479	55	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	479	55	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	455	55	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*482*	*28.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	480	55	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*509*	*60.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	648	77.5	55	55	66.5
LS 132 M	***FFB 4***	*272*	*186*	*160*	*648*	*77.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	272	186	160	648	77.5	55	55	77.1
LSES 160 MR	**FFB 4**	272	186	160	683	77	55	55	92.3
LS 160 MP	***FFB 5***	*272*	*186*	*160*	*682*	*77*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*272*	*186*	*160*	*682*	*77*	*55*	*55*	*96.1*
LSES 160 M	**FFB 5**	312	248	186	695	59	112	98	117
LSES 160 LUR	**FFB 5**	312	248	186	690	59	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*695*	*59*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*696*	*57*	*92*	*63*	*152*

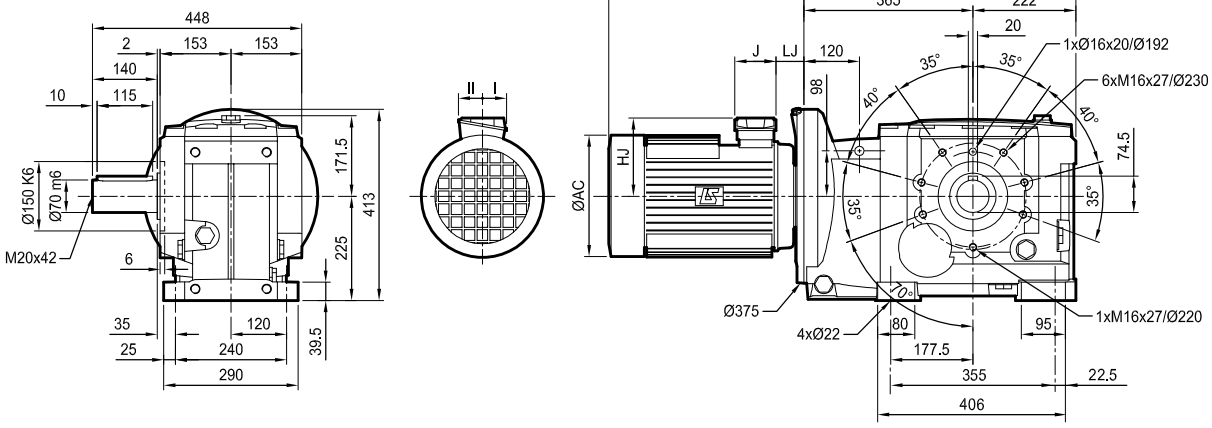
1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3633 - Integral mounting MI

Dimensions in millimetres

- Tapped form SBT LR, output shaft on the left L*

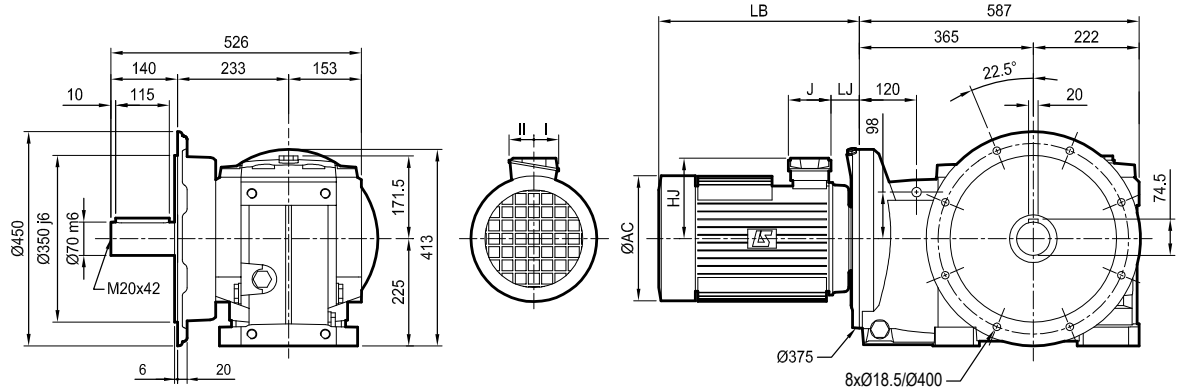
Ot: 196 kg
+ mot



** option on right SBT, LR R: identical flange and shaft*

- Flange form BD L*, output shaft on left L*

Ot: 226 kg
+ mot



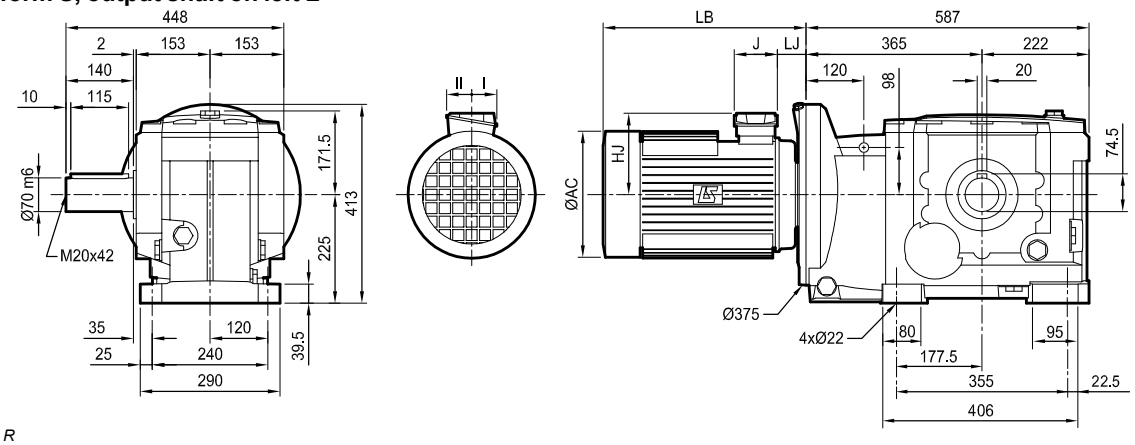
** option on right BDR R: identical flange and shaft*

Dimensions
Ot 3633 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

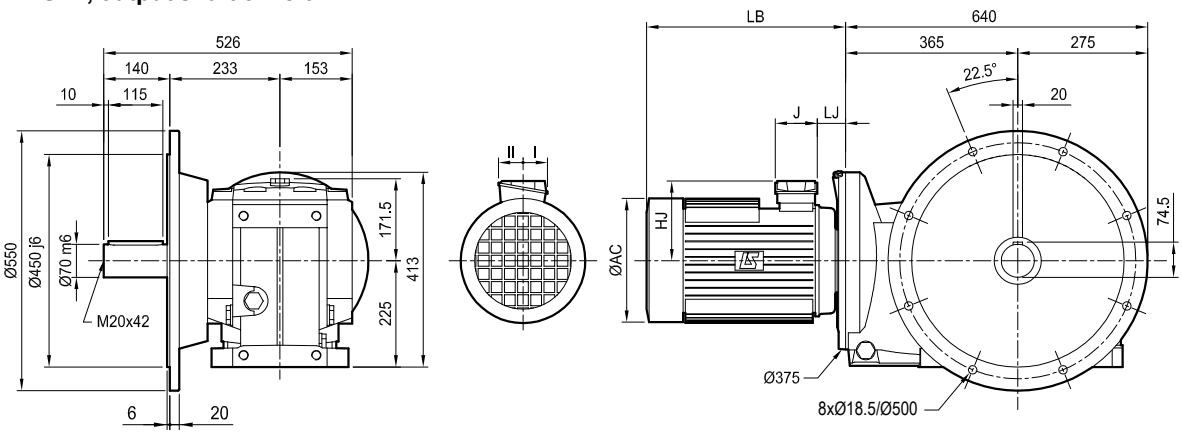
Ot: 198 kg
+ mot



* *shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 232 kg
+ mot



* *option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							
	AC	HJ	J	LB	LJ	I	II	kg
LSES 90 SL	190	135	87	272	53	43	43	16.2
LSES 90 LU	190	135	87	303.5	53	43	43	20.4
LSES 100 L	200	140	87	317.5	54	43	43	22.6
LSES 100 LR	200	140	87	336.5	54	43	43	25.8
LSES 100 LG	235	149	87	332.5	53	43	43	31
LSES 112 MU	235	149	87	350.5	53	43	43	37
LSES 132 SM	272	190	126	419	51	63	63	52
LSES 132 MU	272	190	126	446	51	63	63	62.6
LSES 160 MR	272	190	126	489	52.5	63	63	77.8
LSES 160 M	312	235	135	490	37.8	88	64	93
LSES 160 LUR	312	235	135	505	37.8	88	64	100
LSES 180 M	350	256	186	547	58.8	112	98	130
LSES 180 LUR	350	256	186	609	58.8	112	98	155
LSES 200 LU	390	276	186	674	82	112	98	225
LSES 225 SR	390	310	231	674.5	59.5	119	142	236
LSES 225 MG	479	405	292	825	83.5	151	181	318

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							
		AC	HJ	J	LB	LJ	I	II	kg
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*417*	*41*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	417	41	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*417*	*41*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	417	41	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*465*	*41*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	465	41	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	465	41	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	441	41	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*468*	*43.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	466	41	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*491*	*42.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	630	59.5	55	55	66.5
LS 132 M	***FFB 4***	*272*	*186*	*160*	*630*	*59.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	272	186	160	665	61.5	55	55	77.1
LSES 160 MR	**FFB 4**	272	186	160	664	60.5	55	55	92.3
LS 160 MP	***FFB 5***	*272*	*186*	*160*	*664*	*60.5*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*272*	*186*	*160*	*664*	*60.5*	*55*	*55*	*96*
LSES 160 M	**FFB 5**	312	248	186	677	46.8	112	98	110
LSES 160 LUR	**FFB 5**	312	248	186	672	41	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*677*	*41*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*678*	*39*	*92*	*63*	*152*
LS 200 LT	***FCPL54-H1D[2]***	*350*	*263*	*134*	*774*	*86*	*92*	*63*	*200*
LS 225 ST	***FCPL54-H1D[2]***	*390*	*283*	*134*	*836*	*109.5*	*92*	*63*	*242*
LS 225 MR	***FCPL54-H1D[2]***	*390*	*283*	*134*	*878*	*109.5*	*92*	*63*	*274*

1. except brake motor in italics: not concerned by the IE

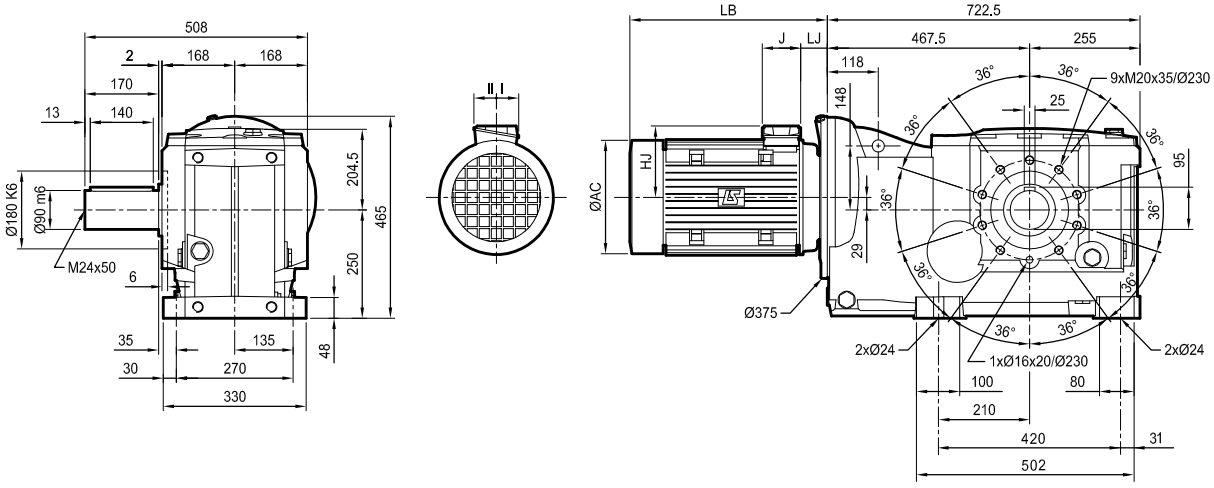
2. with CDF device

Dimensions
Ot 3733 - Integral mounting MI

Dimensions in millimetres

- Tapped form SBT LR, output shaft on the left L*

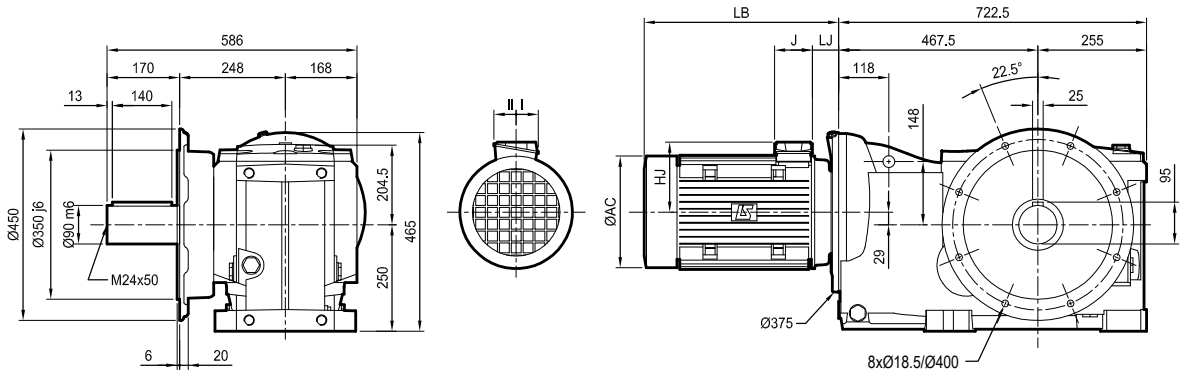
Ot: 303 kg
+ mot



* *option on right SBT, LR R: identical flange and shaft*

- Flange form BD L*, output shaft on left L*

Ot: 336 kg
+ mot



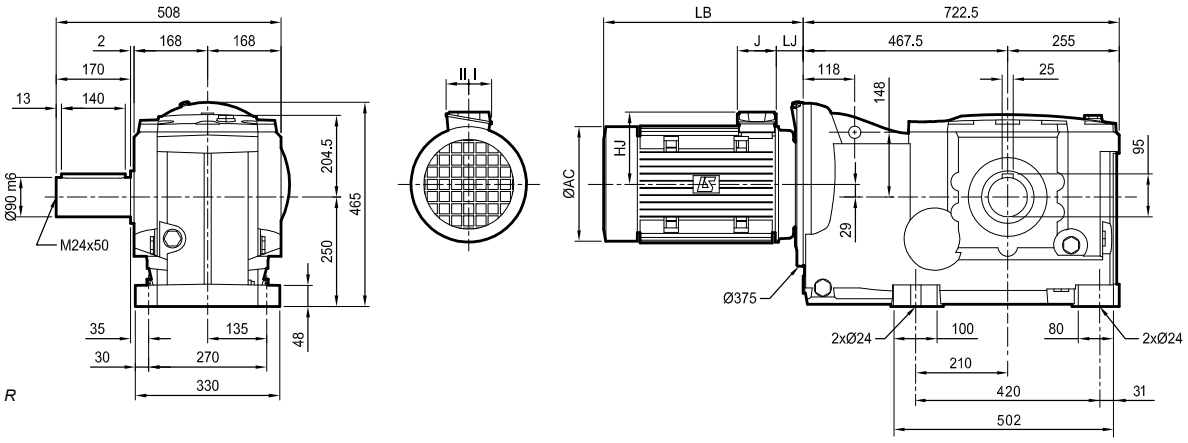
* *option on right BDR R: identical flange and shaft*

Dimensions
Ot 3733 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

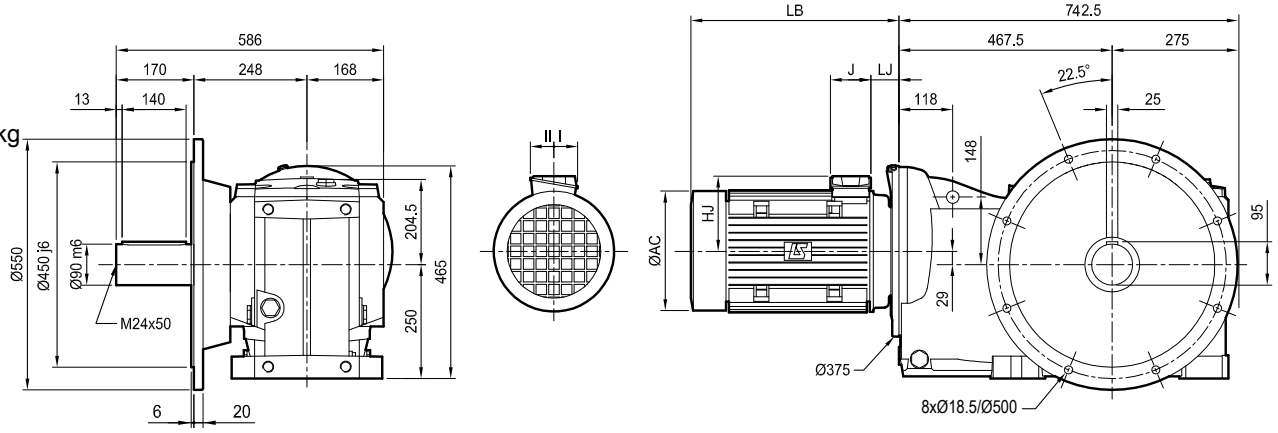
Ot: 306 kg
+ mot



1. through holes
** shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 342 kg
+ mot



** option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							
	AC	HJ	J	LB	LJ	I	II	kg
LSES 90 SL	190	135	87	272	53	43	43	16.2
LSES 90 LU	190	135	87	303.5	53	43	43	20.4
LSES 100 L	200	140	87	317.5	54	43	43	22.6
LSES 100 LR	200	140	87	336.5	54	43	43	25.8
LSES 100 LG	235	149	87	332.5	53	43	43	31
LSES 112 MU	235	149	87	350.5	53	43	43	37
LSES 132 SM	272	190	126	419	51	63	63	52
LSES 132 MU	272	190	126	446	51	63	63	62.6
LSES 160 MR	272	190	126	489	52.5	63	63	77.8
LSES 160 M	312	235	135	490	37.8	88	64	93
LSES 160 LUR	312	235	135	505	37.8	88	64	100
LSES 180 M	350	256	186	547	58.8	112	98	130
LSES 180 LUR	350	256	186	609	58.8	112	98	155
LSES 200 LU	390	276	186	674	82	112	98	225
LSES 225 SR	390	310	231	674	72.5	119	142	236
LSES 225 MG	479	405	292	825	83.5	151	181	318
LSES 250 ME	479	405	292	825	83.5	151	181	350

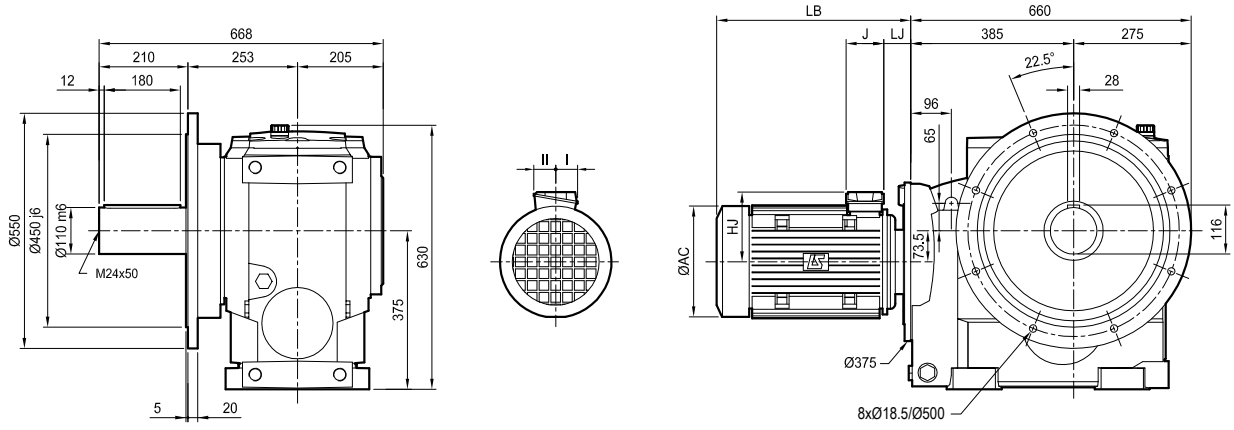
Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							
		AC	HJ	J	LB	LJ	I	II	kg
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*417*	*41*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	417	41	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*417*	*41*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	417	41	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*465*	*41*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	465	41	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	465	41	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	441	41	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*468*	*43.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	466	41	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*491*	*42.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	630	59.5	55	55	66.5
LS 132 M	***FFB 4***	*272*	*186*	*160*	*630*	*59.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	272	186	160	665	61.5	55	55	77.1
LSES 160 MR	**FFB 4**	272	186	160	664	60.5	55	55	92.3
LS 160 MP	***FFB 5***	*272*	*186*	*160*	*664*	*60.5*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*272*	*186*	*160*	*664*	*60.5*	*55*	*55*	*96*
LSES 160 M	**FFB 5**	312	248	186	677	46.8	112	98	110
LSES 160 LUR	**FFB 5**	312	248	186	672	41	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*677*	*41*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*678*	*39*	*92*	*63*	*152*
LS 200 LT	***FCPL54-H1D[2]***	*350*	*263*	*134*	*774*	*86*	*92*	*63*	*200*
LS 225 ST	***FCPL54-H1D[2]***	*390*	*283*	*134*	*836*	*109.5*	*92*	*63*	*242*
LS 225 MR	***FCPL54-H1D[2]***	*390*	*283*	*134*	*878*	*109.5*	*92*	*63*	*274*

1. except brake motor in italics: not concerned by the IE
2. with CDF device

Dimensions
Ot 3833 - Integral mounting MI

Dimensions in millimetres

- Flange form BD L*, output shaft on left L*



Ot: 402 kg
+ mot

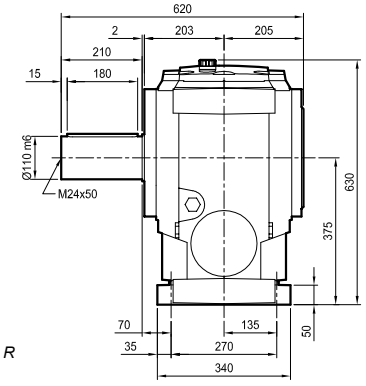
** option on right BDR R: identical flange and shaft*

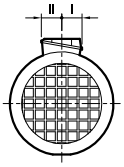
Dimensions
Ot 3833 - Integral mounting MI

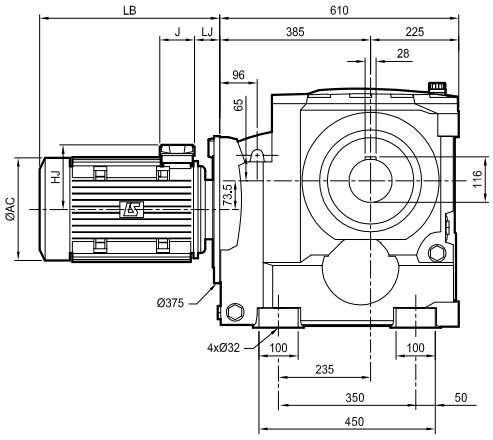
Dimensions in millimetres

- Foot mounted form S, output shaft on left L*

Ot: 378 kg
+ mot



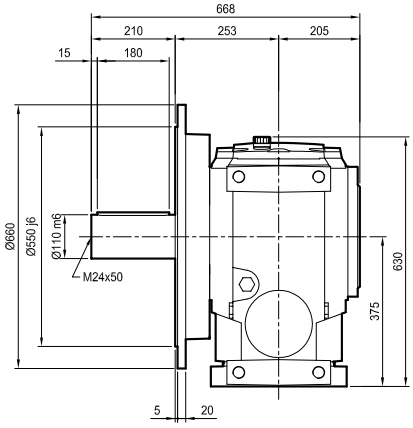


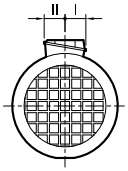


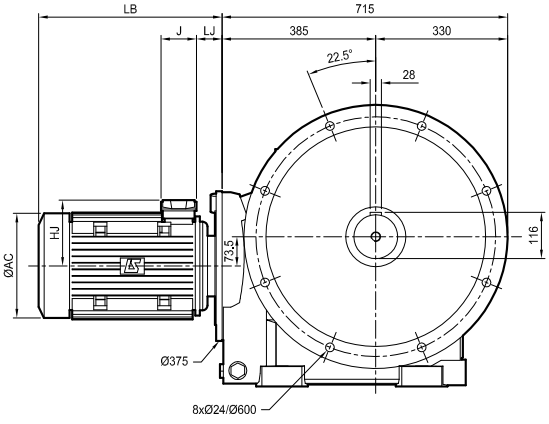
* *shaft on the right option R*

- Flange form BS L*, output shaft on left L*

Ot: 440 kg
+ mot







* *option on right BSR R: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 112 MU	235	149	87	349.5	53.5	43	43	34.4
LSES 132 SM	272	190	126	419	51	63	63	52
LSES 132 MU	272	190	126	433	38	63	63	62.6
LSES 160 MR	272	190	126	476	40	63	63	77.8
LSES 160 M	312	235	135	477	27	92	63	93
LSES 160 LUR	312	235	135	492	26	92	63	100
LSES 180 M	350	256	186	534	46	112	98	130
LSES 180 LUR	350	256	186	596	46	112	98	155
LSES 200 LU	390	276	186	661.5	69.5	112	98	225
LSES 225 SR	390	310	231	674.5	59.5	119	142	236
LSES 225 MG	479	405	292	812	70.5	151	181	318
LSES 250 ME	479	405	292	812	70.5	151	181	350
LSES 280 SD	479	405	292	872	70.5	151	181	428
LSES 280 MD	479	405	292	872	70.5	151	181	470

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*468*	*43.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	465.5	41	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*491*	*42.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	630	59.5	55	55	66.5
LS 132 M	***FFB 4***	*265*	*186*	*160*	*617*	*46.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	265	186	160	617	46.5	55	55	77.1
LSES 160 MR	**FFB 4**	264	186	160	651	47.5	55	55	92.3
LS 160 MP	***FFB 5***	*264*	*186*	*160*	*651*	*47.5*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*265*	*186*	*160*	*651*	*47.5*	*55*	*55*	*96.1*
LSES 160 M	**FFB 5**	312	248	186	677	29	112	98	110
LSES 160 LUR	**FFB 5**	312	248	186	672	28	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*677*	*28*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*665*	*26*	*92*	*63*	*152*
LS 200 LT	***FCPL54-H1D[2]***	*350*	*263*	*134*	*761*	*73*	*92*	*63*	*200*
LS 225 ST	***FCPL54-H1D[2]***	*390*	*283*	*134*	*823*	*96.5*	*92*	*63*	*242*
LS 225 MR	***FCPL54-H1D[2]***	*390*	*283*	*134*	*878*	*109.5*	*92*	*63*	*274*

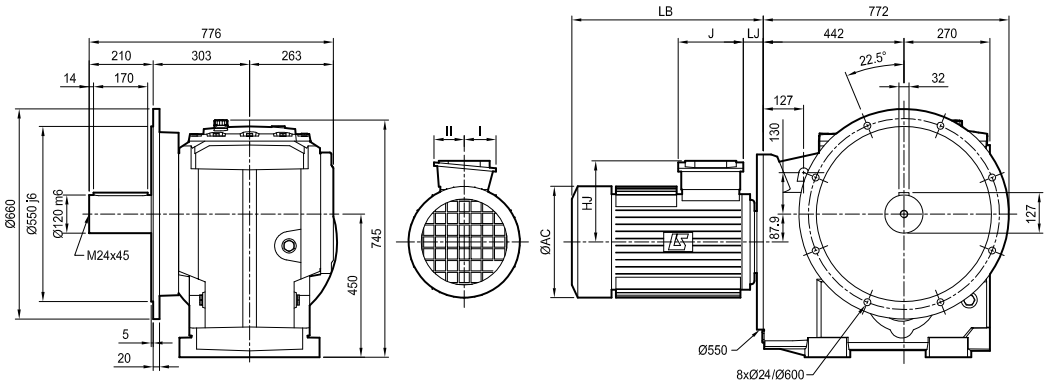
1. except brake motor in italics: not concerned by the IE

2. with CDF device

Dimensions
Ot 3933 - Integral mounting MI

Dimensions in millimetres

- Flange form BS L*, output shaft on left L*



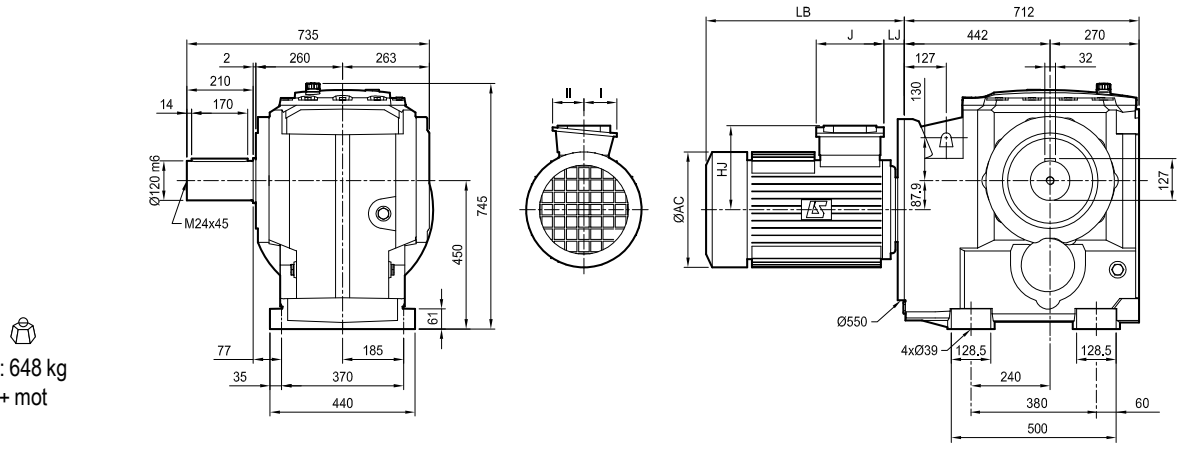
Ot: 726 kg
+ mot

** option on right BSR R: identical flange and shaft*

Dimensions
Ot 3933 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, output shaft on left L*



Ot: 648 kg
+ mot

** shaft on the right option R*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 132 MU	272	190	126	433	38	63	63	62.6
LSES 160 MR	272	190	126	476	40	63	63	77.8
LSES 160 M	312	235	135	477	27	92	63	93
LSES 160 LUR	312	235	135	492	26	92	63	100
LSES 180 M	350	256	186	534	46	112	98	130
LSES 180 LUR	350	256	186	596	46	112	98	155
LSES 200 LU	390	276	186	661.5	69.5	112	98	225
LSES 225 SR	390	310	231	674,5	59.5	119	142	236
LSES 225 MG	479	405	292	812	70.5	151	181	318
LSES 250 ME	479	405	292	812	70.5	151	181	350
LSES 280 SD	479	405	292	872	70.5	151	181	428
LSES 280 MD	479	405	292	872	70.5	151	181	470

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 132 M	***FFB 4***	*265*	*186*	*160*	*617*	*46.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	265	186	160	617	46.5	55	55	77.1
LSES 160 MR	**FFB 4**	264	186	160	651	47.5	55	55	92.3
LS 160 MP	***FFB 5***	*264*	*186*	*160*	*651*	*47.5*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*265*	*186*	*160*	*651*	*47.5*	*55*	*55*	*96.1*
LSES 160 M	**FFB 5**	312	248	186	665	29	112	98	110
LSES 160 LUR	**FFB 5**	312	248	186	659	28	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*665*	*28*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*665*	*26*	*92*	*63*	*152*
LS 200 LT	***FCPL54-H1D***[2]	*350*	*263*	*134*	*761*	*73*	*92*	*63*	*200*
LS 225 ST	***FCPL54-H1D***[2]	*390*	*283*	*134*	*823*	*96.5*	*92*	*63*	*242*
LS 225 MR	***FCPL54-H1D***[2]	*390*	*283*	*134*	*865*	*96.5*	*92*	*63*	*274*

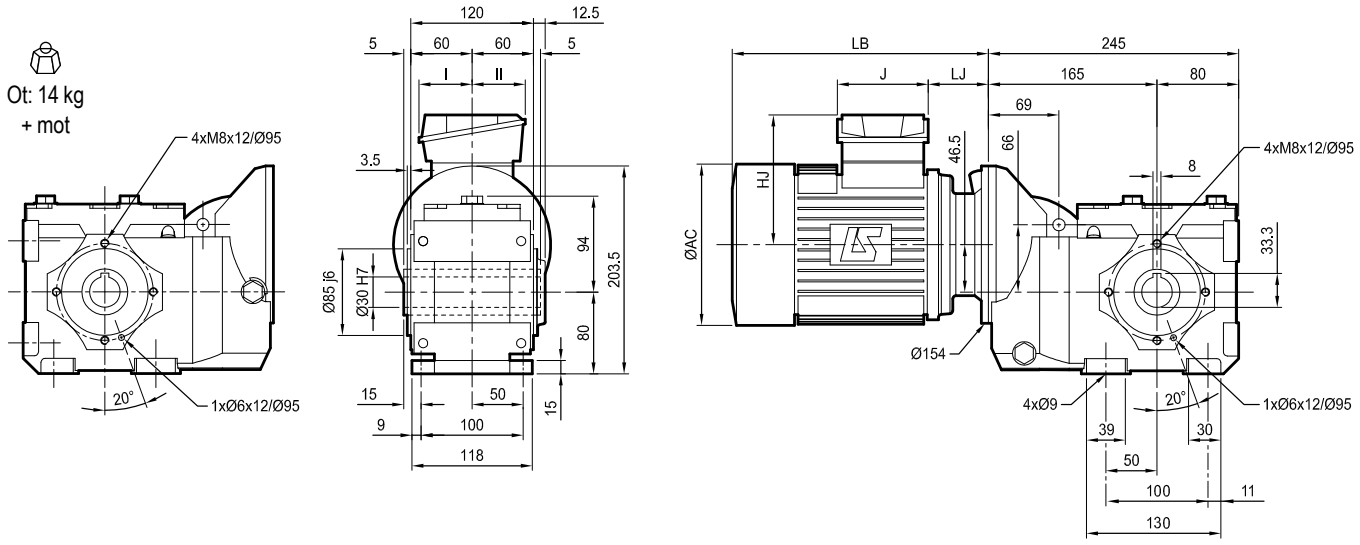
1. except brake motor in italics: not concerned by the IE

2. with CDF device

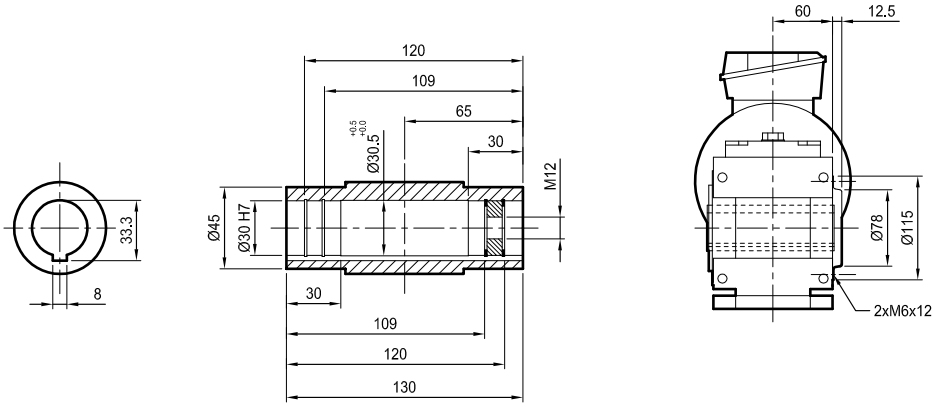
Dimensions
Ot 3132 - Integral mounting MI

Dimensions in millimetres

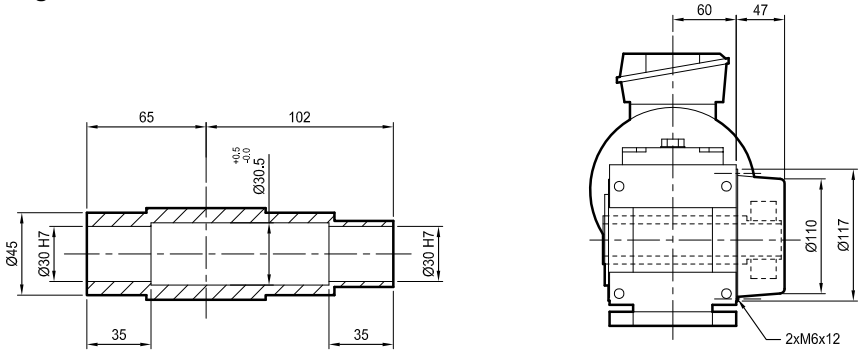
- Tapped form SBT LR, cylindrical hollow shaft H



- Hollow shaft details H



- Option: shrink disc on the right SDR*



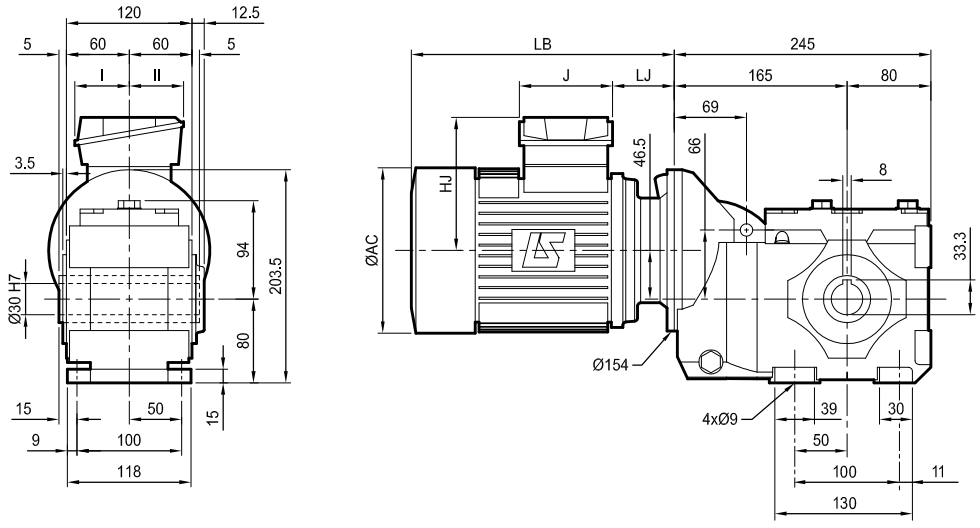
** left SDL*

Dimensions
Ot 3132 - Integral mounting MI

Dimensions in millimetres

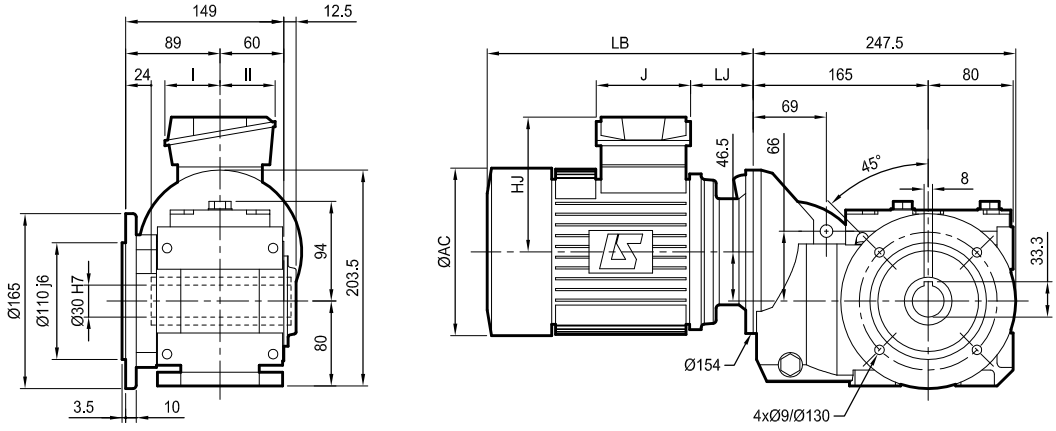
- Foot mounted form S, cylindrical hollow shaft H

Ot: 14.5 kg
+ mot



- Flange form BS L*, cylindrical hollow shaft H

Ot: 14.8 kg
+ mot



** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	199.5	37	43.5	43.5	7.3
LSES 71 L	140	109	87	207.5	37	43.5	43.5	8.3
LSES 80 LG	190	135	87	288	67.5	43.5	43.5	14.1
LSES 90 SL	190	135	87	290	71	43.5	43.5	16.2
LSES 90 LU	190	135	87	321.5	71	43.5	43.5	20.4
LSES 100 L	200	140	87	335.5	72	43.5	43.5	23
LSES 100 LR	200	140	87	354.5	72	43.5	43.5	25.8
LSES 100 LG	235	149	87	350.5	71	43.5	43.5	31

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*300*	*25.5*	*55*	*55*	*11.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*306*	*25.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*347*	*49.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	430	55.5	55	55	18
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	435	59	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	435	59	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*483*	*60*	*55*	*55*	*29.6*
LSES 100 L	**FFB 2**	200	156	160	483	60	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	483	60	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	459	59	55	55	37.6

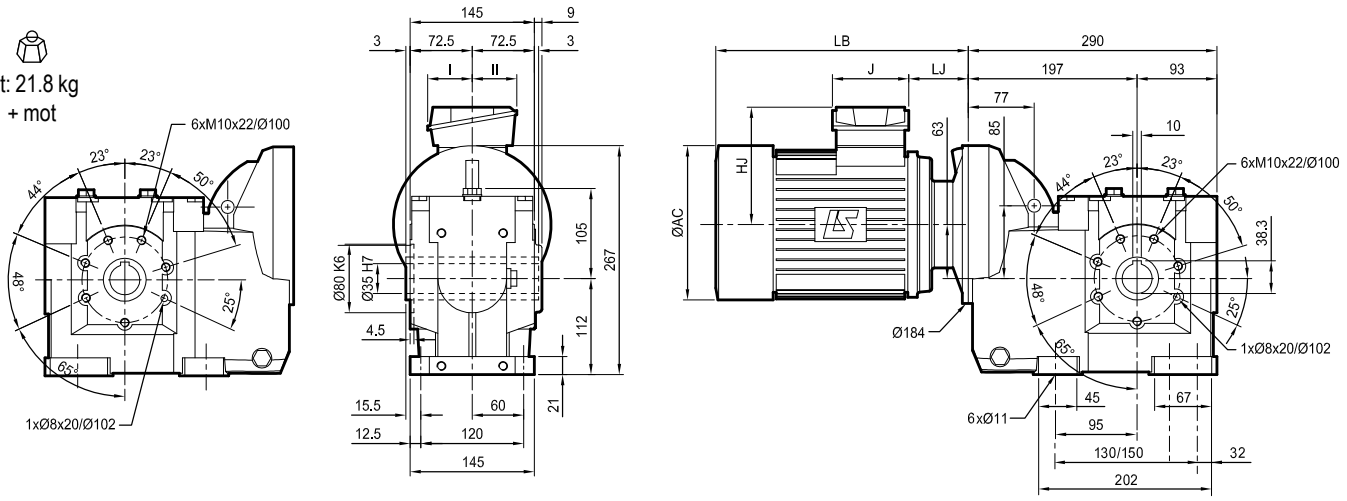
1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3232 - Integral mounting MI

Dimensions in millimetres

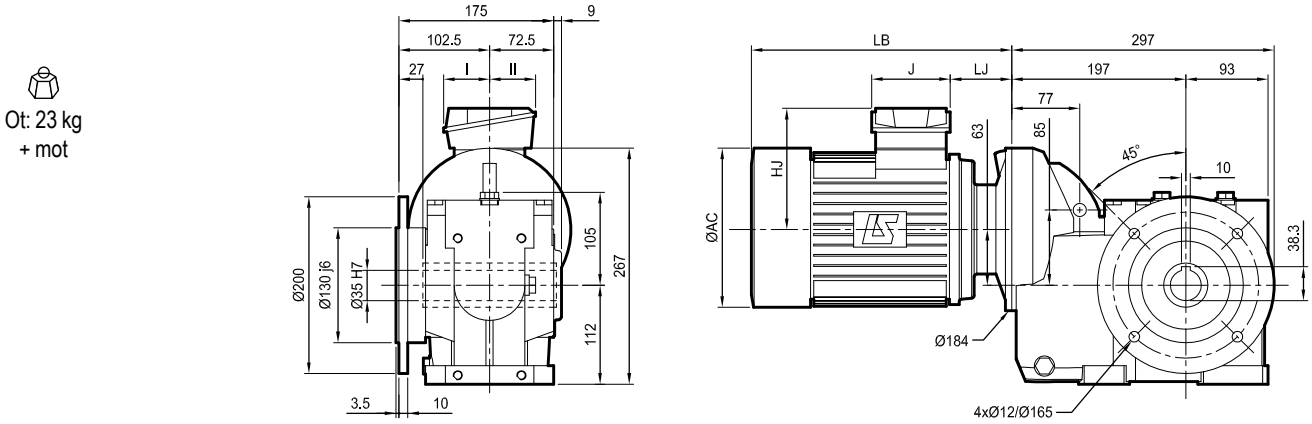
- Tapped form SBT LR, cylindrical hollow shaft H

Ot: 21.8 kg
+ mot



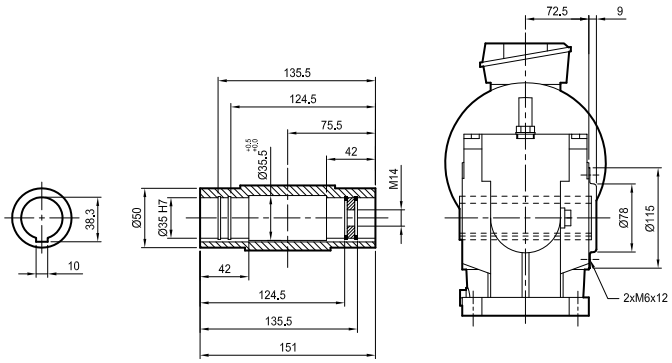
- Flange form BD L, cylindrical hollow shaft H

Ot: 23 kg
+ mot

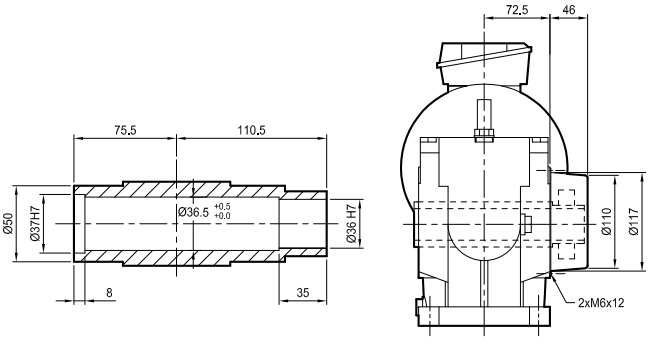


** option on right BDR H: identical flange and shaft*

- Hollow shaft details H



- Option: shrink disc on the right SDR*



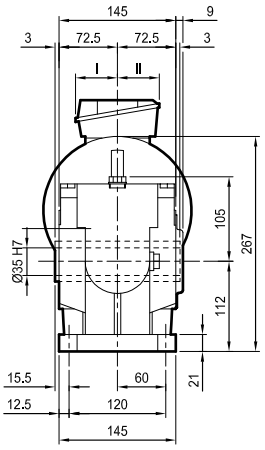
** left SDL*

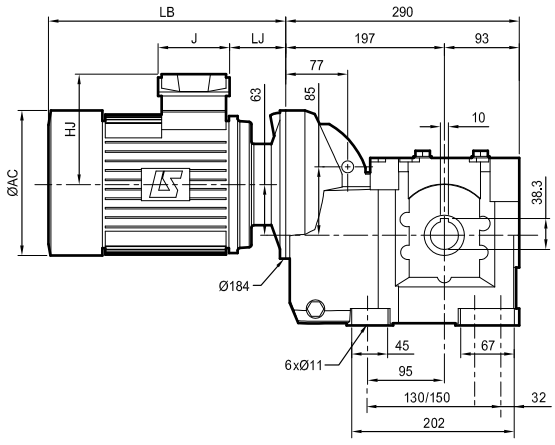
Dimensions
Ot 3232 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, cylindrical hollow shaft H

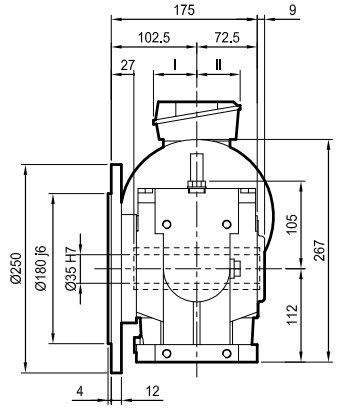
Ot: 22 kg
+ mot

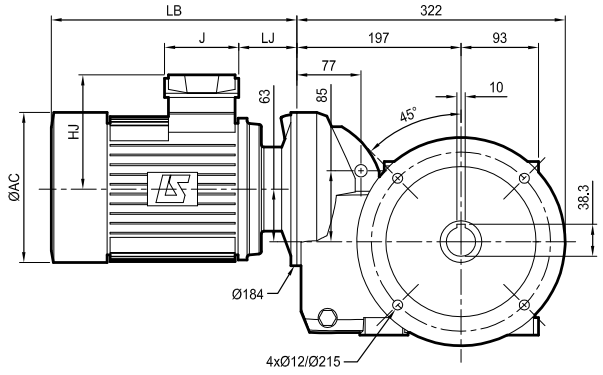




- Flange form BS L*, cylindrical hollow shaft H

Ot: 23.3 kg
+ mot





** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	199.5	37	43.5	43.5	7.3
LSES 71 L	140	109	87	207.5	37	43.5	43.5	8.3
LSES 80 LG	190	135	87	288	67.5	43.5	43.5	14.1
LSES 90 SL	190	135	87	290	71	43.5	43.5	16.2
LSES 90 LU	190	135	87	321.5	71	43.5	43.5	20.4
LSES 100 L	200	140	87	335.5	72	43.5	43.5	22.6
LSES 100 LR	200	140	87	354.5	72	43.5	43.5	25.8
LSES 100 LG	235	149	87	350.5	71	43.5	43.5	31
LSES 112 MU	235	149	87	368.5	71	43	43	37
LSES 132 SM	272	190	126	437	69	63	63	52

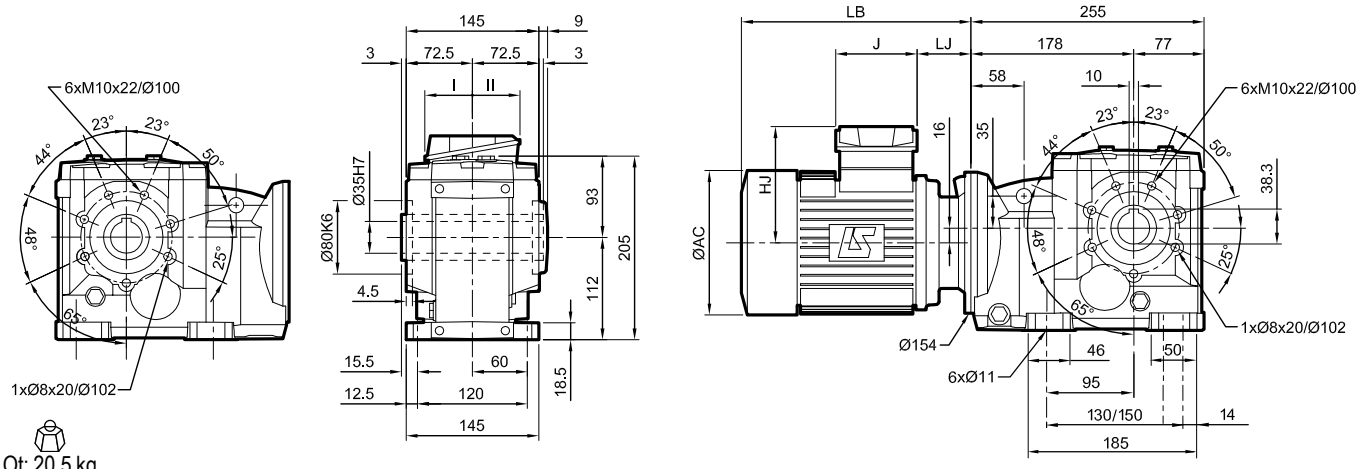
Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*10.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*347*	*49.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	430	55.5	55	55	17.1
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	435	59	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	435	59	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*483*	*60*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	483	60	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	483	60	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	459	59	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*486*	*61.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	484	59	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*509*	*60.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	648	77.5	55	55	66.5

1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3233 - Integral mounting MI

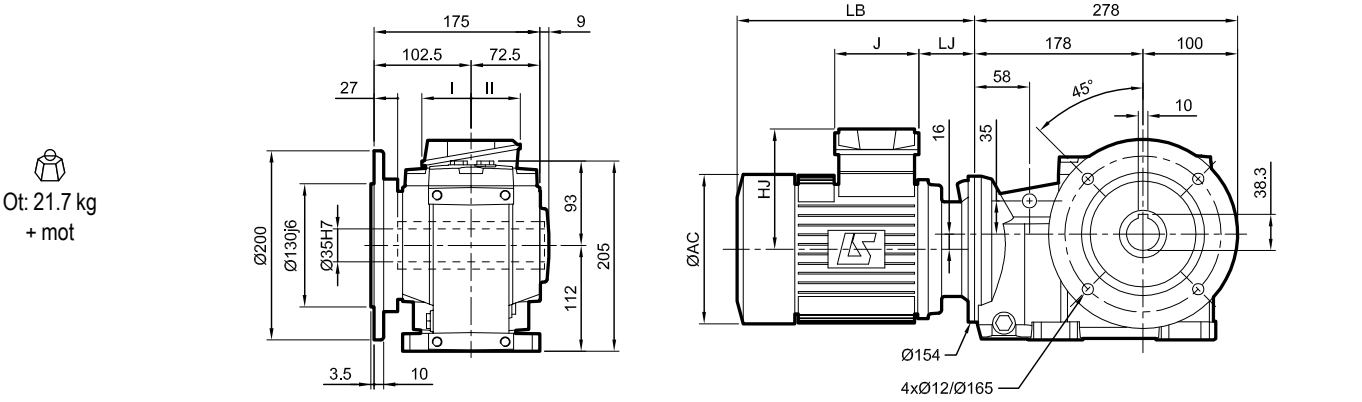
Dimensions in millimetres

- Tapped form SBT LR, cylindrical hollow shaft H



Ot: 20.5 kg
+ mot

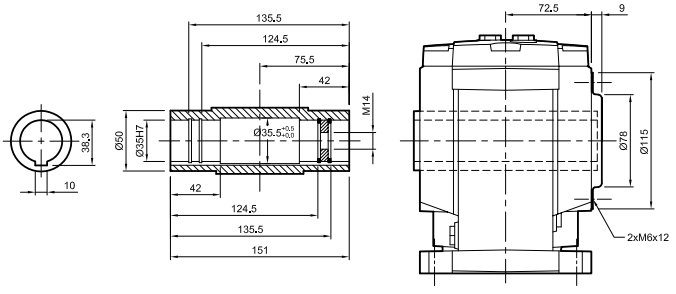
- Flange form BD L*, cylindrical hollow shaft H



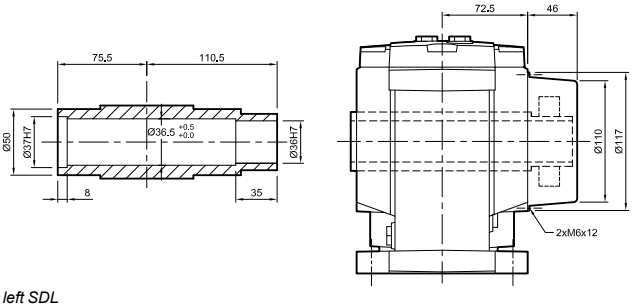
Ot: 21.7 kg
+ mot

* *option on right BDR H: identical flange and shaft*

- Hollow shaft details H



- Option: shrink disc on the right SDR*



* *left SDL*

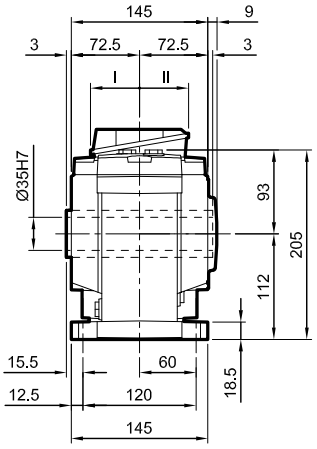
Keying on driven shaft: according to NF E22-175

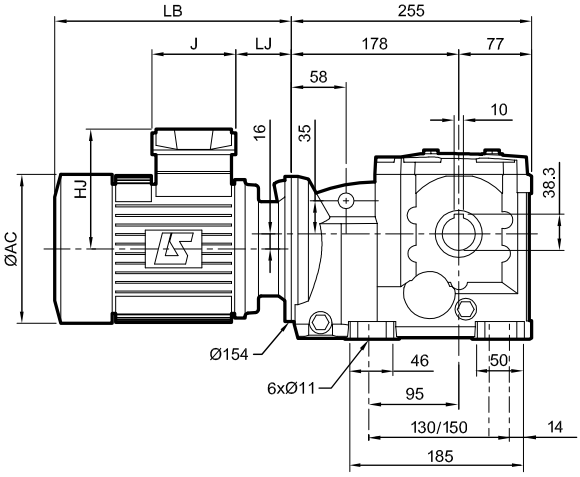
Dimensions
Ot 3233 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, cylindrical hollow shaft H

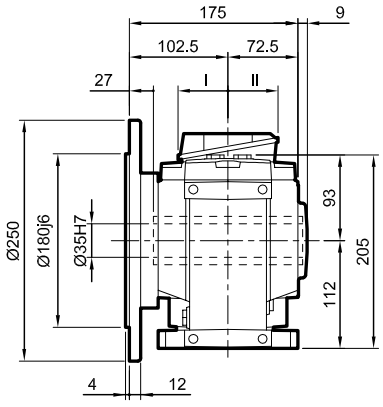
Ot: 21 kg
+ mot

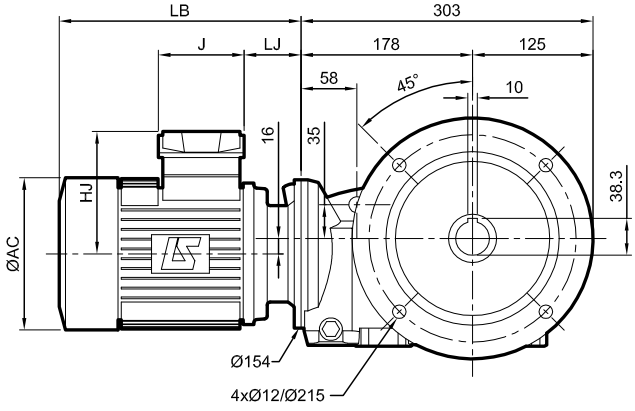




- Flange form BS L*, cylindrical hollow shaft H

Ot: 22 kg
+ mot





** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	199.5	37	43.5	43.5	7.3
LSES 71 L	140	109	87	207.5	37	43.5	43.5	8.3
LSES 80 LG	190	135	87	288	67.5	43.5	43.5	14.1
LSES 90 SL	190	135	87	290	71	43.5	43.5	16.2
LSES 90 LU	190	135	87	321.5	71	43.5	43.5	20.4
LSES 100 L	200	140	87	335.5	72	43.5	43.5	23
LSES 100 LR	200	140	87	354.5	72	43.5	43.5	25.8
LSES 100 LG	235	149	87	350.5	71	43.5	43.5	31

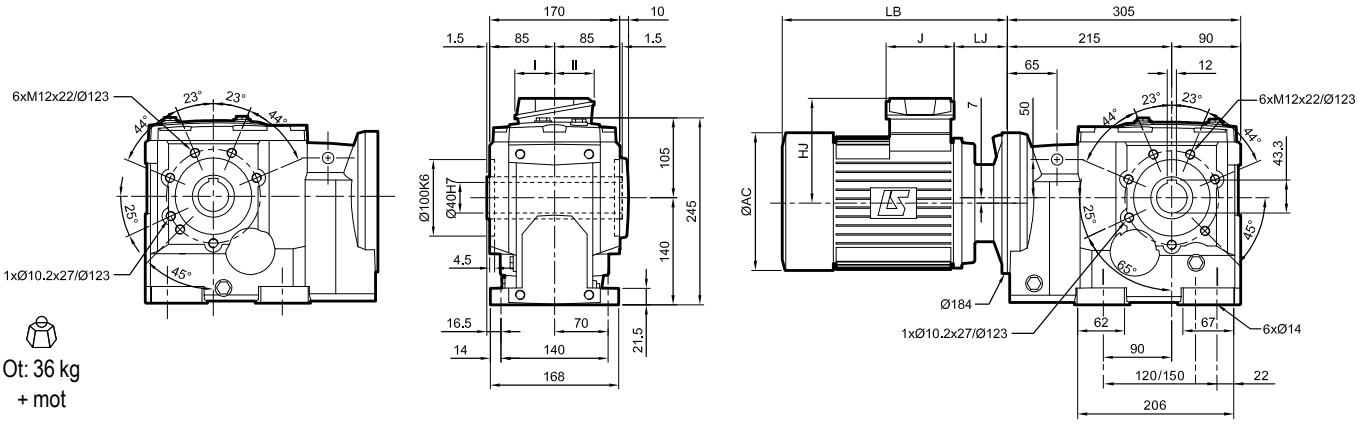
Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*300*	*25.5*	*55*	*55*	*11.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*306*	*25.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*347*	*49.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	430	55.5	55	55	18
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	435	59	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	435	59	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*483*	*60*	*55*	*55*	*29.6*
LSES 100 L	**FFB 2**	200	156	160	483	60	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	483	60	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	459	59	55	55	37.6

1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3333 - Integral mounting MI

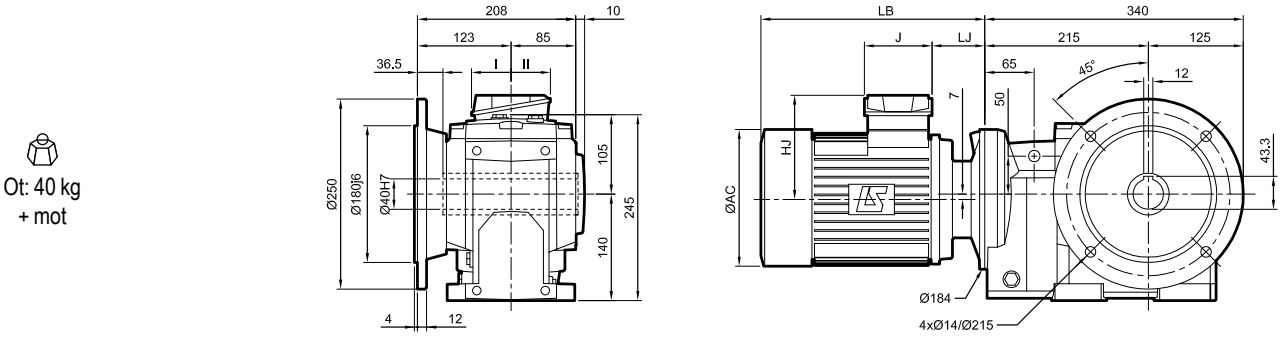
Dimensions in millimetres

- Tapped form SBT LR, cylindrical hollow shaft H



Ot: 36 kg
+ mot

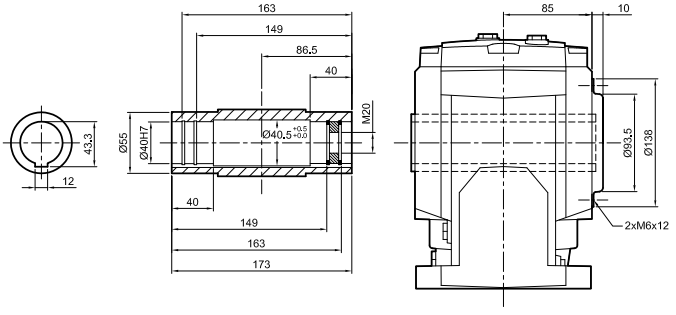
- Flange form BD L*, cylindrical hollow shaft H



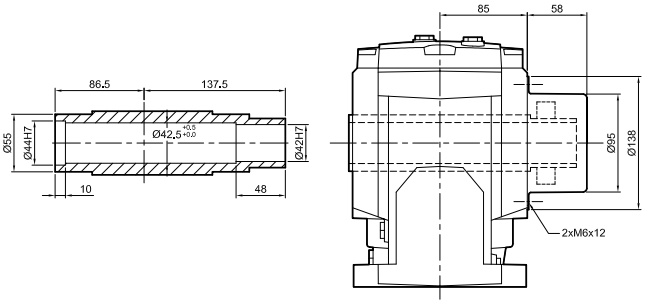
Ot: 40 kg
+ mot

** option on right BDR H: identical flange and shaft*

- Hollow shaft details H



- Option: shrink disc on the right SDR*



** left SDL*

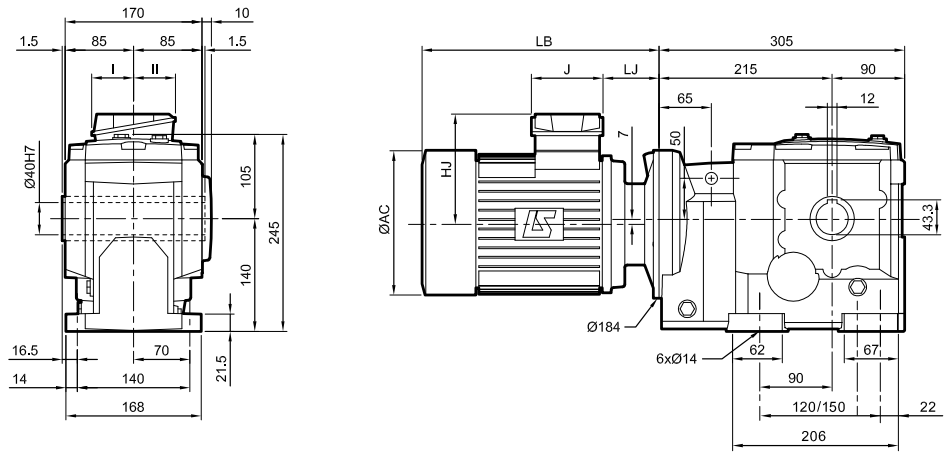
Keying on driven shaft: according to NF E22-175

Dimensions
Ot 3333 - Integral mounting MI

Dimensions in millimetres

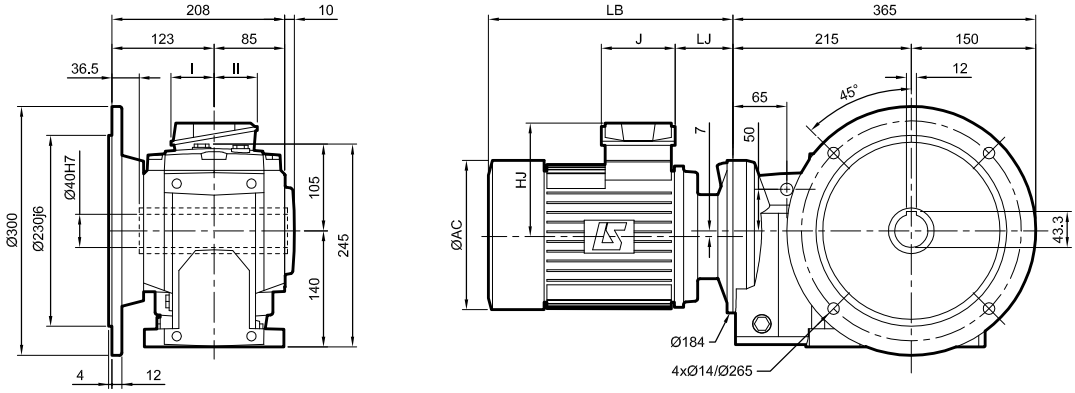
- Foot mounted form S, cylindrical hollow shaft H

Ot: 37 kg
+ mot



- Flange form BS L*, cylindrical hollow shaft H

Ot: 40 kg
+ mot



** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							
	AC	HJ	J	LB	LJ	I	II	kg
LSES 71 M	140	109	87	199.5	37	43.5	43.5	7.3
LSES 71 L	140	109	87	207.5	37	43.5	43.5	8.3
LSES 80 LG	190	135	87	288	67.5	43.5	43.5	14.1
LSES 90 SL	190	135	87	290	71	43.5	43.5	16.2
LSES 90 LU	190	135	87	321.5	71	43.5	43.5	20.4
LSES 100 L	200	140	87	335.5	72	43.5	43.5	22.6
LSES 100 LR	200	140	87	354.5	72	43.5	43.5	25.8
LSES 100 LG	235	149	87	350.5	71	43.5	43.5	31
LSES 112 MU	235	149	87	368.5	71	43	43	37
LSES 132 SM	272	190	126	437	69	63	63	52

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							
		AC	HJ	J	LB	LJ	I	II	kg
LS 71 M	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*10.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*347*	*49.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	430	55.5	55	55	17.1
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	435	59	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*435*	*59*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	435	59	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*483*	*60*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	483	60	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	483	60	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	459	59	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*486*	*61.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	484	59	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*509*	*60.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	648	77.5	55	55	66.5

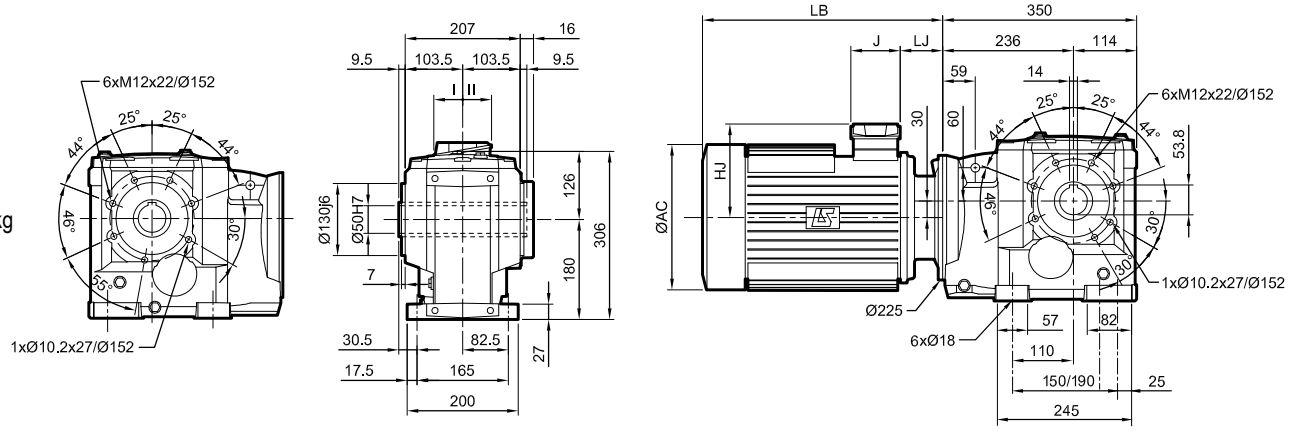
1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3433 - Integral mounting MI

Dimensions in millimetres

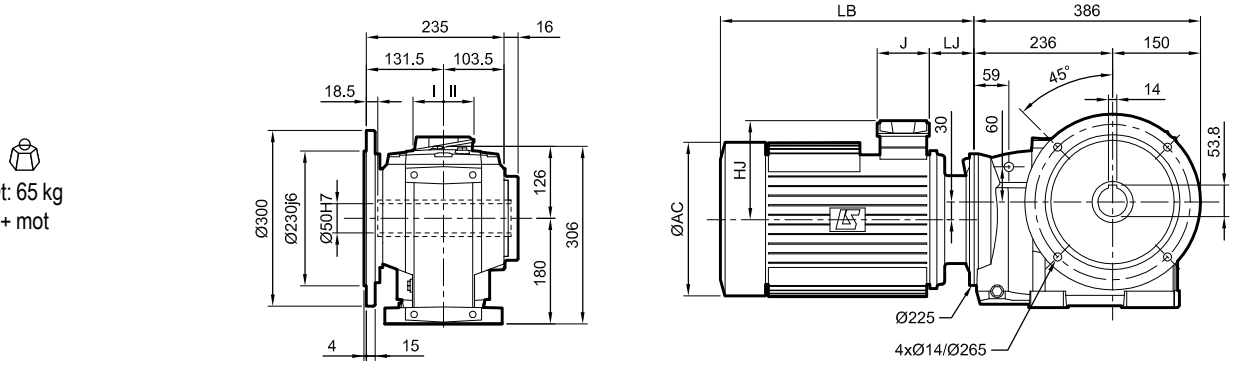
- Tapped form SBT LR, cylindrical hollow shaft H

Ot: 58 kg
+ mot



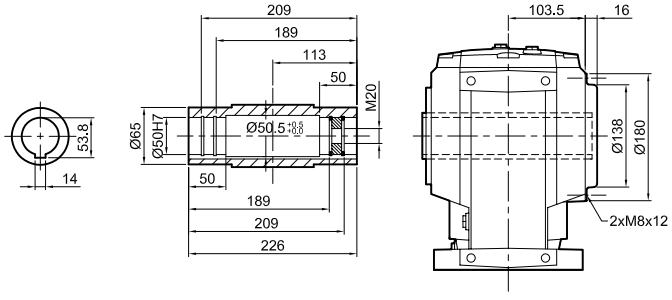
- Flange form BD L*, cylindrical hollow shaft H

Ot: 65 kg
+ mot



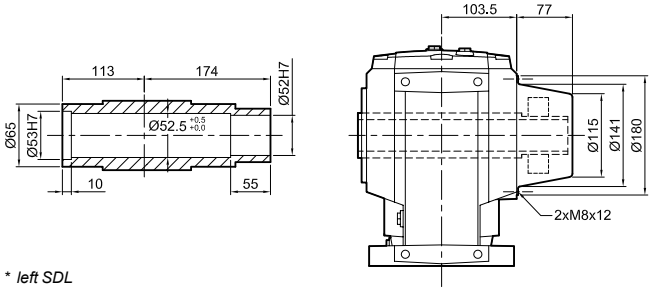
** option on right BDR H: identical flange and shaft*

- Hollow shaft details H



Keying on driven shaft: according to NF E22-175

- Option: shrink disc on the right SDR*



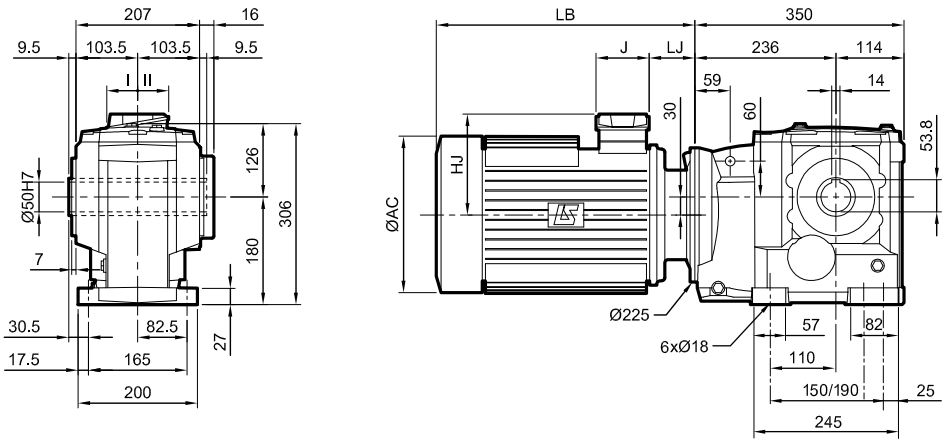
** left SDL*

Dimensions
Ot 3433 - Integral mounting MI

Dimensions in millimetres

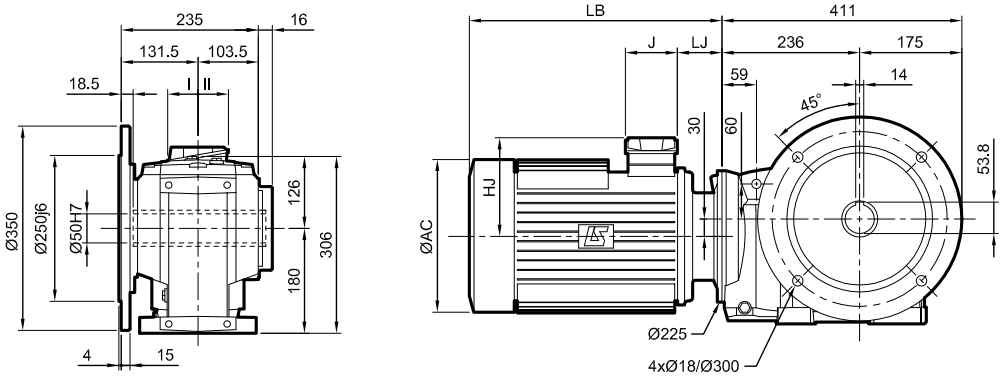
- Foot mounted form S, cylindrical hollow shaft H

Ot: 58.5 kg
+ mot



- Flange form BS L*, cylindrical hollow shaft H

Ot: 66 kg
+ mot



** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 71 M	140	109	87	195.5	33	43	43	7.3
LSES 71 L	140	109	87	203.5	33	43	43	9
LSES 80 LG	190	135	87	284	63.5	43	43	15
LSES 90 SL	190	135	87	286	67	43	43	16.2
LSES 90 LU	190	135	87	317.5	67	43	43	20.4
LSES 100 L	200	140	87	331.5	68	43	43	23
LSES 100 LR	200	140	87	331.5	68	43	43	25.8
LSES 100 LG	235	149	87	346.5	67	43	43	31
LSES 112 MU	235	149	87	364.5	67	43	43	37
LSES 132 SM	272	190	126	433	65	63	63	52
LSES 132 MU	272	190	126	460	65	63	63	62.6

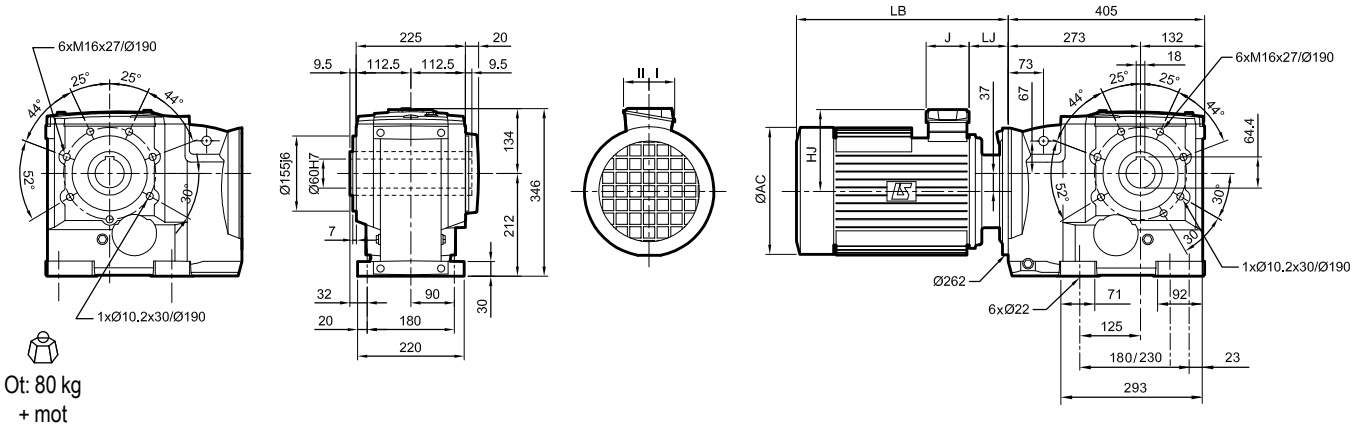
Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 71 M	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*10.3*
LS 71 L	***FFB 1***	*140*	*130*	*160*	*296*	*21.5*	*55*	*55*	*11.3*
LS 80 L	***FFB 1***	*170*	*141*	*160*	*343*	*45.5*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	426	51.5	55	55	18
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*431*	*55*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	431	55	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*431*	*55*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	431	55	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*479*	*56*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	479	56	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	479	56	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	455	55	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*448*	*28.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	480	55	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*505*	*56.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	644	73.5	55	55	66.5
LS 132 M	***FFB 4***	*272*	*186*	*160*	*644*	*73.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	272	186	160	644	73.5	55	55	77.1

1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3533 - Integral mounting MI

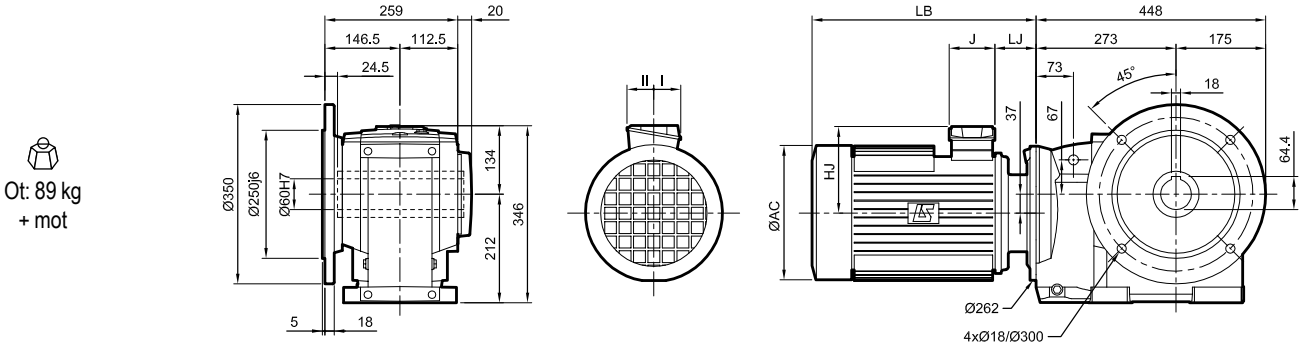
Dimensions in millimetres

- Tapped form SBT LR, cylindrical hollow shaft H



Ot: 80 kg
+ mot

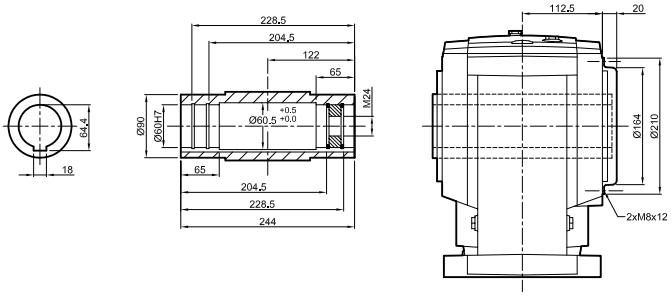
- Flange form BD L*, cylindrical hollow shaft H



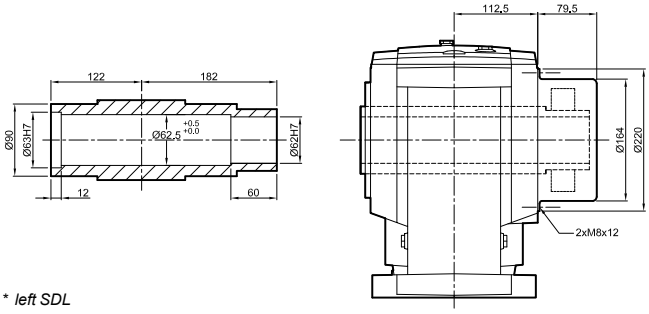
Ot: 89 kg
+ mot

** option on right BDR H: identical flange and shaft*

- Hollow shaft details H



- Option: shrink disc on the right SDR*



** left SDL*

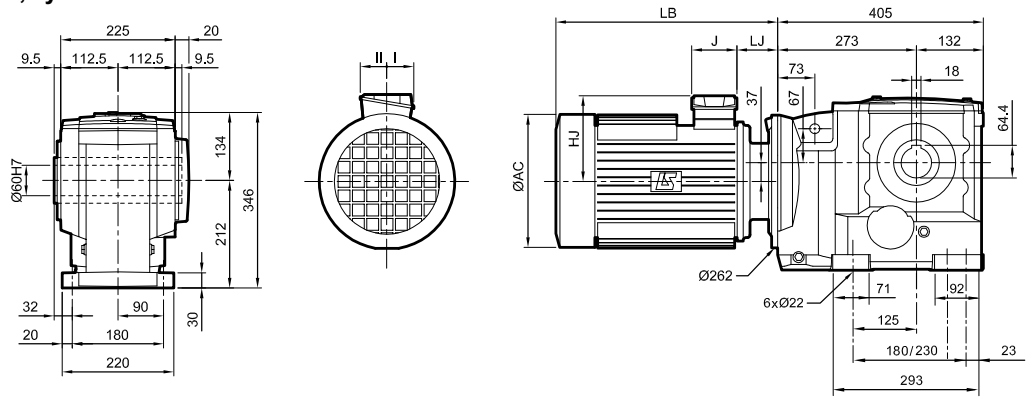
Keying on driven shaft: according to NF E22-175

Dimensions
Ot 3533 - Integral mounting MI

Dimensions in millimetres

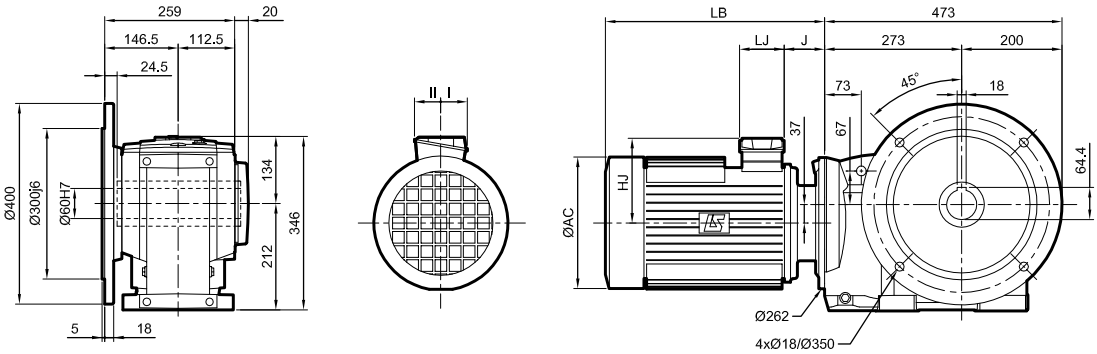
- Foot mounted form S, cylindrical hollow shaft H

Ot: 82 kg
+ mot



- Flange form BS L*, cylindrical hollow shaft H

Ot: 91 kg
+ mot



** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							
	AC	HJ	J	LB	LJ	I	II	kg
LSES 80 LG	190	135	87	288.5	68	43	43	15
LSES 90 SL	190	135	87	286	67	43	43	16.2
LSES 90 LU	190	135	87	317.5	67	43	43	20.4
LSES 100 L	200	140	87	331.5	68	43	43	23
LSES 100 LR	200	140	87	350.5	68	43	43	25.8
LSES 100 LG	235	149	87	346.5	67	43	43	31
LSES 112 MU	235	149	87	364.5	67	43	43	37
LSES 132 SM	272	190	126	437	69	63	63	52
LSES 132 MU	272	190	126	464	69	63	63	62.6
LSES 160 MR	272	190	126	506	69.5	63	63	78
LSES 160 M	312	235	135	508	55.8	88	64	93
LSES 160 LUR	312	235	135	523	55.8	88	64	100
LSES 180 M	350	256	186	565	76.5	112	98	130
LSES 180 LUR	350	256	186	627	76.5	112	98	155

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							
		AC	HJ	J	LB	LJ	I	II	kg
LS 80 L	***FFB 1***	*170*	*141*	*160*	*348*	*50*	*55*	*55*	*13.9*
LSES 80 LG	**FFB 1**	190	151	160	431	56	55	55	18
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*431*	*55*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	431	55	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*431*	*55*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	431	55	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*479*	*56*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	479	55	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	479	55	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	455	55	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*482*	*28.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	480	55	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*509*	*60.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	648	77.5	55	55	66.5
LS 132 M	***FFB 4***	*272*	*186*	*160*	*648*	*77.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	272	186	160	648	77.5	55	55	77.1
LSES 160 MR	**FFB 4**	272	186	160	683	77	55	55	92.3
LS 160 MP	***FFB 5***	*272*	*186*	*160*	*682*	*77*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*272*	*186*	*160*	*682*	*77*	*55*	*55*	*96.1*
LSES 160 M	**FFB 5**	312	248	186	695	59	112	98	117
LSES 160 LUR	**FFB 5**	312	248	186	690	59	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*695*	*59*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*696*	*57*	*92*	*63*	*152*

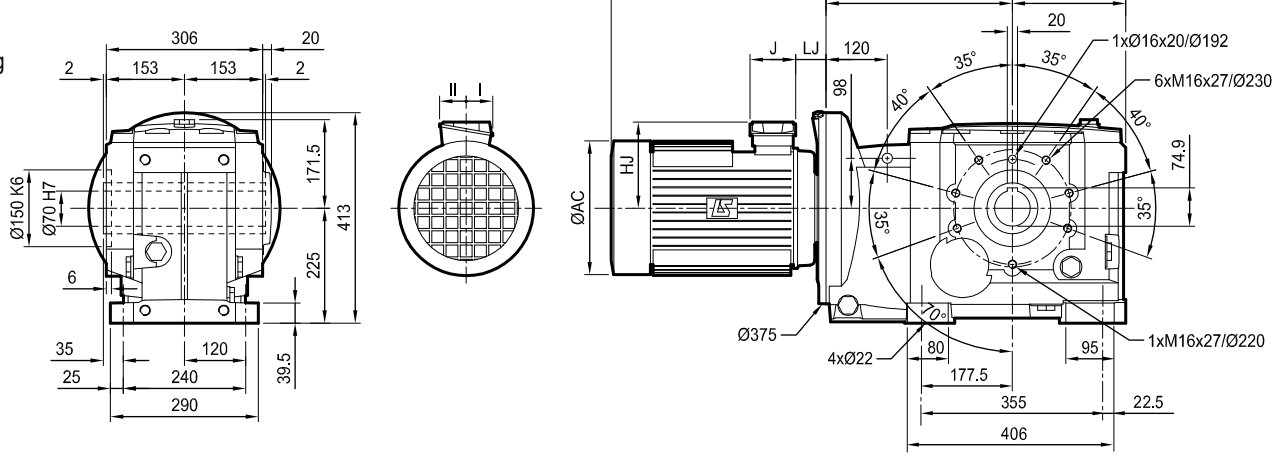
1. except brake motor in italics: not concerned by the IE

Dimensions
Ot 3633 - Integral mounting MI

Dimensions in millimetres

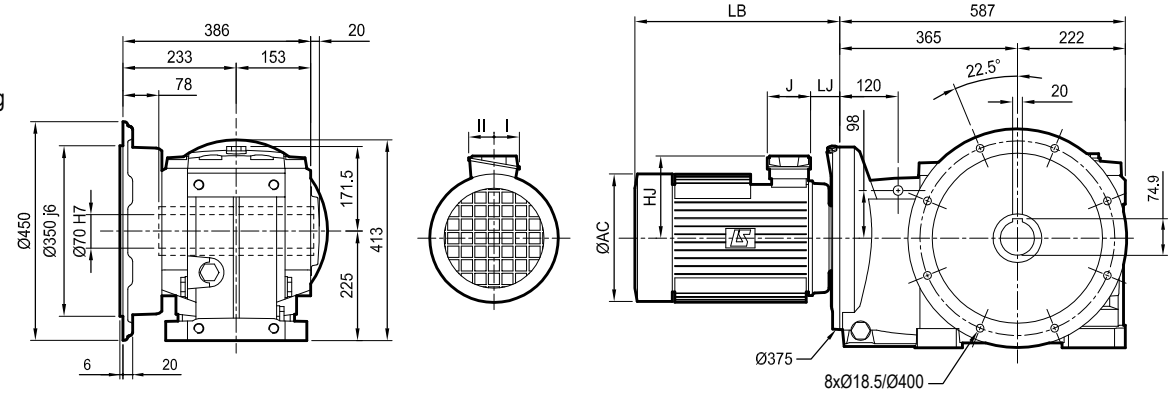
- Tapped form SBT LR, cylindrical hollow shaft H

Ot: 186 kg
+ mot



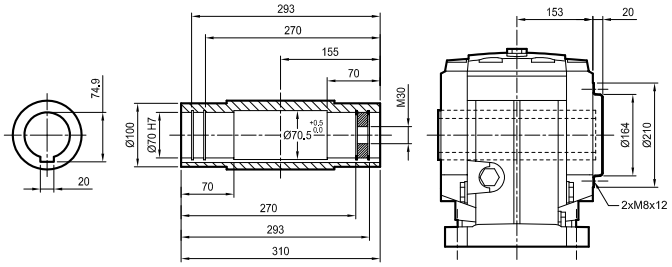
- Flange form BD L*, cylindrical hollow shaft H

Ot: 216 kg
+ mot

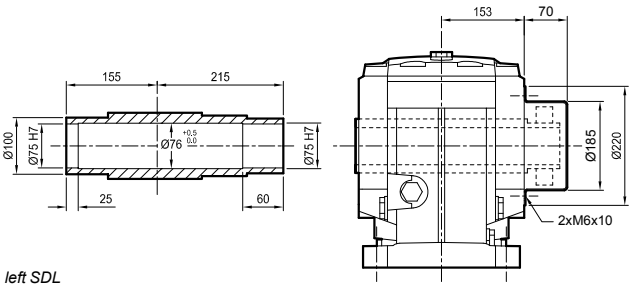


** option on right BDR H: identical flange and shaft*

- Hollow shaft details H



- Option: shrink disc on the right SDR*



** left SDL*

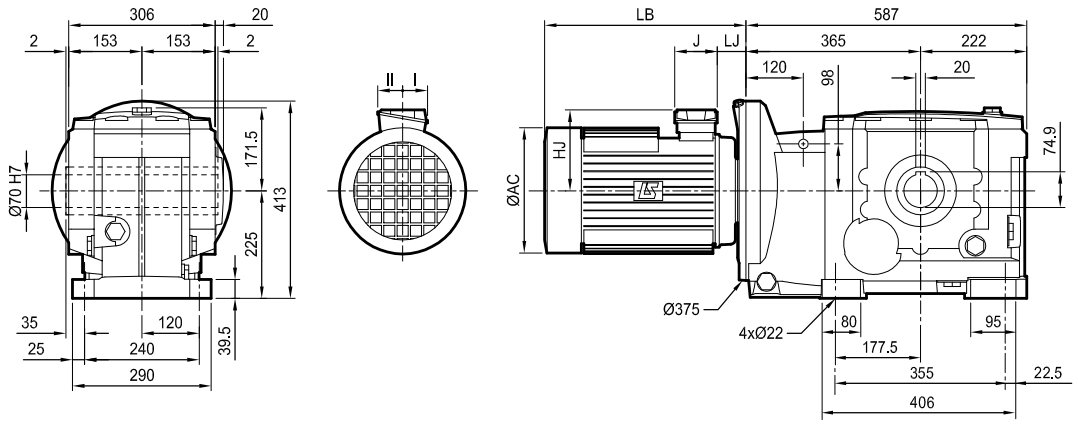
Keying on driven shaft: according to NF E22-175

Dimensions
Ot 3633 - Integral mounting MI

- Foot mounted form S, cylindrical hollow shaft H

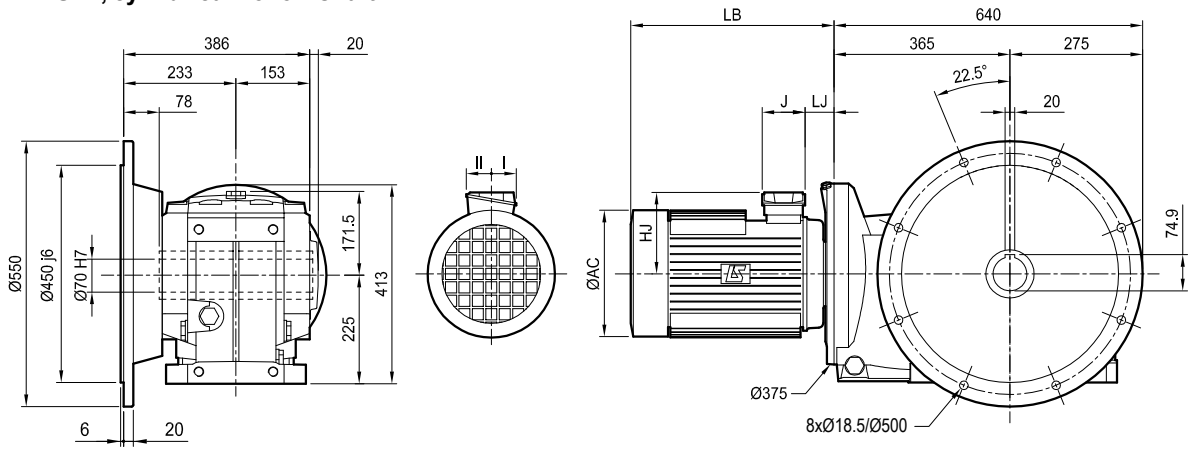
Dimensions in millimetres

Ot: 188 kg
+ mot



- Flange form BS L*, cylindrical hollow shaft H

Ot: 222 kg
+ mot



* *option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							
	AC	HJ	J	LB	LJ	I	II	kg
LSES 90 SL	190	135	87	272	53	43	43	16.2
LSES 90 LU	190	135	87	303.5	53	43	43	20.4
LSES 100 L	200	140	87	317.5	54	43	43	22.6
LSES 100 LR	200	140	87	336.5	54	43	43	25.8
LSES 100 LG	235	149	87	332.5	53	43	43	31
LSES 112 MU	235	149	87	350.5	53	43	43	37
LSES 132 SM	272	190	126	419	51	63	63	52
LSES 132 MU	272	190	126	446	51	63	63	62.6
LSES 160 MR	272	190	126	489	52.5	63	63	77.8
LSES 160 M	312	235	135	490	37.8	88	64	93
LSES 160 LUR	312	235	135	505	37.8	88	64	100
LSES 180 M	350	256	186	547	58.8	112	98	130
LSES 180 LUR	350	256	186	609	58.8	112	98	155
LSES 200 LU	390	276	186	674	82	112	98	225
LSES 225 SR	390	310	231	674.5	59.5	119	142	236
LSES 225 MG	479	405	292	825	83.5	151	181	318

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							
		AC	HJ	J	LB	LJ	I	II	kg
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*417*	*41*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	417	41	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*417*	*41*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	417	41	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*465*	*41*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	465	41	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	465	41	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	441	41	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*468*	*43.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	466	41	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*491*	*42.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	630	59.5	55	55	66.5
LS 132 M	***FFB 4***	*272*	*186*	*160*	*630*	*59.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	272	186	160	665	61.5	55	55	77.1
LSES 160 MR	**FFB 4**	272	186	160	664	60.5	55	55	92.3
LS 160 MP	***FFB 5***	*272*	*186*	*160*	*664*	*60.5*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*272*	*186*	*160*	*664*	*60.5*	*55*	*55*	*96*
LSES 160 M	**FFB 5**	312	248	186	677	46.8	112	98	110
LSES 160 LUR	**FFB 5**	312	248	186	672	41	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*677*	*41*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*678*	*39*	*92*	*63*	*152*
LS 200 LT	***FCPL54-H1D[2]***	*350*	*263*	*134*	*774*	*86*	*92*	*63*	*200*
LS 225 ST	***FCPL54-H1D[2]***	*390*	*283*	*134*	*836*	*109.5*	*92*	*63*	*242*
LS 225 MR	***FCPL54-H1D[2]***	*390*	*283*	*134*	*878*	*109.5*	*92*	*63*	*274*

1. except brake motor in italics: not concerned by the IE

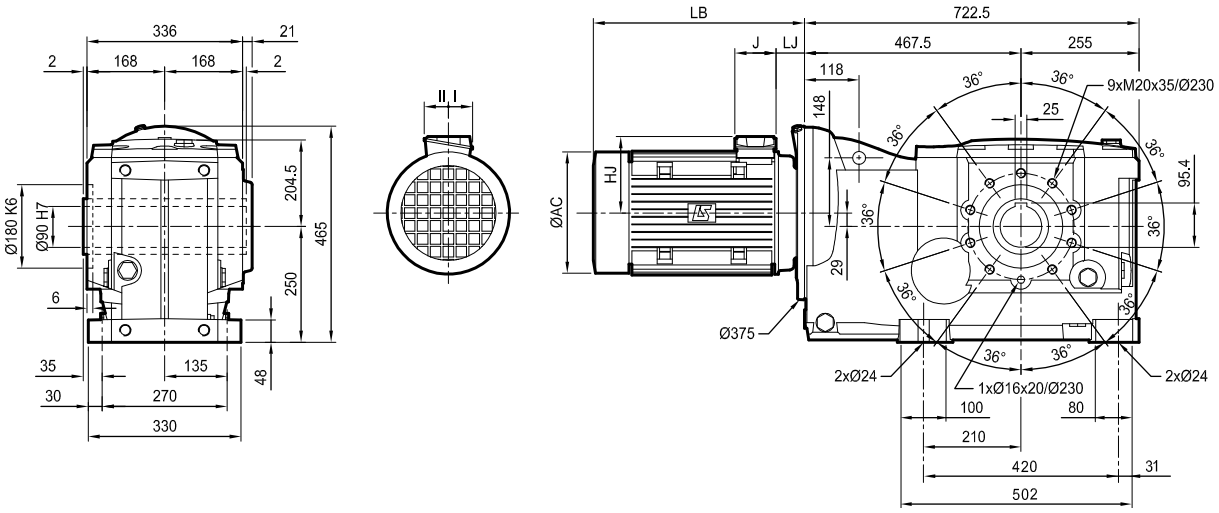
2. with CDF device

Dimensions
Ot 3733 - Integral mounting MI

Dimensions in millimetres

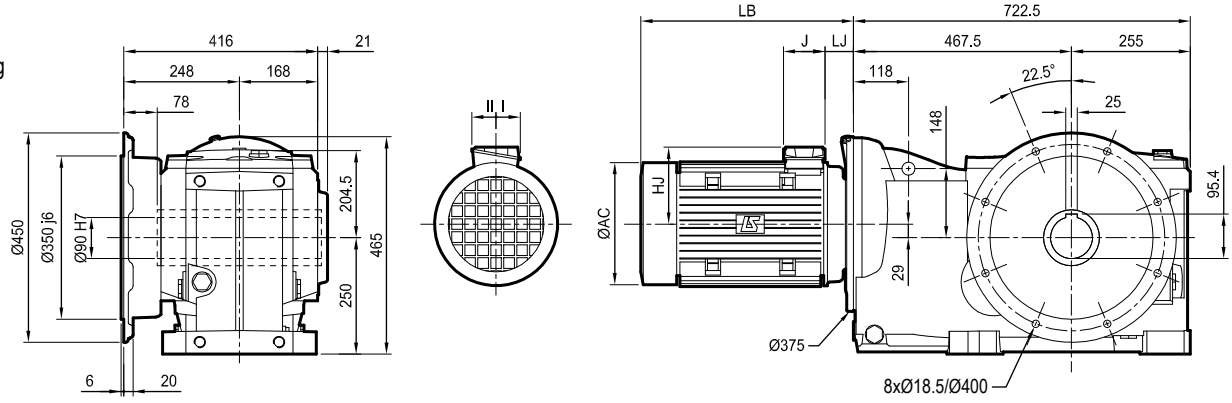
- Tapped form SBT LR, cylindrical hollow shaft H

Ot: 289 kg
+ mot



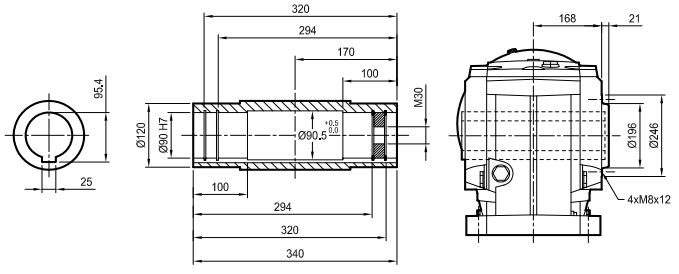
- Flange form BD L*, cylindrical hollow shaft H

Ot: 322 kg
+ mot



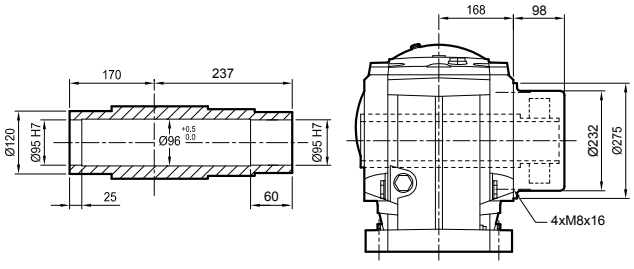
* *option on right BDR H: identical flange and shaft*

- Hollow shaft details H



Keying on driven shaft: according to NF E22-175

- Option: shrink disc on the right SDR*



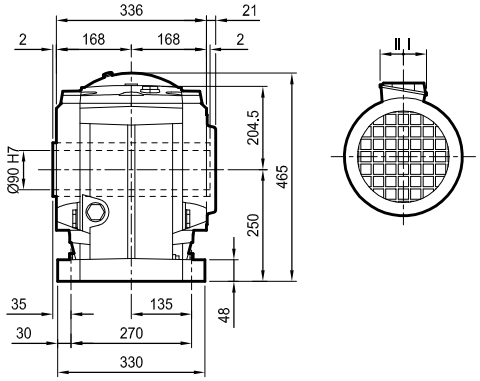
* *left SDL*

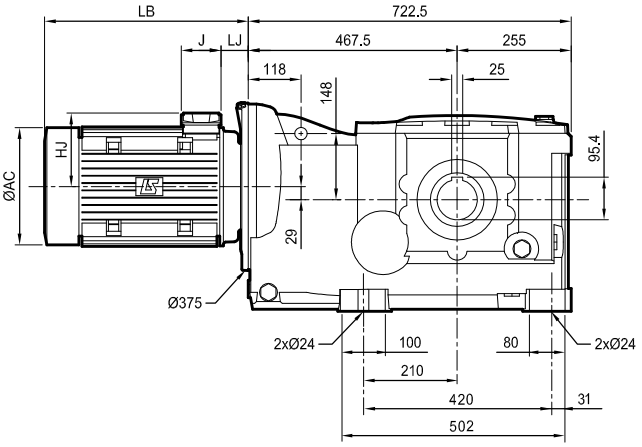
Dimensions
Ot 3733 - Integral mounting MI

Dimensions in millimetres

- Foot mounted form S, cylindrical hollow shaft H

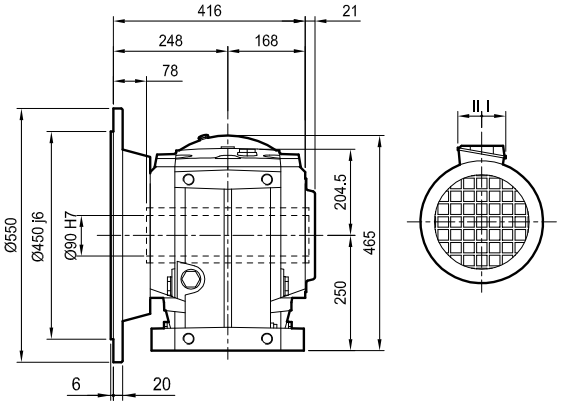
Ot: 292 kg
+ mot

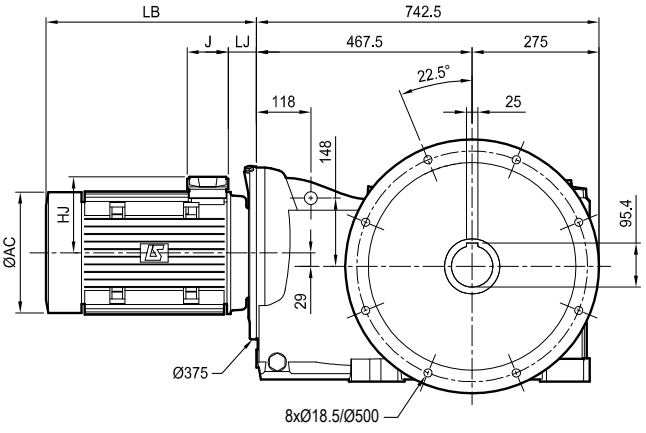




- Flange form BS L*, cylindrical hollow shaft H

Ot: 328 kg
+ mot





** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 90 SL	190	135	87	272	53	43	43	16.2
LSES 90 LU	190	135	87	303.5	53	43	43	20.4
LSES 100 L	200	140	87	317.5	54	43	43	22.6
LSES 100 LR	200	140	87	336.5	54	43	43	25.8
LSES 100 LG	235	149	87	332.5	53	43	43	31
LSES 112 MU	235	149	87	350.5	53	43	43	37
LSES 132 SM	272	190	126	419	51	63	63	52
LSES 132 MU	272	190	126	446	51	63	63	62.6
LSES 160 MR	272	190	126	489	52.5	63	63	77.8
LSES 160 M	312	235	135	490	37.8	88	64	93
LSES 160 LUR	312	235	135	505	37.8	88	64	100
LSES 180 M	350	256	186	547	58.8	112	98	130
LSES 180 LUR	350	256	186	609	58.8	112	98	155
LSES 200 LU	390	276	186	674	82	112	98	225
LSES 225 SR	390	310	231	674	72.5	119	142	236
LSES 225 MG	479	405	292	825	83.5	151	181	318
LSES 250 ME	479	405	292	825	83.5	151	181	350

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 90 SL	***FFB 2***	*190*	*151*	*160*	*417*	*41*	*55*	*55*	*18.2*
LSES 90 SL	**FFB 2**	190	151	160	417	41	55	55	22.4
LS 90 L	***FFB 2***	*190*	*151*	*160*	*417*	*41*	*55*	*55*	*21*
LSES 90 LU	**FFB 2**	190	151	160	417	41	55	55	26.6
LS 100 L	***FFB 2***	*200*	*156*	*160*	*465*	*41*	*55*	*55*	*29.1*
LSES 100 L	**FFB 2**	200	156	160	465	41	55	55	29.6
LSES 100 LR	**FFB 2**	200	156	160	465	41	55	55	32
LSES 100 LG	**FFB 3**	235	165	160	441	41	55	55	37.6
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*468*	*43.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	466	41	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*491*	*42.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	630	59.5	55	55	66.5
LS 132 M	***FFB 4***	*272*	*186*	*160*	*630*	*59.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	272	186	160	665	61.5	55	55	77.1
LSES 160 MR	**FFB 4**	272	186	160	664	60.5	55	55	92.3
LS 160 MP	***FFB 5***	*272*	*186*	*160*	*664*	*60.5*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*272*	*186*	*160*	*664*	*60.5*	*55*	*55*	*96*
LSES 160 M	**FFB 5**	312	248	186	677	46.8	112	98	110
LSES 160 LUR	**FFB 5**	312	248	186	672	41	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*677*	*41*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*678*	*39*	*92*	*63*	*152*
LS 200 LT	***FCPL54-H1D[2]***	*350*	*263*	*134*	*774*	*86*	*92*	*63*	*200*
LS 225 ST	***FCPL54-H1D[2]***	*390*	*283*	*134*	*836*	*109.5*	*92*	*63*	*242*
LS 225 MR	***FCPL54-H1D[2]***	*390*	*283*	*134*	*878*	*109.5*	*92*	*63*	*274*

1. except brake motor in italics: not concerned by the IE

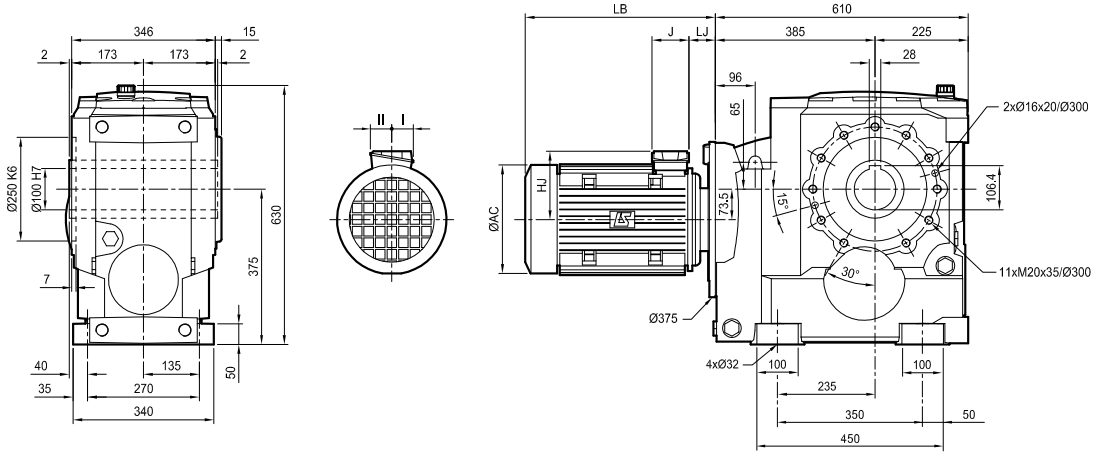
2. with CDF device

Dimensions
Ot 3833 - Integral mounting MI

Dimensions in millimetres

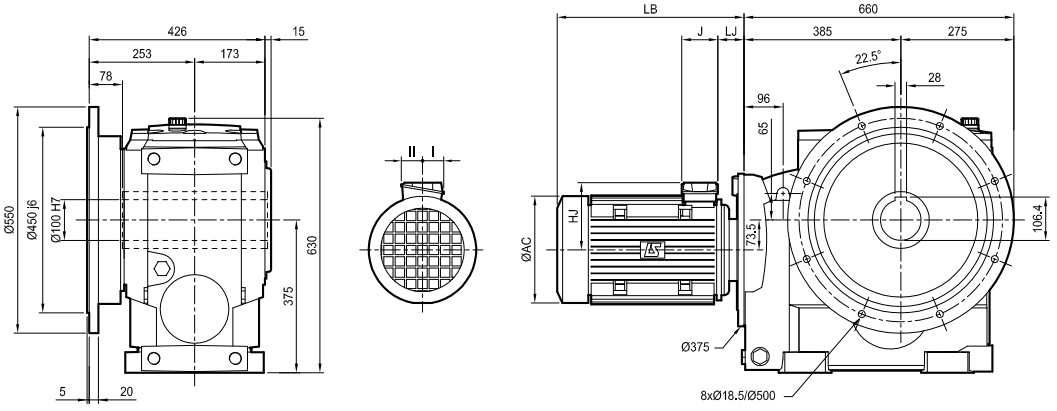
- Tapped form SBT LR, cylindrical hollow shaft H

Ot: 347 kg
+ mot



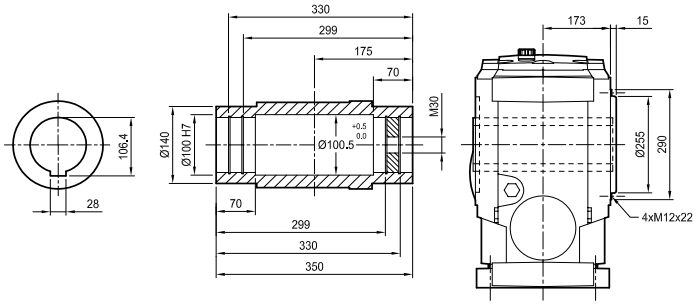
- Flange form BD L*, cylindrical hollow shaft H

Ot: 374 kg
+ mot



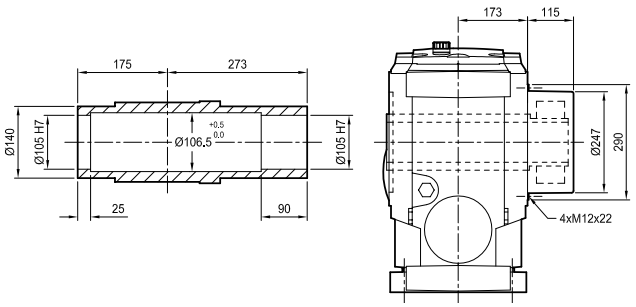
** option on right BDR H: identical flange and shaft*

- Hollow shaft details H



Keying on driven shaft: according to NF E22-175

- Option: shrink disc on the right SDR*



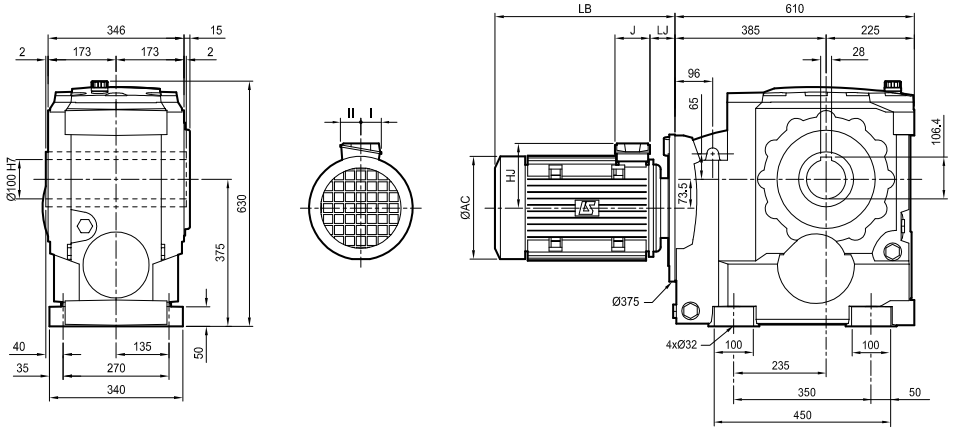
** left SDL*

Dimensions
Ot 3833 - Integral mounting MI

Dimensions in millimetres

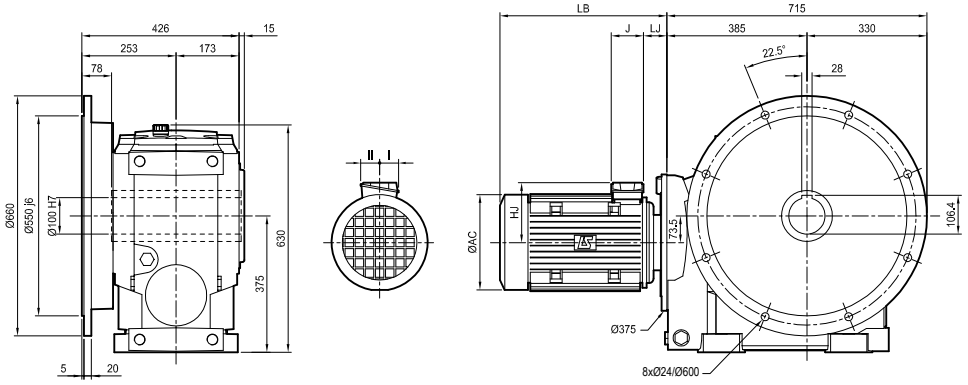
- Foot mounted form S, cylindrical hollow shaft H

Ot: 350 kg
+ mot



- Flange form BS L*, cylindrical hollow shaft H

Ot: 408 kg
+ mot



** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 112 MU	235	149	87	349.5	53.5	43	43	34.4
LSES 132 SM	272	190	126	419	51	63	63	52
LSES 132 MU	272	190	126	433	38	63	63	62.6
LSES 160 MR	272	190	126	476	40	63	63	77.8
LSES 160 M	312	235	135	477	27	92	63	93
LSES 160 LUR	312	235	135	492	26	92	63	100
LSES 180 M	350	256	186	534	46	112	98	130
LSES 180 LUR	350	256	186	596	46	112	98	155
LSES 200 LU	390	276	186	661.5	69.5	112	98	225
LSES 225 SR	390	310	231	674.5	59.5	119	142	236
LSES 225 MG	479	405	292	812	70.5	151	181	318
LSES 250 ME	479	405	292	812	70.5	151	181	350
LSES 280 SD	479	405	292	872	70.5	151	181	428
LSES 280 MD	479	405	292	872	70.5	151	181	470

Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 112 MG	***FFB 3***	*235*	*165*	*160*	*468*	*43.5*	*55*	*55*	*37.6*
LSES 112 MU	**FFB 3**	235	165	160	465.5	41	55	55	40.9
LS 132 S	***FFB 3***	*227*	*168*	*160*	*491*	*42.5*	*55*	*55*	*44.6*
LSES 132 SM	**FFB 4**	272	186	160	630	59.5	55	55	66.5
LS 132 M	***FFB 4***	*265*	*186*	*160*	*617*	*46.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	265	186	160	617	46.5	55	55	77.1
LSES 160 MR	**FFB 4**	264	186	160	651	47.5	55	55	92.3
LS 160 MP	***FFB 5***	*264*	*186*	*160*	*651*	*47.5*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*265*	*186*	*160*	*651*	*47.5*	*55*	*55*	*96.1*
LSES 160 M	**FFB 5**	312	248	186	677	29	112	98	110
LSES 160 LUR	**FFB 5**	312	248	186	672	28	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*677*	*28*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*665*	*26*	*92*	*63*	*152*
LS 200 LT	***FCPL54-H1D[2]***	*350*	*263*	*134*	*761*	*73*	*92*	*63*	*200*
LS 225 ST	***FCPL54-H1D[2]***	*390*	*283*	*134*	*823*	*96.5*	*92*	*63*	*242*
LS 225 MR	***FCPL54-H1D[2]***	*390*	*283*	*134*	*878*	*109.5*	*92*	*63*	*274*

1. except brake motor in italics: not concerned by the IE

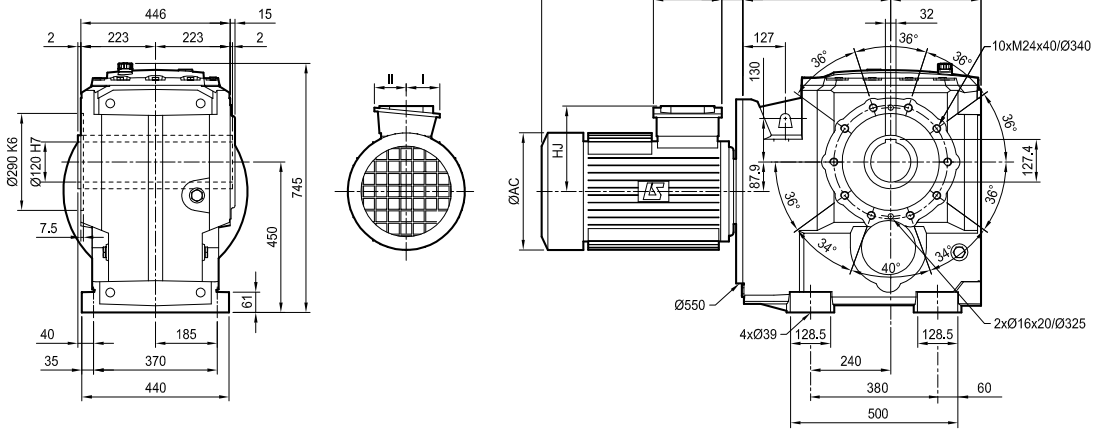
2. with CDF device

Dimensions
Ot 3933 - Integral mounting MI

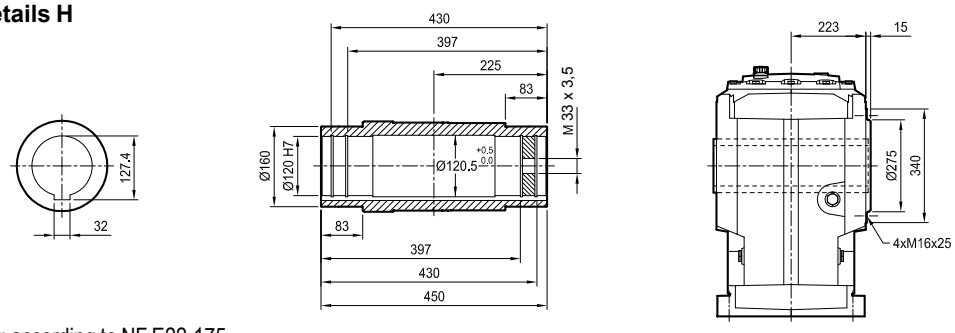
Dimensions in millimetres

- Tapped form SBT LR, cylindrical hollow shaft H

Ot: 565 kg
+ mot

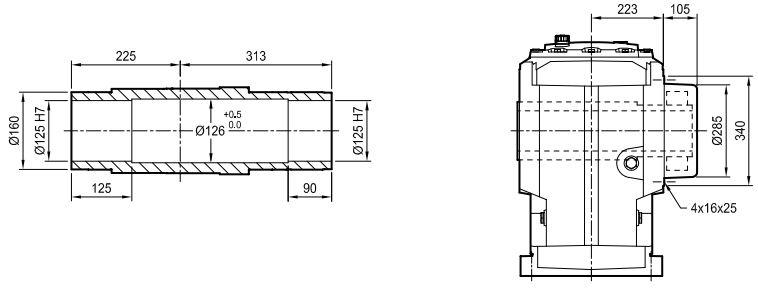


- Hollow shaft details H



Keying on driven shaft: according to NF E22-175

- Option: shrink disc on the right SDR*



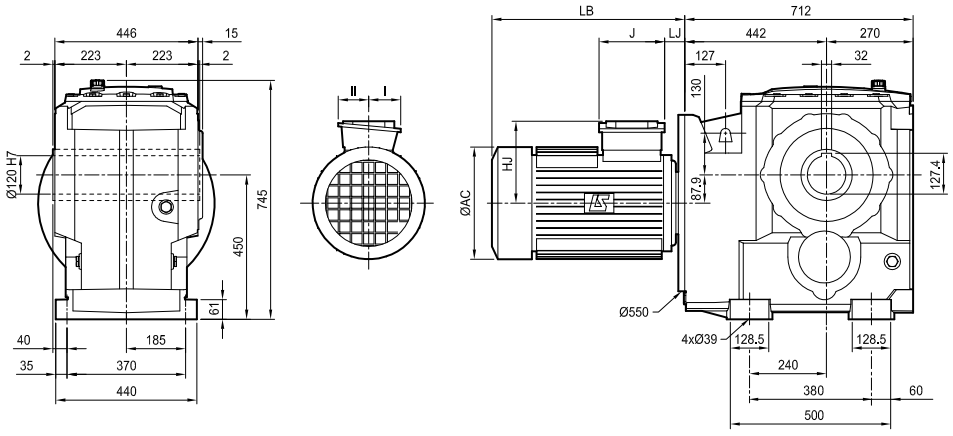
** left SDL*

Dimensions
Ot 3933 - Integral mounting MI

Dimensions in millimetres

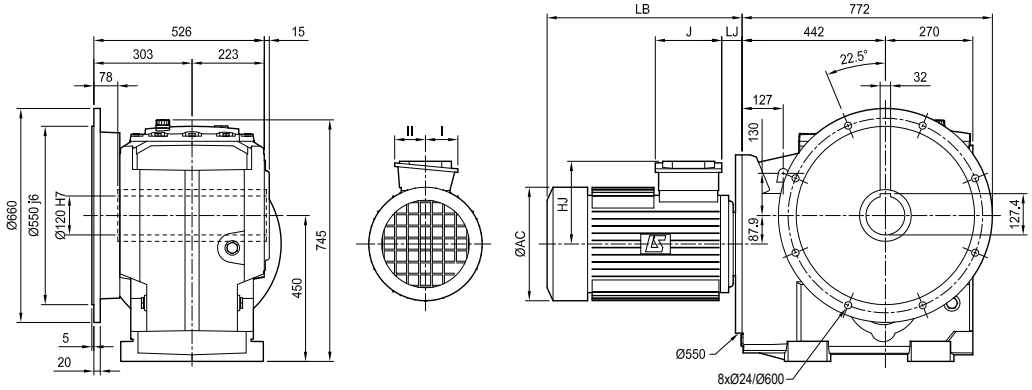
- Foot mounted form S, cylindrical hollow shaft H

Ot: 570 kg
+ mot



- Flange form BS L*, cylindrical hollow shaft H

Ot: 648 kg
+ mot



** option on right BSR H: identical flange and shaft*

Motor type	IMfinity® three-phase 4-pole motors							kg
	AC	HJ	J	LB	LJ	I	II	
LSES 132 MU	272	190	126	433	38	63	63	62.6
LSES 160 MR	272	190	126	476	40	63	63	77.8
LSES 160 M	312	235	135	477	27	92	63	93
LSES 160 LUR	312	235	135	492	26	92	63	100
LSES 180 M	350	256	186	534	46	112	98	130
LSES 180 LUR	350	256	186	596	46	112	98	155
LSES 200 LU	390	276	186	661.5	69.5	112	98	225
LSES 225 SR	390	310	231	674,5	59.5	119	142	236
LSES 225 MG	479	405	292	812	70.5	151	181	318
LSES 250 ME	479	405	292	812	70.5	151	181	350
LSES 280 SD	479	405	292	872	70.5	151	181	428
LSES 280 MD	479	405	292	872	70.5	151	181	470

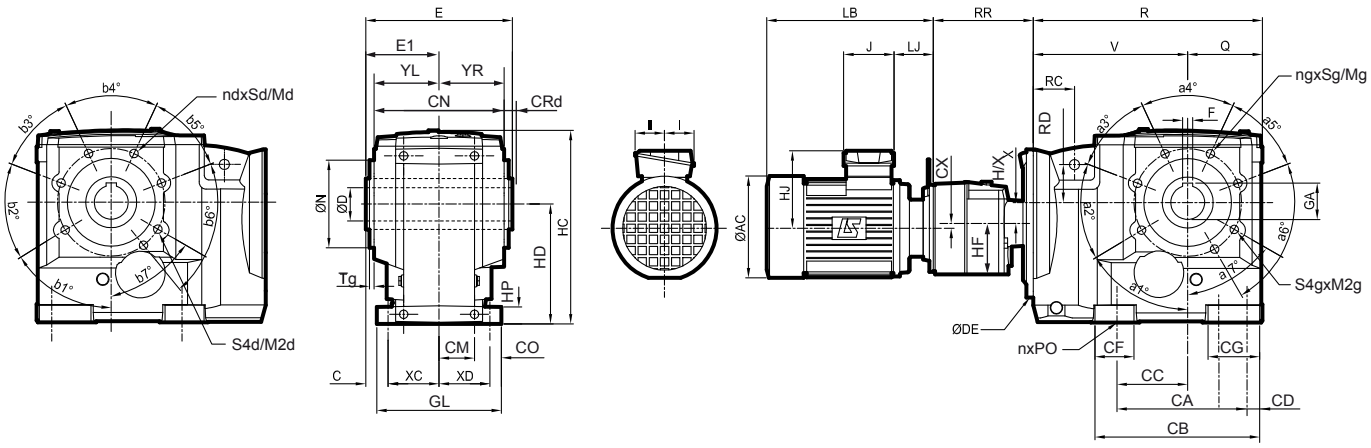
Motor type	Brake type	IMfinity® three-phase 4-pole motors and brake[1]							kg
		AC	HJ	J	LB	LJ	I	II	
LS 132 M	***FFB 4***	*265*	*186*	*160*	*617*	*46.5*	*55*	*55*	*67.4*
LSES 132 MU	**FFB 4**	265	186	160	617	46.5	55	55	77.1
LSES 160 MR	**FFB 4**	264	186	160	651	47.5	55	55	92.3
LS 160 MP	***FFB 5***	*264*	*186*	*160*	*651*	*47.5*	*55*	*55*	*82.9*
LS 160 LR	***FFB 5***	*265*	*186*	*160*	*651*	*47.5*	*55*	*55*	*96.1*
LSES 160 M	**FFB 5**	312	248	186	665	29	112	98	110
LSES 160 LUR	**FFB 5**	312	248	186	659	28	112	98	117
LS 180 MT	***FFB 5***	*312*	*248*	*186*	*665*	*28*	*112*	*98*	*117*
LS 180 LR	***FCPL54-H1D***	*312*	*235*	*134*	*665*	*26*	*92*	*63*	*152*
LS 200 LT	***FCPL54-H1D[2]***	*350*	*263*	*134*	*761*	*73*	*92*	*63*	*200*
LS 225 ST	***FCPL54-H1D[2]***	*390*	*283*	*134*	*823*	*96.5*	*92*	*63*	*242*
LS 225 MR	***FCPL54-H1D[2]***	*390*	*283*	*134*	*865*	*96.5*	*92*	*63*	*274*

1. except brake motor in italics: not concerned by the IE
2. with CDF device

Dimensions
Combined Ot

Dimensions in millimetres

- Tapped form SBT LR, cylindrical hollow shaft H



Ot	i	Orthobloc SBTLR H																	Side L					kg
		a1°	a2°	a3°	a4°	a5°	a6°	a7°	a8°	a9°	a10°	a11°	b1°	b2°	b3°	b4°	b5°	b6°	b7°...	details	ngxSg	ØMg	S4g	ØM2g	
Ot 3935	194->17,900	20	34	36	36	36	36	36	36	36	34	-	1	1	1	1	1	1	1	p126	10M24x40	340	2x16x20	325	620
Ot 3835	171->18,505	30	30	30	30	30	30	30	30	30	30	30	1	1	1	1	1	1	1	p124	11M20x35	300	2x16x20	300	366
Ot 3735	187->19,441	36	36	36	36	36	36	36	36	36	-	-	1	1	1	1	1	1	1	p122	9M20x35	230	16x20	230	308
Ot 3635	174->18,805	70	35	40	35	35	40	35	70	-	-	-	1	1	1	1	1	1	1	p120	6M16x27	230	16x20	220	205
Ot 3535	174->17,300	59	52	44	50	44	51	-	-	-	-	-	1	1	1	1	1	1	-	p118	6M16x27	190	10.2x30	190	93
Ot 3435	183->17,500	65	46	44	50	44	51	30	-	-	-	-	10	55	46	44	50	44	51	p116	6M12x22	152	10.2x27	152	71
Ot 3335	178-20,000	65	48	44	46	44	67	-	-	-	-	-	45	20	48	44	46	44	-	p114	6M12x22	123	10.2x27	123	49
Ot 3235	178->617	65	48	44	46	50	42	-	-	-	-	-	65	48	44	46	50	42	-	p112	6M10x22	100	8x20	102	27
Ot 3235	718->19,800	65	48	44	46	50	42	-	-	-	-	-	65	48	44	46	50	42	-	p112	6M10x22	100	8x20	102	26

1. Left and right SBTLR: identical flange and shaft

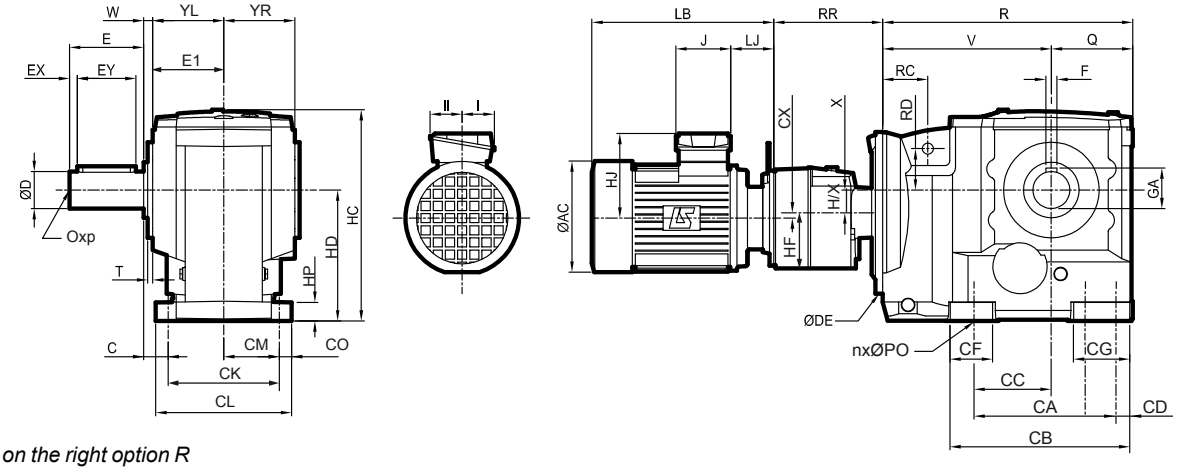
Ot	i	Side R					Shaft H			
		ndxSd	ØMd	S4d	ØM2d	CA to YG details	ØD	E	F	GA
Ot 3935	194->17,900	10M24x40	340	2x16x20	325	o/ page 126	120H7	430	32	127.4
Ot 3835	171->18,505	11M20x35	300	2x16x20	300	o/ page 124	100H7	350	28	106.4
Ot 3735	187->19,441	9M20x35	230	16x20	230	o/ page 122	90H7	340	25	95
Ot 3635	174->18,505	6M16x27	230	16x20	220	o/ page 120	70H7	310	20	75
Ot 3535	174->17,300	6M16x27	190	10.2x30	190	o/ page 118	60H7	244	18	64
Ot 3435	183->17,500	6M12x22	152	10.2x27	152	o/ page 116	50H7	226	14	54
Ot 3335	178->20,000	6M12x22	123	10.2x27	123	o/ page 114	40H7	173	12	43
Ot 3235	178->617	6M10x22	100	8x20	102	o/ page 110	35H7	151	10	38
Ot 3235	718->19,800	6M10x22	100	8x20	102	o/ page 112	35H7	151	10	38

Ot	LS(ES)	IMfinity® three-phase 4-pole							kg	IMfinity® three-phase 4-pole and brake FFB							kg
		AC	HJ	J	LB	LJ	I	II		AC	HJ	J	LB	LJ	I	II	
Ot 3935		o/ page 99								o/ page 99							
Ot 3835		o/ page 95								o/ page 95							
Ot 3735		o/ page 95								o/ page 95							
Ot 3635		o/ page 95								o/ page 95							
Ot 3535		o/ page 93								o/ page 93							
Ot 3435		o/ page 93								o/ page 93							
Ot 3335	71	140	109	87	208	37	43.5	46.5	8.3	140	130	160	296	23.5	55	55	11.3
Ot 3235	80	190	135	87	288	67.5	43.5	43.5	14.1	190	151	160	430	49.5	55	55	17.1

Dimensions
Combined Ot

Dimensions in millimetres

- Foot mounted form S, slow shaft on left L[1]



1. Shaft on the right option R

		Orthobloc S																										
Ot	**i**	**C**	**CA**	**CB**	**CC**	**CD**	**CF**	**CG**	**CK**	**CL**	**CM**	**CO**	**CX**	**DE[1]**	**E1**	**HC**	**HD**	**HF**	**HP**	**HX**	**nxPO**	**R**	**RC**	**RD**	**RR**	**V**	**YL[1]**	**YR[1]**	**kg**
Ot 3935	194->17,900	77	380	500	240	65	129	129	370	440	185	35	26	550	262	745	450	154	61	87.9	4x39	712	127	130	229	442	260	263	703
Ot 3835	171->18,505	70	350	450	235	50	100	100	270	340	135	35	10	375	205	630	375	105	50	73.5	4x32	610	96	65	178	385	203	205	396.7
Ot 3735	187->19,441	35	420	502	210	31	100	80	270	330	135	30	10	375	170	465	250	105	48	29	4x24	723	118	148	178	468	168	168	324.7
Ot 3635	174->18,505	35	355	406	178	23	80	95	240	290	120	25	10	375	155	413	225	105	39.5	0	4x22	587	120	98	178	365	153	153	216.7
Ot 3535	174->17,300	32	180/230	293	125	23	71	92	180	220	90	20	8.5	262	122	346	212	81.5	30	37	6x22	405	73	67	174	273	112.5	112.5	96.4
Ot 3435	183->17,500	30	150/190	245	110	25	57	82	165	200	82.5	17.5	8.5	225	112.5	306	180	81.5	27	30	6x18	350	59	60	174	236	104	104	73.4
Ot 3335	178->253	16.5	120/150	206	90	22	62	67	140	168	70	14	8.5	184	86.5	245	140	81.5	21.5	7	6x14	305	65	50	174	215	85	85	51.4
Ot 3335	283->6,200	16.5	120/150	206	90	22	62	67	140	168	70	14	-7	184	86.5	245	140	70	21.5	7	6x14	305	65	50	107	215	85	85	42.7
Ot 3335	7,010-20,000	16.5	120/150	206	90	22	62	67	140	168	70	14	-7	184	86.5	245	140	70	21.5	7	6x14	305	65	50	127	215	85	85	43
Ot 3235	178->617	14.5	130/150	185	95	14	46	50	120	145	60	12.5	-7	154	74.5	205	112	70	18.5	16	6x11	255	58	35	113	178	72.5	72.5	26.7
Ot 3235	718->19,800	14.5	130/150	185	95	14	46	50	120	145	60	12.5	-7	154	74.5	205	112	70	18.5	16	6x11	255	77	35	133	178	72.5	72.5	25.5

1. DE/2 can be > YL; YR

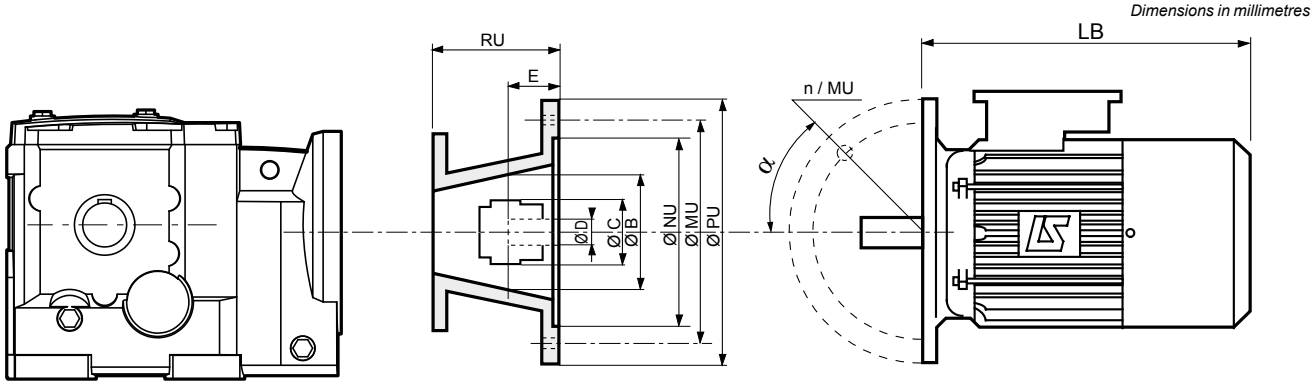
		Shaft L[1]							
Ot	**i**	**D**	**E**	**EX**	**EY**	**F**	**GA**	**O**	**p**
Ot 3935	194->17,900	120m6	210	14	170	32	127	M24	45
Ot 3835	171->18,505	110m6	210	15	180	28	116	M24	50
Ot 3735	187->19,441	90m6	170	13	140	25	95	M24	50
Ot 3635	174->18,505	70m6	140	10	115	20	74.5	M20	42
Ot 3535	174->17,300	60m6	120	5	110	18	64	M20	42
Ot 3435	183->17,500	50k6	100	5	90	14	53.5	M16	36
Ot 3335	178->20,000	40k6	80	4	70	12	43	M16	36
Ot 3235	4780->19,800	30j6	60	3.5	50	8	33	M10	22

1. Shaft on the right option R

		IMfinity® three-phase 4-pole								IMfinity® three-phase 4-pole and brake FFB							
Ot	**LS(ES)**	**AC**	**HJ**	**J**	**LB**	**LJ**	**I**	**II**	**kg**	**AC**	**HJ**	**J**	**LB**	**LJ**	**I**	**II**	**kg**
Ot 3935		o/ page 107								o/ page 107							
Ot 3835		o/ page 103								o/ page 103							
Ot 3735		o/ page 103								o/ page 103							
Ot 3635		o/ page 103								o/ page 103							
Ot 3535		o/ page 101								o/ page 101							
Ot 3435		o/ page 101								o/ page 101							
Ot 3335	71	140	109	87	208	37	43.5	46.5	8.3	140	130	160	296	23.5	55	55	11.3
Ot 3235	80	190	135	87	288	67.5	43.5	43.5	14.1	190	151	160	430	49.5	55	55	17.1

Dimensions
Ot - Universal mounting MU

Dimensions in millimetres



Type	LS, LSES IM 3001 (IM B5) IEC									U-mounts																				
										Ot 31--		Ot 32--		Ot 33--		Ot 34--		Ot 35--		Ot 36--		Ot 37--		Ot 38--		Ot 39--	
	ØD	E	LB	LB FFB/FCPL	ØMU	ØNU	ØPU	n	α°	ØC	RU	ØC	RU	ØC	RU	ØC	RU	ØC	RU	ØC	RU	ØC	RU	ØC	RU	ØC	RU	ØC	RU
LS(ES) 71 M	14j6	30	186	286	FF130	110	160	4	45	65	122	65	122	65	122	65	122	65	122	-	-	-	-	-	-	-	-	-	-
LS(ES) 71 L	14j6	30	186	296	FF130	110	160	4	45	65	122	65	122	65	122	65	122	65	122	-	-	-	-	-	-	-	-	-	-
LS 80 L	19j6	40	-	312	FF165	130	200	4	45	65	130	65	130	65	130	65	126	65	130	-	-	-	-	-	-	-	-	-	-
LSES 80 LG	19j6	40	265	409	FF165	130	200	4	45	65	130	65	130	65	130	65	126	65	130	-	-	-	-	-	-	-	-	-	-
LS 90 SL	24j6	50	-	409	FF165	130	200	4	45	65	130	65	130	65	130	65	126	65	130	-	-	-	-	-	-	-	-	-	-
LSES 90 SL	24j6	50	265	409	FF165	130	200	4	45	65	130	65	130	65	130	65	126	65	130	-	-	-	-	-	-	-	-	-	-
LS 90 L	24j6	50	-	409	FF165	130	200	4	45	65	130	65	130	65	130	65	126	65	130	-	-	-	-	-	-	-	-	-	-
LSES 90 LU	24j6	50	296	409	FF165	130	200	4	45	65	130	65	130	65	130	65	126	65	130	-	-	-	-	-	-	-	-	-	-
LS 100 L	28j6	60	-	437	FF215	180	250	4	45	65	144	65	144	65	140	65	140	65	144	65	148	65	148	65	148	65	136		
LSES 100 L	28j6	60	290	437	FF215	180	250	4	45	65	144	65	144	65	140	65	140	65	144	65	148	65	148	65	148	65	136		
LSES 100 LR	28j6	60	309	437	FF215	180	250	4	45	65	144	65	144	65	140	65	140	65	144	65	148	65	148	65	148	65	136		
LSES 100 LG	28j6	60	315	423	FF215	180	250	4	45	65	144	65	144	65	140	65	140	65	144	65	148	65	148	65	148	65	136		
LS 112 MG	28j6	60	-	448	FF215	180	250	4	45	65	144	65	144	65	144	65	140	65	144	65	148	65	148	65	148	65	136		
LSES 112 MU	28j6	60	332	448	FF215	180	250	4	45	65	144	65	144	65	144	65	140	65	144	65	148	65	148	65	148	65	136		
LS 132 S	38k6	80	-	490	FF265	230	300	4	45	-	-	-	-	-	-	65	162	62	169	65	167	65	167	65	167	65	156		
LSES 132 SM	38k6	80	385	621	FF265	230	300	4	45	-	-	-	-	-	-	65	162	62	169	65	167	65	167	65	167	65	156		
LS 132 M	38k6	80	-	596	FF265	230	300	4	45	-	-	-	-	-	-	65	162	62	169	65	167	65	167	65	167	65	156		
LSES 132 MU	38k6	80	412	596	FF265	230	300	4	45	-	-	-	-	-	-	65	162	62	169	65	167	65	167	65	167	65	156		
LSES 160 MR	42k6	110	495	671	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LS 160 MP	42k6	110	-	671	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LS 160 LR	42k6	110	-	671	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LSES 160 M	42k6	110	495	682	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LSES 160 LUR	42k6	110	510	677	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LS 180 MT	48k6	110	-	668	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LS 180 LR	48k6	110	-	683	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LSES 180 M	48k6	110	552	-	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LSES 180 LUR	48k6	110	614	-	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LS 200 LT	55m6	110	-	785	FF350	300	400	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LSES 200 LU	55m6	110	669	-	FF350	300	400	4	45	-	-	-	-	-	-	-	-	95	194	95	199	95	199	95	199	95	187		
LS 225 ST	60m6	140	-	838	FF400	350	450	8	22.5	-	-	-	-	-	-	-	-	-	-	120	245	120	245	120	245	120	233		
LSES 225 SR	60m6	140	676	-	FF400	350	450	8	22.5	-	-	-	-	-	-	-	-	-	-	120	245	120	245	120	245	120	233		
LS 225 MR	60m6	140	-	880	FF400	350	450	8	22.5	-	-	-	-	-	-	-	-	-	-	120	245	120	245	120	245	120	233		
LSES 225 MG	60m6	140	810	-	FF400	350	450	8	22.5	-	-	-	-	-	-	-	-	-	-	120	245	120	245	120	245	120	233		
LS 250 ME[1]	65m6	140	-	1116	FF500	450	550	8	22.5	-	-	-	-	-	-	-	-	-	-	-	-	120	328	120	328	160	316		
LSES 250 ME[1]	65m6	140	810	-	FF500	450	550	8	22.5	-	-	-	-	-	-	-	-	-	-	-	-	120	328	120	328	160	316		
LSES 280 SD[1]	75m6	140	870	-	FF500	450	550	8	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	328	160	316		
LS 280 SC[1]	75m6	140	-	1116	FF500	450	550	8	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	328	160	316		
LS 280 MD[1]	75m6	140	-	1116	FF500	450	550	8	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	328	160	316		
LSES 280 MD[1]	75m6	140	870	-	FF500	450	550	8	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	328	160	316		
LSES 315 SP[1]	80m6	170	947	-	FF600	550	660	8	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	366		
LS 315 SP[1]	80m6	170	-	1116	FF600	550	660	8	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	366		

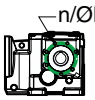
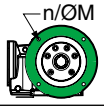
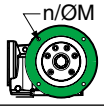
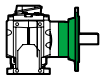
1. Motors with feet and flange (B35), horizontal mounting: motor support is recommended.

	Ot								
	Ot 31	Ot 32	Ot 33	Ot 34	Ot 35	Ot 36	Ot 37	Ot 38	Ot 39
MU max (kg)	4	4	8	14	20	75	75	75	117
LS max (kg)[1]	65	65	70	120	150	350	350	350	350

1. maximum permissible motor weight in B5

Dimensions
Synthesis

Dimensions in millimetres

Mountings			ORTHOBLOC								
			Ot 31	Ot 32	Ot 33	Ot 34	Ot 35	Ot 36	Ot 37	Ot 38	Ot 39
FEET S		L, R, LR	25j6 x 50	30j6 x 60	40k6 x 80	50k6 x 100	60m6 x 120	70m6 x 140	90m6 x 170	110m6 x 210	120m6 x 210
	Shaft	H	30H7 x 130	35H7 x 151	40H7 x 173	50H7 x 226	60H7 x 244	70H7 x 310	90H7 x 340	100H7 x 350	120H7 x 450
FLANGE SBT LR		L, R	4 x M8 x 12 M = 95 25j6 x 50	6 x M10 x 22 M = 100 30j6 x 60	6 x M12 x 22 M = 123 40k6 x 80	6 x M12 x 22 M = 152 50k6 x 100	6 x M16 x 27 M = 190 60m6 x 120	6 x M16 x 27 M = 230 70m6 x 140	9 x M20 x 35 M = 230 90m6 x 170	- -	- -
	Shaft	H	4 x M8 x 12 M = 95 30H7 x 130	6 x M10 x 22 M = 100 35H7 x 151	6 x M12 x 22 M = 123 40H7 x 173	6 x M12 x 22 M = 152 50H7 x 226	6 x M16 x 27 M = 190 60H7 x 244	6 x M16 x 27 M = 230 70H7 x 310	9 x M20 x 35 M = 230 90H7 x 340	11 x M20 x 35 M = 300 100H7 x 350	10 x M24 x 40 M = 340 120H7 x 450
FLANGE BSL[1]			4 x 9 M = 130 25j6 x 50	4 x 12 M = 215 30j6 x 60	4 x 14 M = 265 40k6 x 80	4 x 18 M = 300 50k6 x 100	4 x 18 M = 350 60m6 x 120	8 x 18.5 M = 500 70m6 x 140	8 x 18.5 M = 500 90m6 x 170	8 x 24 M = 600 110m6 x 210	8 x 24 M = 600 120m6 x 210
	Shaft L[1]										
FLANGE BSL			4 x 9 M = 130 30H7 x 130	4 x 12 M = 215 35H7 x 151	4 x 14 M = 265 40H7 x 173	4 x 18 M = 300 50H7 x 226	4 x 18 M = 350 60H7 x 244	8 x 18.5 M = 500 70H7 x 310	8 x 18.5 M = 500 90H7 x 340	8 x 24 M = 600 100H7 x 350	8 x 24 M = 600 120H7 x 450
	Shaft H										
FLANGE BDL[1]		L[1]	- -	4 x 12 M = 165 30j6 x 60	4 x 14 M = 215 40k6 x 80	4 x 14 M = 265 50k6 x 100	4 x 18 M = 300 60m6 x 120	8 x 18.5 M = 400 70m6 x 140	8 x 18.5 M = 400 90m6 x 170	8 x 18.5 M = 500 110m6 x 210	- -
	Shaft	H	- -	4 x 12 M = 165 35H7 x 151	4 x 14 M = 215 40H7 x 173	4 x 14 M = 265 50H7 x 226	4 x 18 M = 300 60H7 x 244	8 x 18.5 M = 400 70H7 x 310	8 x 18.5 M = 400 90H7 x 340	8 x 18.5 M = 500 100H7 x 350	- -
FLANGE BRR			-	-	4 x 14 M = 215 45K6 x 90	4 x 14 M = 265 55k6 x 110	4 x 18 M = 300 65m6 x 130	-	-	-	-
	Shaft R										
MU / LS		**71**	FF130 - 14x30	FF130 - 14x30	FF130 - 14x30	FF130 - 14x30	FF130 - 14x30	-	-	-	-
		80	FF165 - 19x40	FF165 - 19x40	FF165 - 19x40	FF165 - 19x40	FF165 - 19x40	-	-	-	-
		90	FF165 - 24x50	FF165 - 24x50	FF165 - 24x50	FF165 - 24x50	FF165 - 24x50	-	-	-	-
		100-112	FF215 - 28x60	FF215 - 28x60	FF215 - 28x60	FF215 - 28x60	FF215 - 28x60	FF215 - 28x60	FF215 - 28x60	FF215 - 28x60	FF215 - 28x60
		132	-	-	-	FF265 - 38x80	FF265 - 38x80	FF265 - 38x80	FF265 - 38x80	FF265 - 38x80	FF265 - 38x80
		160	-	-	-	-	FF300 - 42x110	FF300 - 42x110	FF300 - 42x110	FF300 - 42x110	FF300 - 42x110
		180	-	-	-	-	FF300 - 48x110	FF300 - 48x110	FF300 - 48x110	FF300 - 48x110	FF300 - 48x110
		200	-	-	-	-	FF350 - 55x110	FF350 - 55x110	FF350 - 55x110	FF350 - 55x110	FF350 - 55x110
		225	-	-	-	-	-	FF400 - 60x140	FF400 - 60x140	FF400 - 60x140	FF400 - 60x140
		250	-	-	-	-	-	-	FF500 - 65x140	FF500 - 65x140	FF500 - 65x140
		280	-	-	-	-	-	-	-	FF500 - 75x140	FF500 - 75x140
		315	-	-	-	-	-	-	-	-	FF600 - 80x170

Equipment and options
Shrink disc SD

ADVANTAGE OF THE SHRINK DISC

Specially designed for assembling hollow shafts, it attaches the transmission device securely to the shaft.
The torque (***M***), radial (***F_R***) and axial forces (***F_a***) are transmitted fully without play.
There is no need to use a key, and the absence of the keyway avoids incipient cracks.
Alternating movements are possible within the limits of the torque (***M***) indicated in the technical catalogue selection tables.
The absence of initial play is retained throughout the lifetime.

The tightening torque is maintained for operating temperatures from -50°C to + 250°C.

Roughness tolerance

The maximum permissible surface roughness is: ***R_z*** max = 15 µm.
The maximum permissible tolerance on the shrink disc working reach diameter = **h8**.

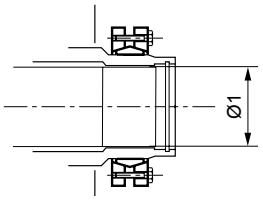
Secure positioning

While the screws are tightened, the hub does not move axially in relation to the shaft.

Characteristics of the shrink disc

The very high transmissible torque *(**M** of the shrink disc according to table below).*

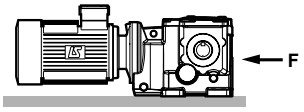
No axial movement between shaft/hub (shrink disc ***F_a***).
Takes little time to assemble.
Quick to dismantle.
The assembly and disassembly instructions are described in the appropriate manual.



Type	Shrink disc torque *M* Nm	Shaft Ø1	Fastening torque of shrink disc screws N.m	Ø shrink disc screws	Dimensions see pages
Ot 3933	31,000	125	100	12 x M12	126
Ot 3833	20,000	105	100	10 x M12	124
Ot 3733	15,000	95	59	12 x M10	122
Ot 3633	7,250	75	30	10 x M8	120
Ot 3533	6,000	62	30	7 x M8	118
Ot 3433	2,400	52	12	M6	116
Ot 3333	1,380	42	12	M6	114
Ot 3232 - 33	860	36	12	M6	110-112
Ot 3132	570	30	12	M6	108

DETERMINATION

The following elements must be specified, after the operating position:
- the fixing form and its position: they are defined page 24. With the gearbox seen from the front **F** motor at the back, operation **B3 or B5**.



- the side for fixing the shrink disc **SD** on hollow shaft:
SD R: shrink disc mounted on the right,
SD L: shrink disc mounted on the left.

The two tables below indicate the possible mountings, shrink disc and cover positions according to the fixing forms available.
In the case of flange gearbox, the shrink disc and cover remain opposite the flange.

Shrink disc and shrink disc cover on the right SD R, client shaft on the left: ● = feasibility

Type	Feet form		Flange form		
	NS SD R	**S SD R**	**SBT LR SD R**	**BS L SD R**	**BD L SD R**
Ot 39	NR	●	●	●	NR
Ot 36 - 37 - 38	NR	●	●	●	●
Ot 33 - 34 - 35	-	●	●	●	●
Ot 32	NR	●	●	●	●
Ot 31	NR	●	●	●	-

NR: not performed

Shrink disc and shrink disc cover on the left SD L, client shaft on the right: ● = feasibility

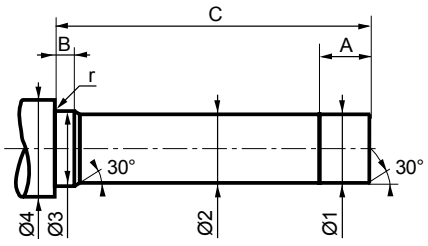
Type	Feet form		Flange form		
	NS SD L	**S SD L**	**SBT LR SD L**	**BS R SD L**	**BD R SD L**
Ot 39	NR	●	●	●	NR
Ot 36 - 37 - 38	NR	●	●	●	●
Ot 33 - 34 - 35	-	●	●	●	●
Ot 32	NR	●	●	●	●
Ot 31	NR	●	●	●	-

NR: not performed

CLIENT SHAFT FOR SHRINK DISC

Type	A min[1]	B max[1]	C max[1]	r max[1]	Ø 1	Ø 2	Ø 3h6	Ø 4[1]
Ot 3933	90	24.5	538	1	125g6	124	125	160
Ot 3833	90	24.5	448	1	105g6	104	105	140
Ot 3733	60	24.5	407	0.8	95g6	94	95	120
Ot 3633	60	24.5	370	0.8	75g6	74	75	100
Ot 3533	50	11.5	304	0.8	62g6	61	63	90
Ot 3433	45	9.5	287	0.5	52g6	51	53	65
Ot 3333	37	9.5	224	0.5	42h6	41	44	55
Ot 3232 - 33	25	7.5	186	0.8	36h6	35	37	50
Ot 3132	25	34.5	167	-	30h6	29	30	45

1. These values are given for information only.

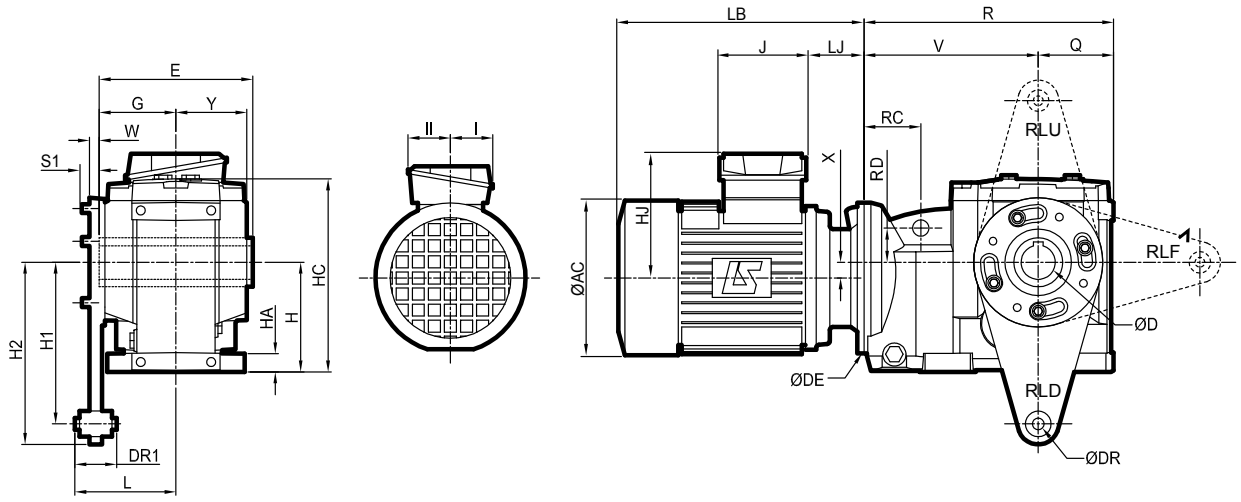


Equipment and options
Torque arm R

In the case of pendular mounting, Leroy-Somer proposes a torque arm **R**. It is fastened on the lateral face, either left R**L*** or right R**R**.

The torque arm can be turned downwards R L**D**, forward RL**F** or upwards RL**U** (except Ot 39). However, it is supplied separately, R**K** kit.

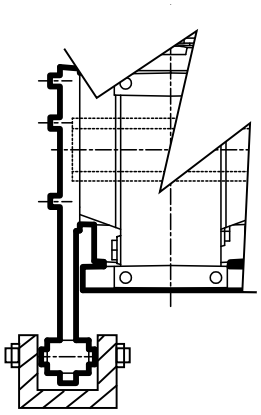
Dimensions in millimetres



Type	Torque arm R																				
	Ø D	Ø DE	Ø DR	DR1	E	G	H	H1	H2	HA	HC	L	Q	R	RC	RD	V	W	X	Y	S1
Ot 3933	120H7	550	32	116	446	223	450	700	772	61	745	305	270	712	127	130	442	32	87.9	223	16
Ot 3833	100H7	375	32	116	346	173	375	550	610	50	630	253	225	610	96	65	385	28	73.5	173	13
Ot 3733	90H7	375	24	96	340	170	250	450	496	48	465	236	255	722.5	118	148	467.5	24	-29	168	12.5
Ot 3633	70H7	375	24	96	310	155	225	350	391.5	39.5	413	215	222	587	120	98	365	18	0	153	10
Ot 3533	60H7	262	16	54	244	122	212	310	340	30	346	139.5	132	405	73	67	273	15.5	37	112.5	-
Ot 3433	50H7	225	16	54	226	113	180	250	280	27	306	128.5	114	350	59	60	236	13.5	30	103.5	-
Ot 3333	40H7	184	16	54	173	86.5	140	200	230	21.5	245	110	90	305	65	50	215	21.5	7	85	-
Ot 3233	35H7	154	10	33	151	75.5	112	130	151	18.5	205	90	77	255	58	35	178	13	16	72.5	-
Ot 3232	35H7	184	10	33	151	75.5	112	130	151	21	267	91.5	93	290	77	85	197	13	63	72.5	-
Ot 3132	30H7	154	10	33	130	65	80	130	151	15	203.5	77.5	80	245	69	66	165	11	46.5	60	-

1. RLF (on the left) or RRF (on the right) except Ot39

Pendular mounting by torque point.
We recommend mounting with flexible joint supplied, as per diagram.



Equipment and options

DRIVEN SHAFT

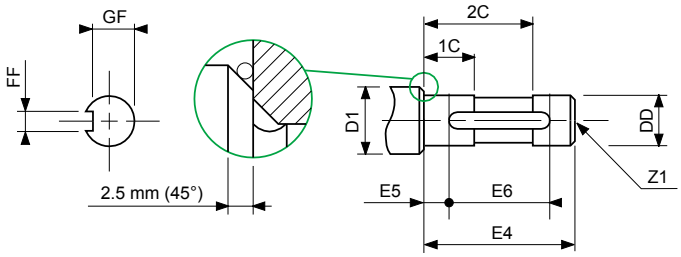
Whether with S feet, BS or BD smooth hole flange, we provide below for information the values for producing a driven shaft (steel recommended: C45E) for Ot 31 to Ot 39.

Check that the cylindrical shaft has been machined in accordance with the standard NF-E22-175, with a side fit: g6 (the hub is: H7).
Check that the key is standard and the shaft of a minimum length, tapped at the end (for screws class 8.8 according to ISO 898/1) following opposite data:

Dimensions in millimetres

Type	ØDD	Recommended drilling	Tightening moment N.m
Ot 31	30	M10	48
Ot 32, 33, 34	35, 40, 50	M16	200
Ot 35, 36	60, 70	M20	390
Ot 37, 38, 39	90, 110, 120	M24	675

Maximum clamping moment (N.m) is given with a μ coefficient of friction from 0.12 to 0.18.



	Driven shaft									
Type	1C	2C	DDg6	D1	E4	E5	E6	FF	GF	Z1
Ot 3933	120	330	120	150	390	20	350	32	109	24
Ot 3833	110	280	100	130	295	20	265	28	90	24
Ot 3733	100	275	90	120	290	20	250	25	81	24
Ot 3633	75	250	70	100	265	20	225	20	62,5	20
Ot 3533	65	179	60	65	200	15	175	18	53	20
Ot 3433	50	176	50	65	185	15	160	14	44.5	16
Ot 3333	45	133	40	55	145	15	120	12	35	16
Ot 3233	42	109	35	50	120	15	95	10	30	16
Ot 3232	42	109	35	50	120	15	95	10	30	16
Ot 3132	32	100	30	45	105	15	85	8	26	10

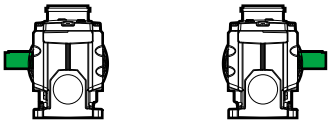
BACKSTOP AD

Gearboxes Ot 36 to 39 can be made in version gearbox with **input shaft AP with backstop option**: device allowing rotation in a single direction.

Sizes 36 to 39 are also available in version **geared motor with universal mounting U with backstop option**.

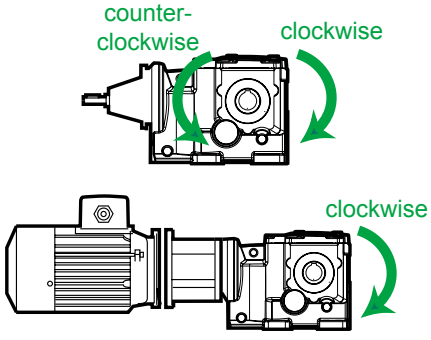
In the order, please specify:

1 - the slow shaft side used: left L (Std, by default) **or right R.**
(view facing the gearbox: face **F**, motor at the back)



L **R**

2 - direction of rotation of the output shaft: clockwise or counter-clockwise.



Output shaft direction of rotation label:

321344a
counter-clockwise

321343a
clockwise

Equipment and options

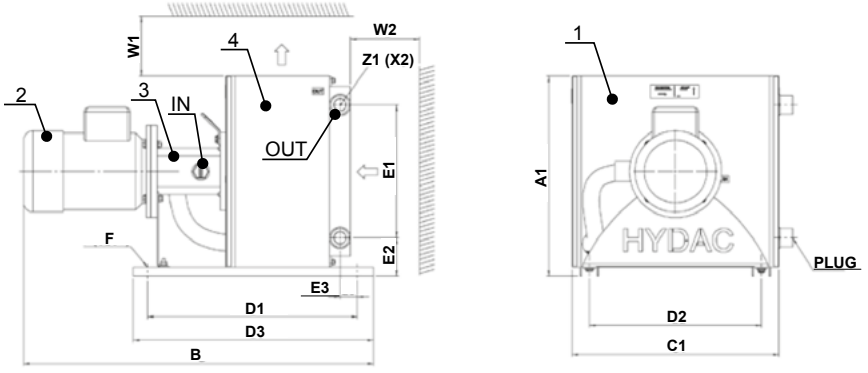
Dimensions in millimetres

HEAT EXCHANGER

The geared motor may require an external cooling system to maintain its performance. We recommend the heat exchanger below, approved by our technical services. It is composed of: a metallic housing (1), motor (2), pump (3), fan (4) with the following characteristics:

- Motor: 1.1 kW, 4p, IP 55
- Maximum dissipation: 10 kW
- Flow rate: 40l/min for 40 cSt - 4 bar
- Max oil temperature: 90°C

The cooling air flow must be free of obstacles. For the ideal air intake and discharge distance, refer to dimensions W1 and W2 (mm) in the table below.



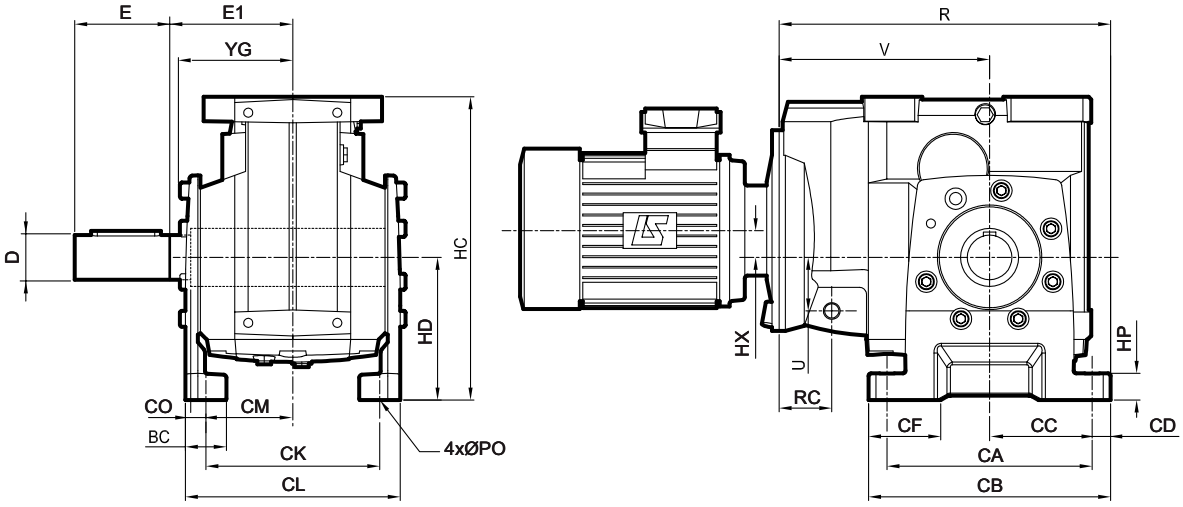
Dimensions (mm)														
A1	B	C1	D1	D2	D3	E1	E2	E3	F	W1 min	W2 min	Z1 IN	Z2 OUT	kg
433	766	449	455	373	521	288	83	37.5	9	1.000	300	G1”	G3/4”	40

Equipment and options

Dimensions in millimetres

FEET KIT ADDED

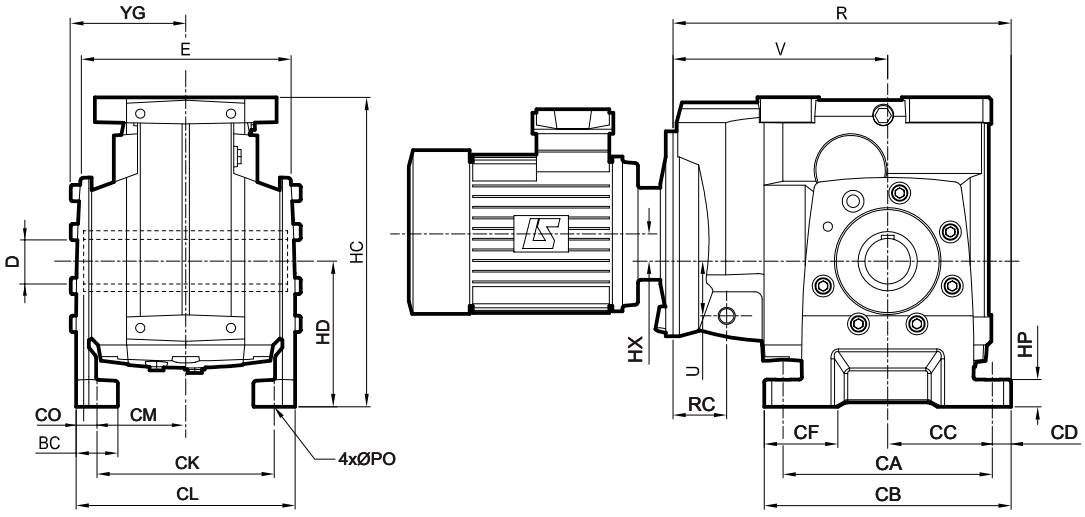
- NS form, output shaft on the left*



** option on right NS R*

Ot	Feet kit added NS, output shaft L																							kg
	BC	CA	CB	CC	CD	CF	CK	CL	CM	CO	Ø D	E	E1	HC	HD	HP	HX	PO	R	RC	U	V	YG	
Ot 3533	60	280	332	140	25	103	230	280	115	25	60	120	146.5	412	200	40	37	24	438	73	67	279	146.5	98
Ot 3433	46	230	271	115	20	81	195	241	97.5	23	50	100	131.5	340	160	30	30	18	371.5	59	60	236	128.5	70
Ot 3333	39	170	211	85	20	61	155	200	77.5	22.5	40	80	123	265	125	20	7	14	321	65	50	215	106.5	43

- NS form, cylindrical hollow shaft H

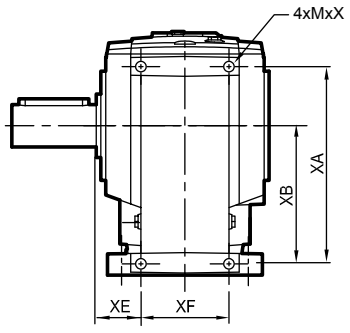


Ot	Feet kit added NS, Hollow shaft H																							kg
	BC	CA	CB	CC	CD	CF	CK	CL	CM	CO	Ø D	E	HC	HD	HP	HX	PO	R	RC	U	V	YG		
Ot 3533	60	280	332	140	25	103	230	280	115	25	60	244	412	200	40	37	24	438	73	67	279	146.5	97	
Ot 3433	46	230	271	115	20	81	195	241	97.5	23	50	226	340	160	30	30	18	371.5	59	60	236	128.5	68	
Ot 3333	39	170	211	85	20	61	155	200	77.5	22.5	40	173	265	125	20	7	14	321	65	50	215	106.5	42	

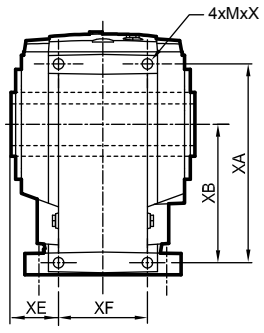
Dimensions
Versions SBT, BS, BD, BR (shaft L, R, LR, H, SD, …)

Dimensions in millimetres

- Details side F[1]



Ot with output shaft L



Ot with hollow shaft H

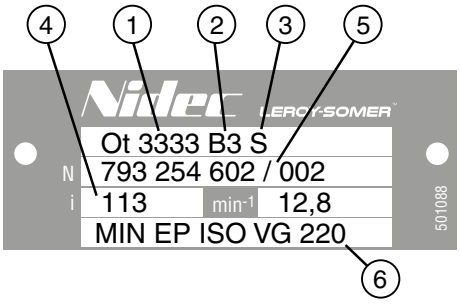
Type	Details side F, Ot output shaft L* hollow H				
	M x X	XA	XB	XE	XF
Ot 3933	M30 x 45	565	390	127	270
Ot 3833	M30 x 45	490	340	75	200
Ot 3733	M24 x 40	345	224	85	170
Ot 3633	M20 x 35	295	200	78	154
Ot 3533	M16 x 27	280	196	59.5	125
Ot 3433	M12 x 22	238	164	62.5	100
Ot 3333	M12 x 22	184	127	41.5	90
Ot 3233	M10 x 22	155	102	38.5	72
Ot 3232	M10 x 22	155	102	38.5	72
Ot 3132	9	100	50	15	100

1. Gearbox mounting forbidden by these holes (X) except in Ot 31 if applicable.
** shaft on right option R*

Identification
Gearboxes

NAMEPLATES

The nameplate identifies the motors, indicate the main performance and show compatibility of the motor concerned with the main standards and concerning them.

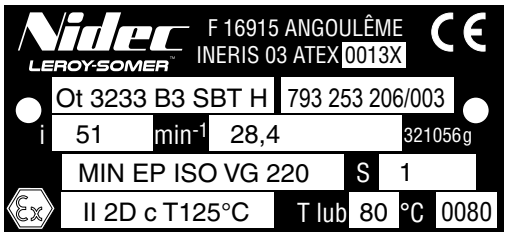


Information to be reminded in each spare parts order:

①	②	③	④	⑤	⑥	
Ot: Orthobloc gearbox **3233**: gearbox type	**B3**: operating position	**SBT**: fixing form **H**: slow shaft form	**i**: exact reduction	**No.**: serial number **N/ 001**: order number in the series	**MIN EP ISO VG**: lubrication according to ISO **220**: viscosity grade at 40°C in cSt Option: lubrication synthetic oil PAO ISO VG150	**min^{-1}**: number of revolutions per minute

Identification
ATEX gearboxes

ATEX SPECIFIC MARKING



INERIS No. 03 ATEX 0013X: Geared motor

Legal marking indicating that the equipment conforms to the requirements of European Directives

Special marking (ATEX)

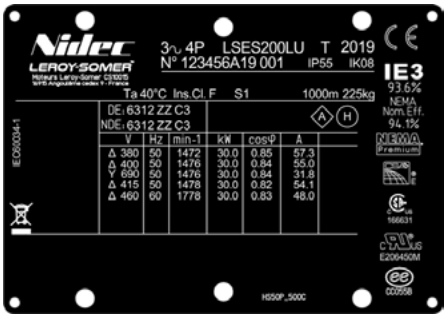
0080	**:** Identification of INERIS (Notified Body)
	: Specific marking
II 2D	**:** Group II, category 2, Conductive dusts or:
II 3D	**:** Group II, category 3, Non-conductive dusts
c	**:** Mode of protection of the gear mesh by design
T max	**:** Maximum surface temperature: e.g. 125°C
T lub: lubricant	**:** Temperature recorded during plant tests (ambient temperature 20 °C)
Certificate no.	**:** No. of the CE type certificate issued by INERIS (group II 2D)
If applicable	**: additional marking planned in the CE certificate**

Identification
LSES motor - Aluminium housing

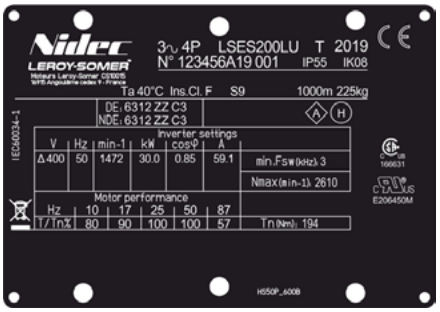
NAMEPLATES

IE3 power ≥ 7.5 kW*

Mains supply plate



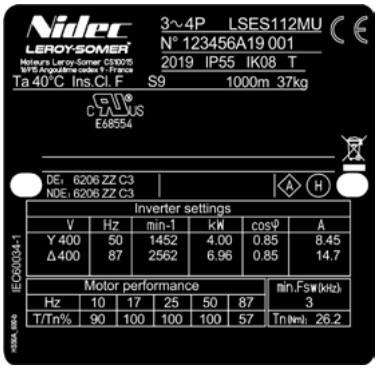
Drive supply plate



IE3 power < 7.5 kW*

Mains supply plate

Drive supply plate



* Valid only for 2 & 4 pole motors except 2P 3 kW and 4P 2.2 kW.
Aluminium 6P motors all powers and 2P 3 kW and 4P 2.2 kW are available in CSAe, ee, cCSAus, NEMA Premium version as options upon specific request.

Identification
LSES motor - Aluminium housing

Nameplates identify the equipment, indicate the main performance and show its compatibility with the main standards and regulations related to them.

DEFINITION OF NAMEPLATE SYMBOLS

CE **Legal sign that the equipment conforms to the requirements of European Directives.**

Mains supply plate:

MOT 3 ~	: Three-phase A.C. motor
LSES	: Series
200	: Frame size
LU	: Housing symbol
T	: Impregnation index

Motor no.

123456	: Motor batch number
A	: Month of production
19	: Year of production
001	: Serial number
IE3	: Efficiency class
93.6%	: Efficiency at 4/4 load

IP55 IK08	: Protection index
I cl. F	: Insulation class F
40°C	: Contractual ambient temperature for operation
S1	: Duty - Operating factor
kg	: Weight
V	: Supply voltage
Hz	: Supply frequency
min^{-1}	: Number of revolutions per minute
kW	: Rated power
cos φ	: Power factor
A	: Rated current
Δ	: Delta connection
Y	: Star connection

Bearings

DE	: Drive end bearing
NDE	: Non-drive end bearing
g	: Amount of grease at each regreasing (g)
h	: Greasing interval (hours)

POLYREX EM103: Type of grease

A : Vibration level

H : Balancing mode

Information to be reminded whenever ordering spare parts

Drive supply plate:

Inverter settings: Values necessary to set the frequency inverter
Motor performance: Torque available on the motor shaft in % rated torque at the plate frequencies
Min. Fsw (kHz): Minimum cut-off frequency acceptable for the motor
Nmax (min^{-1}): Maximum mechanical speed acceptable for the motor

Plate values provided for information only.

Identification
FFB Brake motors

NAMEPLATES

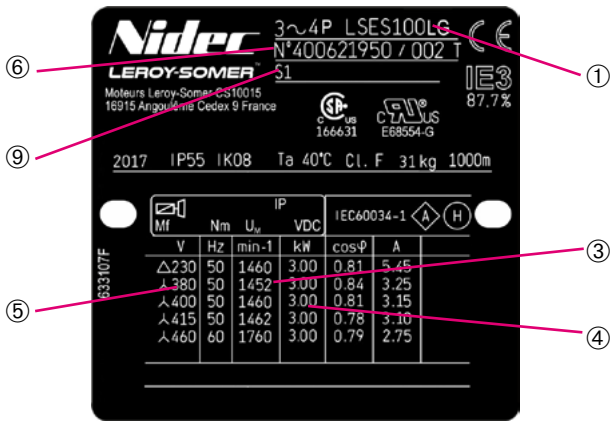
Check equipment conformity: construction shape, indications on nameplates.

Information ① to ⑫ to be reminded whenever ordering spare parts.

Other logos may be included optionally: approval is required prior to ordering.

Example: **LSES 100 LG FFB3 IFT/IE3**

MOTOR NAMEPLATE FOR FFB BRAKE



BRAKE MOTOR NAMEPLATE

Information required on nameplates:

①	Serial motor, frame size
②	Brake type FFB
③	Speed of rotation (min^{-1})
④	Rated output power (kW)
⑤	Motor voltage (V)
⑥	Motor and brake manufacturing No.
⑦	Mf: Braking torque (N.m)
⑧	U: Brake coil voltage (VDC)
⑨	Duty - Operating factor
⑩	I: Coil current (mA)
⑪	Specific marking (ATEX)
⑫	rpm: Maximum usage speed

Information to be reminded whenever ordering spare parts

Definition of the symbols

T : Impregnation class
IE3: Efficiency class
IP-- IK--: protection ratings*
Cl.F : Insulation class
(Ta) 40°C: contractual ambient temperature for operation
cos P or φ: power factor
A : Rated current
Δ : delta connection
人: star connection
Ⓐ: vibration level
Ⓗ: balancing mode

Bearings

DE: Drive end bearing
NDE: Non drive end bearing

***IK: Resistance to impacts**

The motor withstands low mechanical impacts (IK 08 as per EN 50102). **The user shall provide additional protection in case of risk of high mechanical impact.**

Marking

Definition of symbols used on nameplates

		Motor nameplate	FFB brake nameplate
CE	Legal mark of compliance of equipments with the requirements of European Directives	Frame size 71 to 180	Frame size 71 to 180
cULus	Legal mark of compliance of equipments with the USA and Canada markets	Frame size 71* to 180	-
CSA 166631	Legal mark of brake's compliance with the USA and Canada requirements	Frame size 80 to 180	Frame size 71 to 180
71* CSA	Legal mark of compliance of equipments with the USA and Canada requirements	*or optional Frame size 71	-

Identification
FCPL Brake motors

NAMEPLATES

Nameplates identify the equipment, indicate the main performance and show its compatibility with the main standards and regulations related to them.

DEFINITION OF NAMEPLATES SYMBOLS

CE Legal sign that the equipment conforms to the requirements of European Directives.

EAC Eurasian conformity

Mains supply plate:
induction motor, short-circuit rotor

LS ..... : series
180 ..... : frame size
LR ..... : housing description

Motor no.

2016 ..... : year of production
M3722D16 : motor batch number
001 ..... : Serial number
IP55 ..... : motor protection indices
22 kW ..... : rated output power
3~ 4P ..... : three-phase A.C. motor
Hz ..... : supply frequency
cos φ ..... : power factor
cl.F ..... : insulation class F
Ta ..... : 40°C, contractual ambient temperature
min^{-1} ..... : number of revolutions per minute
S3 60% ..... : duty
V ..... : supply voltage
A ..... : rated current

Brake

FCPL 54H . : type of brake
IP55 ..... : brake protection index
180 Nm ..... : braking torque
180 V ..... : brake supply voltage
0.5 A ..... : brake coil current

Marking

Definition of symbols used on nameplates

		Motor nameplate	FCPL brake nameplate
CE	Legal mark of compliance of equipments with the requirements of European Directives	Frame size 180 to 315	Frame size 180 to 315
c UL us	Legal mark of compliance of equipments with the USA and Canada markets	Frame size 180 to 315	-
UL	Mark of compliance, of final product components, with the requirements of the USA and Canada markets		optional Frame size 180 to 315 (E68554)

IK: Shock resistance

The motor can withstand a weak mechanical shock (IK 08 according to EN 50102).

The user shall provide additional protection if there is a risk of significant mechanical shock.

Information to be reminded whenever ordering spare parts

Installation

ACCEPTANCE TESTING

Check the condition of the equipment. In case of damage, either to the equipment or its packaging, record reservations with the carrier (if applicable, repairing may be excluded from the warranty).

Check that the equipment conforms to the order (construction shape, indications on nameplates)

See the leaflet reference 2557.

HANDLING

- It is mandatory to use lifting devices, fitted on equipment.

STORAGE

Store the equipment in a clean and dry location, protected from shocks, vibrations, temperature differences (between -30°C and +50°C) and in an atmosphere with a hygrometry below 80%.

Long-term storage (>1 year)

- Unless the equipment is lubricated for life, fill the gearbox completely with oil (upon commissioning, drain and top up as described in the manual of the gearbox concerned). Coat the external gasket(s) with grease.
- Enclose the unit in a sealed plastic bag (e.g. thermal glue) with a desiccant product inside.
- For manual release brake geared motors, release the brake to prevent sticking.

COMMISSIONING

The installation must be performed by skilled personnel.

- Mount the gearboxes onto rigid and flat supports free of vibration. Use screws of appropriate length and class (class 8.8 min) and tighten them at 70 % their elastic limit.
- Remove the protections from the shaft(s) and flange(s): plastic end pieces, oil or varnish (use a solvent if required, while avoiding contact with the gaskets).
- For gearboxes lubricated with oil, check the oil level or top up.
- Fit the breather plug at the upper point of the gearbox when the equipment has one.
- Lubrication: see appropriate manuals. (page 2)

Allow sufficient room around the geared motor for plugs (or expansion tank) accessibility:

200 mm: G1/4'' plug std Ot 31 to 35

500 mm: G3/4" plug with dipstick for Ot 36 to 39.

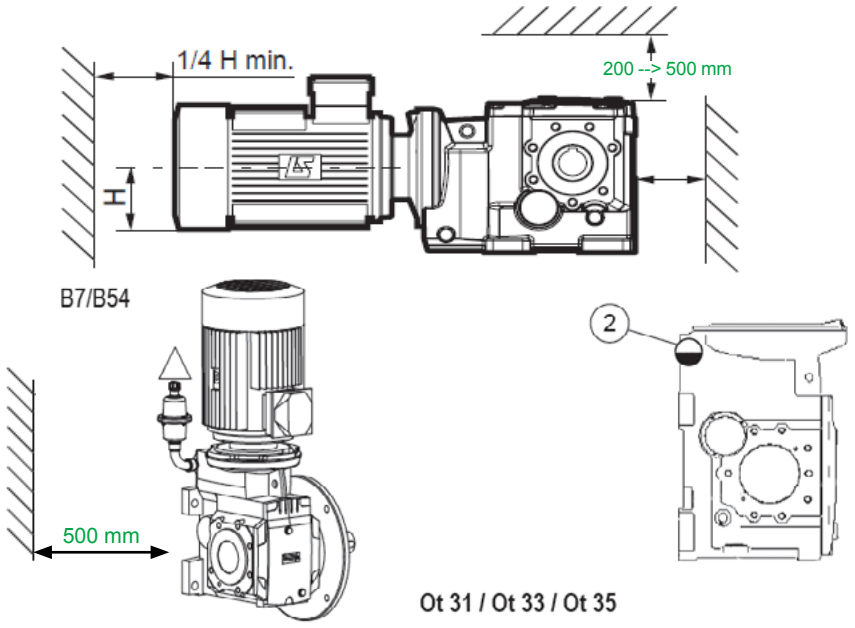
LUBRICATION

For operation in ambient temperature between -10°C and +40°C, Orthobloc series 3000 is supplied, as standard, with mineral Extreme Pressure oil type EP ISO VG 220*. Each gearbox is filled according to the operating position specified in the order. Refer to the gearbox nameplate (page 147) and installation manual reference 3996 for the quantity required for the operating position of your unit.

**option: synthetic oil PAO ISO VG 150*

Lubrication kit

Certain operating positions or a high input speed require a lubrication kit to preserve the initial performance of Ot gearboxes (manual reference 5088). In this case, allow sufficient room around the geared motor for plugs (or expansion tank) accessibility, machine stopped. (Installation manual reference 5088).



Example: Ot 31, 33, 35 in operating position B7 (foot mounted gearbox) or B54 (flange mounted gearbox).

Plugs:
◒ Level △ Breather

In the case of a selection where the output shaft does not make a complete turn, please consult us to define the most appropriate oil quantity or operating position.

A maintenance fault may cause material or bodily damage. Check regularly that the recommendations concerning mechanical and electrical installation are still complied with.

Installation

PACKAGING WEIGHT AND DIMENSIONS

Road transport (code 30) or air transport (code 40)

Cardboard boxes[1]		
Ref.	Tare	Dimensions (L x W x H)[2]
	kg	mm
P0 000	0.25	245 x 190 x 150
P0 100	0.35	256 x 222 x 165
P0 200	0.40	330 x 288 x 172
R1	0.25	330 x 145 x 200
R2	0.50	420 x 200 x 240
R3	0.65	520 x 220 x 280
R4	1.05	550 x 320 x 360
R5	0.85	580 x 260 x 280
R6	1.30	780 x 300 x 430
R7	0.75	420 x 300 x 260
R8	0.90	500 x 330 x 290
R5 Marine	0.85	580 x 260 x 280

Open pallet box or open-slat crate		
Tare	Outer dimensions (L x W x H)[2]	Inner dimensions (L x W x H)[2]
kg	mm	mm
10	720 x 420 x 550	650 x 350 x 400
26	830 x 520 x 660	760 x 450 x 500
30	990 x 570 x 620	920 x 500 x 550
47	920 x 870 x 700	850 x 800 x 550
48	990 x 870 x 880	920 x 800 x 720
45	1,270 x 870 x 700	1,200 x 800 x 550
47	1,270 x 870 x 880	1,200 x 800 x 720
61	1,270 x 1,070 x 730	1,200 x 1,000 x 550
62	1,270 x 1,070 x 900	1,200 x 1,000 x 720
64	1,270 x 1,070 x 1,050	1,200 x 1,000 x 870

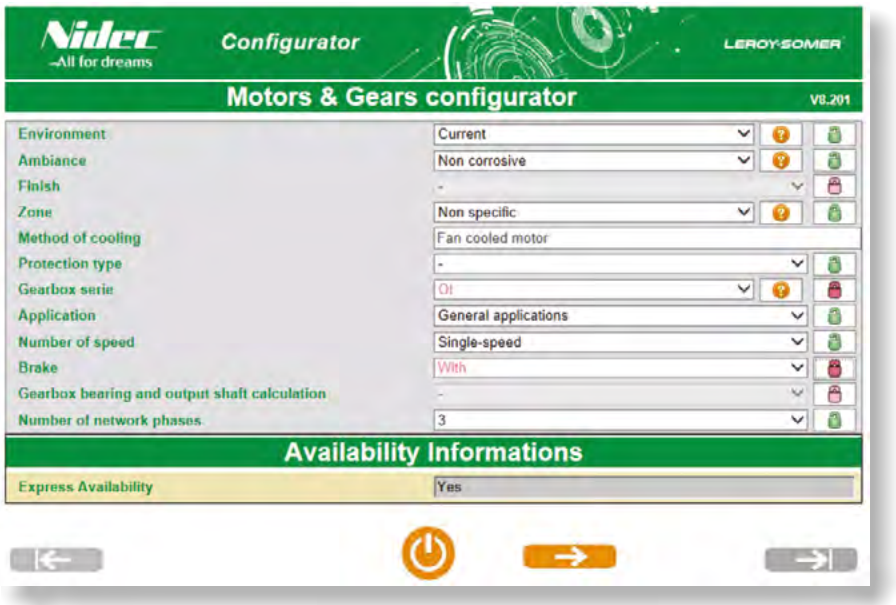
Packaging for sea transport (code 10)

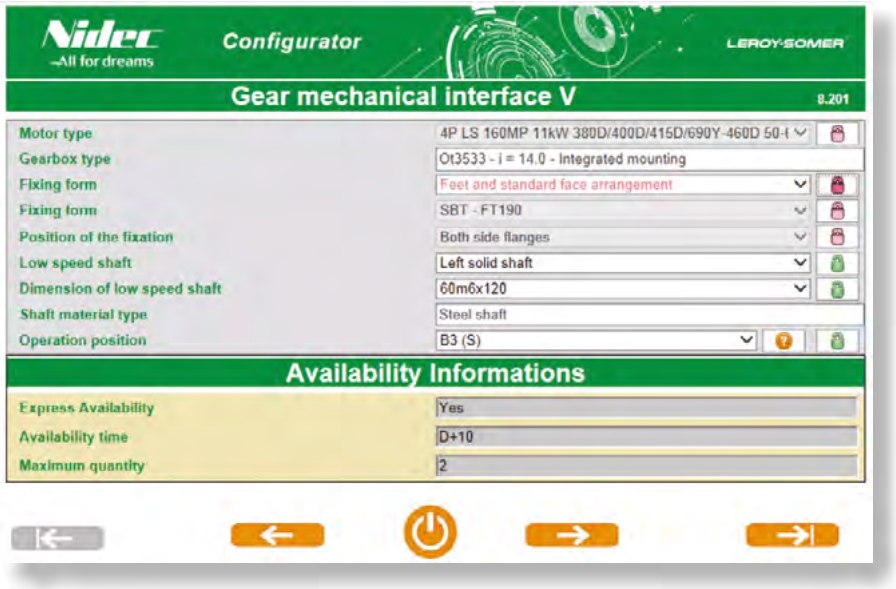
Plywood crates		
Tare	Outer dimensions (L x W x H)[2]	Inner dimensions (L x W x H)[2]
kg	mm	mm
20	740 x 480 x 730	680 x 420 x 600
26	840 x 520 x 710	760 x 440 x 530
30	980 x 560 x 720	920 x 500 x 550
58	1,120 x 750 x 850	1,040 x 680 x 670
60	1,100 x 950 x 680	1,020 x 870 x 500
80	1,100 x 950 x 1,180	1,020 x 870 x 1,000

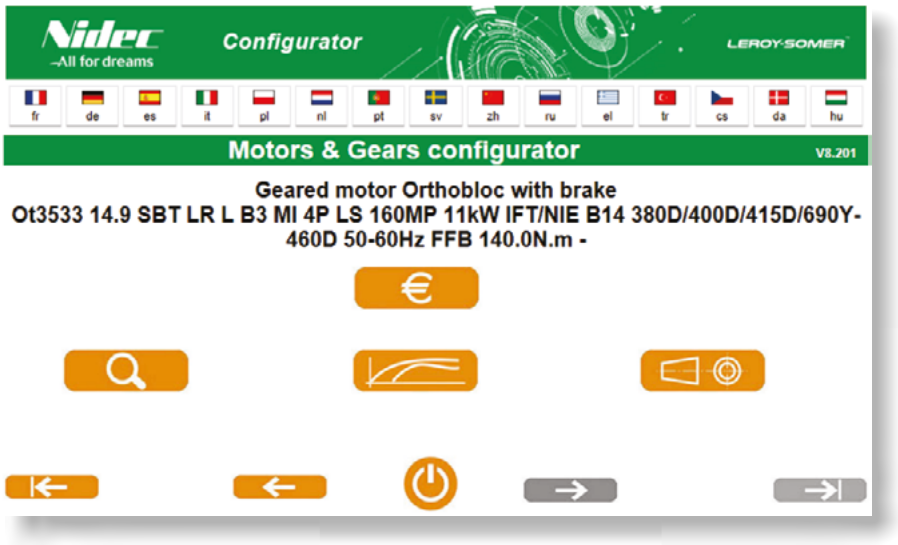
[1] maximum permissible weight: 50 kg

[2] these approximate values are given for individual packages. Packages grouped in open slat crates for quantity of machines supplied > 5, in the majority of cases.

Configurator







The Leroy-Somer configurator allows selecting the most appropriate motors and provides the corresponding technical specifications and plans.

Online registration:

http://configurateurls.leroy-somer.com/en/inscrire.php

- Product selection help
- Printing technical specifications
- Printing of 2D and 3D CAM files
- Equivalent to 300 catalogues in 15 languages.

Service for drive systems

Audit & Advice

- **Facility audit**
- **Energy optimisation**
- **Modernisation**
- **Facility management**

Installation & commissioning

- **Installation**
- **Commissioning**
- **Extended warranty**
- **Training**

Maintenance

- **Emergency services**
- **Services upon request**
- **Contracts**

MAINTENANCE

The service life of your facilities ensures continuity of your production flow and extends the lifetime of the equipment, ensuring a good return on investment.

For emergency situations, we have defined the appropriate services to offer you the solution ensuring your installations will restart promptly.

Experts close to your facilities available 24/7 monitoring proper operation of your equipment, able to define the level of intervention required according to the context, and able to intervene urgently: that is our vision of maintenance.

Unique services and support

- Proximity network with 200 service partners
- Express transport option in 24h

MONITORING CONTRACTS

Maintaining drive systems in operational condition at all times is vital for proper operation of your equipment, whether these are line production units or utilities.

Parameter monitoring programmes ensure drifts and anomalies likely to cause malfunctions are detected early.

MAINTENANCE CONTRACTS

Observing inspection intervals and changing first wear devices and parts are often complex and tedious operations because of the multiplicity of equipment present in an industrial site.

To facilitate these operations, our solutions allow managing the maintenance of drives.

DEADLINE COMMITMENT

Express Availability

- Ready to ship in 1 to 10 working days
- Motors, servomotors, geared motors, drives, options and accessries
- Limited quantity
- Access to the list of products eligible to *Express* Availability, and the appropriate conditions, directly on our Web site www.leroy-somer.com

Express Availability

Being able both to respond to urgent requests and adhere to promised customer lead times calls for a powerful logistics system.

The availability of geared motors is ensured by the network of approved partners and Leroy-Somer central services all working together.

The colour code in the "Express Availability" selection grids ensures product lead times are indicated per family, and according to the quantities ordered.

Consult Leroy-Somer.

The illustration of the delivery time below for the equipment selected page 22, i.e. D+5; D being the day the order is received by the factory before 12:00 am.

Express Availability - Geared brake motors

FMD - FFB - IFT/NIE geared brake motors (Not in any efficiency class)
Helical gears COMPABLOC, MANUBLOC, ORTHOBLOC
Standard environment

Integral mounting	MI
Universal mounting	MU

AVAILABILITY TIMES EX WORKS (FRANCE), IN WORKING DAYS

Orders received, within the maximum quantity limit, by the factory on day D before 12:00 pm Central European Time, will have the following Availability.
For products with options, availability will be that of the longest lead-time item, i.e: the product or its options.
If the order is received after 12:00 pm, 1 working day will be added to the stated lead time.
The maximum quantity is per line of order. Above this maximum quantity, please consult your Sales Office.

D	D + 1	D + 2	D + 5	D + 10	Please consult

FMD or FFB - IMfinity® NIE brake associated motors 4p IP55 Class F *(motors in italics excepted NC: Not Covered by IE Standards)*

4 poles 1500 min⁻¹

Cb, Mub, Ot + 4p LS FMD - FFB brake motor - IFT/NIE - 230 V Δ / 380 V Y / 400 V Y / 415 V Y - 460 V Y or 400 V Δ
Brakes: 180V Brake power supply - Factory set braking torque

Motor type	Brake type	Brake moment Mf [1] N.m	Mounting	Rated power P_n kW	400 V	Cb 15-	Cb 30-	Cb 31- Ot 31- Mub 31-	Cb 32- Ot 32-, 33- Mub 32-	Cb 33- Ot 34- Mub 33-	Cb 34- Ot 35- Mub 34-	Cb 35- - Mub 35-	Cb 36-* Ot 36-* Mub 36-*	Cb 37-* Ot 37-, 38-* Mub 37-*	Cb 38-* - Mub 38-*	Ot 39-
LS 56 M	*FMD*	*3*	*MI or MU*	*0.06*	Y	2	2									
LS 56 M	*FMD*	*3*	*MI or MU*	*0.09*	Y	2	2									
LS 63 M	*FMD*	*3*	*MI or MU*	*0.12*	Y	2	2									
LS 63 M	*FMD*	*3*	*MI or MU*	*0.18*	Y	2	2									
LS 71 L	*FMD*	*5*	*MI or MU*	*0.25*	Y	2	2									
LS 71 L	*FMD*	*5*	*MI or MU*	*0.37*	Y	2	2									
LS 71 L	*FMD*	*5*	*MI or MU*	*0.55*	Y											
LS 71 M	*FFB1*	*4.5*	*MI or MU*	*0.25*	Y		5	5	5	5						
LS 71 M	*FFB1*	*4.5*	*MI or MU*	*0.37*	Y		5	5	5	5						
LS 71 L	*FFB1*	*6*	*MI or MU*	*0.55*	Y		5	5	5	5						
LS 80 L	FFB1	12	MI or MU	0.75	Y		5	5	5	5	5	5				
LS 80 L	FFB1	12	MI or MU	0.9	Y		5	5	5	5	5	5				
LS 90 SL	FFB2	19	MI or MU	1.1	Y			5	5	5	5	5	2	2		
LS 90 L	FFB2	19	MI or MU	1.5	Y			5	5	5	5	5	2	2		
LS 90 L	FFB2	26	MI or MU	1.8	Y			5	5	5	5	5	2	2		
LS 100 L	FFB2	26	MI or MU	2.2	Y			5	5	5	5	5	2	2		
LS 100 L	FFB3	52	MI or MU	3	Y			5	5	5	5	5	2	2		
LS 112 MG	FFB3	52	MI or MU	4	Y				5	5	5	5	2	2		
LS 132 S	FFB3	67	MI or MU	5.5	Y				5	5	5	5	2	2		
LS 132 M	FFB4	110	MI or MU	7.5	Δ					5	5	5	2	2	2	
LS 132 M	FFB4	110	MI or MU	9	Δ						5	5	2	2	2	
LS 160 MP	FFB5	140	MI or MU	11	Δ						2	2	2	2	2	
LS 160 LR	FFB5	180	MI or MU	15	Δ						2	2	2	2	2	

ORTHOBLOC - MECHANICAL OPTIONS CORRESPONDING TO THE MOUNTING FORM AND L (left) R (right) SOLID SHAFT

Type	Ot MI forms: Feet: S L S R	Feet: S LR	Feet: SBTLR L, R	Feet: SBTLR LR	Flange mounted: NS	Flange mounted: BSL/BSR	Flange mounted: BDL/BDR	Flange mounted: BRR	Ot mounting: Universal MU	Equipment: Lubrication PAO ISO VG150	Equipment: Heat exchanger
Ot 3132	■	■		■							
Ot 3232-3233	■	■		■		■	■		■		
Ot 3333	■	■		■		■	■	■	■		
Ot 3433	■	■		■		■	■	■	■		
Ot 3533	■	■		■		■	■	■	■		
Ot 3633	■	■		■		■	■		■	■	■
Ot 3733	■	■		■		■	■		■	■	■
Ot 3833	■	■		■		■	■		■	■	■
Ot 3933	■	■		■		■	■		■	■	■

SAVING YOUR TIME

The delivery charter for products in *Express* Availability are accessible strictly through our web pages:
http://lrsm.co/dispofr (chapter 6: Gearboxes-Geared motors)

You can also scan the QR code below for direct access:

Option transport Express 24 h

Express Availability commitment

Drives, motors, geared motors and servomotors you need, when you need them

LEROY-SOMER™

Notes

Notes

LEROY-SOMER™

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Nidec

All for dreams

Moteurs Leroy-Somer SAS. Headquarters: Bd Marcellin Leroy, CS 10015, 16915 Angoulême Cedex 9, France. Share Capital: 38 679 664 €, RCS Angoulême 338 567 258.

3981 en - 2021.02 / i

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