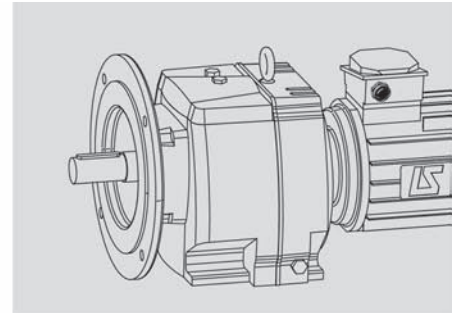
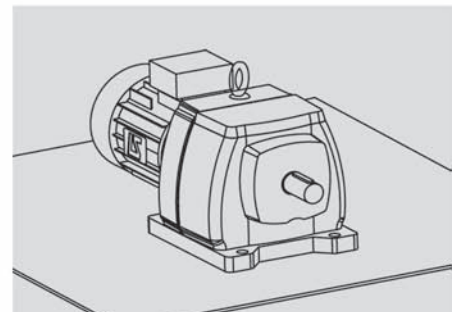
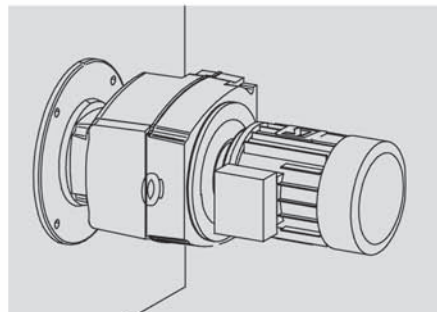
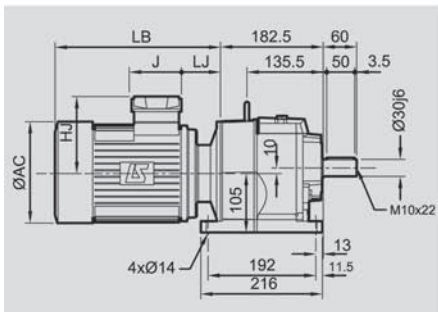




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		1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
mm-1	1	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Drive systems COMPABLOC 3000 / LS, LSES

Selection guide

4787 en - 2012.09 / b

Electromechanical products

Compabloc 3000

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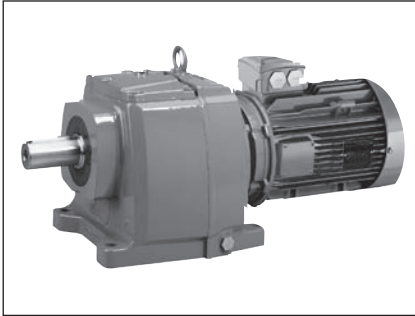
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Electromechanical products

Compabloc 3000

General



Compabloc geared motors with parallel 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 speed reducers is the rated output torque (M_{nS}) expressed in Newton-metres (N.m):

$$M_{nS} = \frac{P \times 9550}{n_S} \times \text{efficiency}$$

A range of ten sizes: 15, 30, 31, 32, 33, 34, 35, 36, 37, 38.
 Rated output torque: from 10 N.m to 14,500 N.m.
 Power ratings: from 0.06 to 110 kW.
 Reduction ratios: from 1.16 to 252.
 High efficiency: 95% to 98%.
 Reversible.
 Quiet operation.

Construction

Description of Compabloc gearboxes (Cb)

Component	Materials	Remarks
Housing	Aluminium (15, 30) ENGJL-200 cast iron (31 to 37)	- use of cast aluminium - use of ENGJL-200 cast iron (flake graphite: 200 MPa tensile strength) single component perlite to ensure unit is fully sealed - monobloc ribbed with internal reinforcements to absorb vibrations and noise, and increase its rigidity - foot mounted S, BT or with flanges BS, BD or BR. They are compact and meet industrial requirements
Gears	Steel Ni Cr Mo	- cut by the 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
Lipseals	Nitrile	- sealing ring on motor side - sealed gasket with antidust lipseal in accordance with DIN 3760 form AS - gasket under the access cover (30 to 37)
Shaft	Steel	- grinding of sealing surfaces - key in accordance with ISO R773 - tolerance of diameters in accordance with NFE 22-051 and ISO R 775 - tapped holes at the shaft end for fixing connecting devices in accordance with DIN 332
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 (except Cb 15, 30)
Mounting		AP: gearbox with input shaft MI: geared motor with built-in motor MU: geared motor with IEC motor, manufactured with universal mounting
Standard motor		LS, LSES: multi-voltage 230/400 VY - 400 VΔ three-phase and 230 V single-phase - fan cover made of composite material (80 to 100) or pressed steel (≥ 112), on request fitted with a drip cover for operation in vertical position (shaft facing down) - LS: metal terminal box fitted with cable gland - LSES: terminal box made of composite material (80 to 112) or aluminium alloy (≥ 132) equipped with threaded plugs (without cable glands) - IP 55 standard protection
Brake motors		FMD: failsafe brake induction motor, from 0.06 to 0.25 kW, IP 55 protection (LS 56 to 71) FCR: failsafe brake induction motor, from 0.25 to 15 kW (LS), from 0.75 to 11 kW (LSES), IP 55 protection FCPL: failsafe brake induction motor, from 11 to 75 kW, IP 44 protection (LS, LSES 160 and 225)
Finish	Paint	Shade: RAL 6000 (green), system I (1 polyurethane vinyl layer of 25/30 μm)

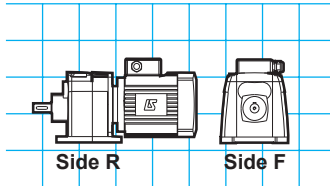
Electromechanical products

Compabloc 3000

Mounting - Operating positions

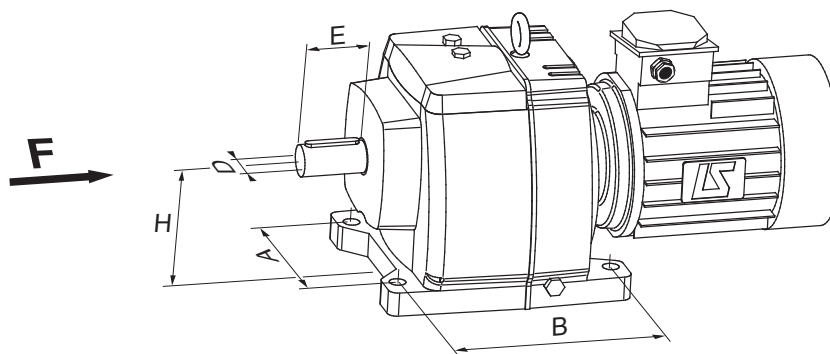
Standard position: gearbox view from side F, motor behind, side D on the floor.

Definition of mounting form: **S**



S

Foot mounted housing



Compabloc	1-stage gearbox					
	ØD	E	A	B	H	
Cb 3531	45k6	90	260	160	160	41
Cb 3431	40k6	80	216	125	132	25
Cb 3331	35k6	70	190	100	112	15.5
Cb 3231	25j6	50	140	80	90	8.3
Cb 3131	20j6	40	120	75	80	6.9
Cb 3031	16j6	40	125	70	75	2.3

Compabloc	Multi-stage gearbox					
	ØD	E	A	B	H	
Cb 3833	110m6	210	510	480	355	290
Cb 3733	90m6	170	420	390	315	192
Cb 3633	70m6	140	355	355	250	162
Cb 3533	60m6	120	280	280	225	90
Cb 3433	50k6	100	230	235	180	50
Cb 3333	40k6	80	170	240	140	30
Cb 3233	30j6	60	135	192	115	18.5
Cb 3133	25j6	50	110	165	90	13
Cb 3033	20j6	40	125	125	75	4.9
Cb 3032	20j6	40	125	105	75	4.8
Cb 15--	16j6	40	100	105	90	3.2

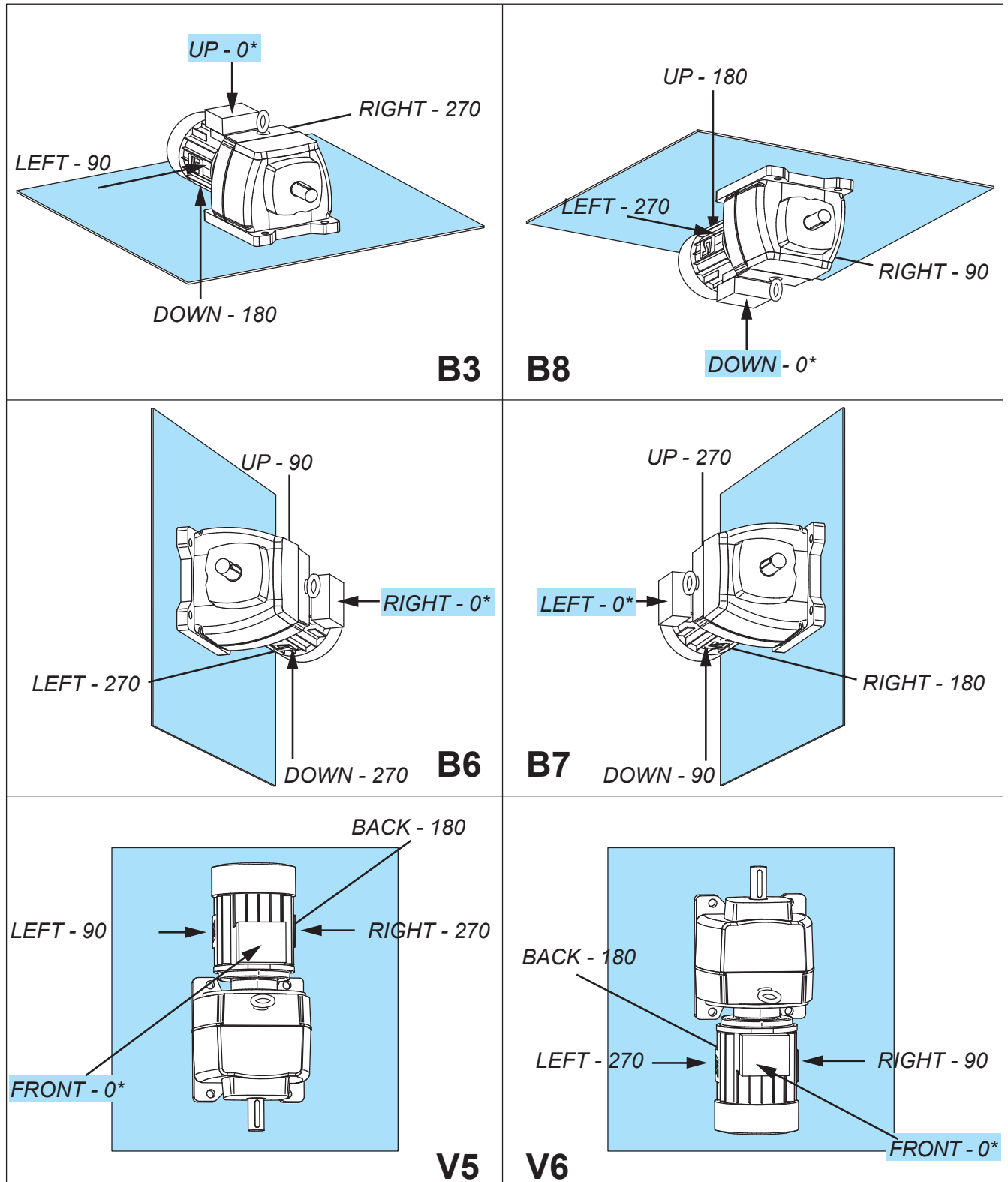
Electromechanical products

Compabloc 3000

S 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 for an observer, facing the gearbox.



*: Std terminal box

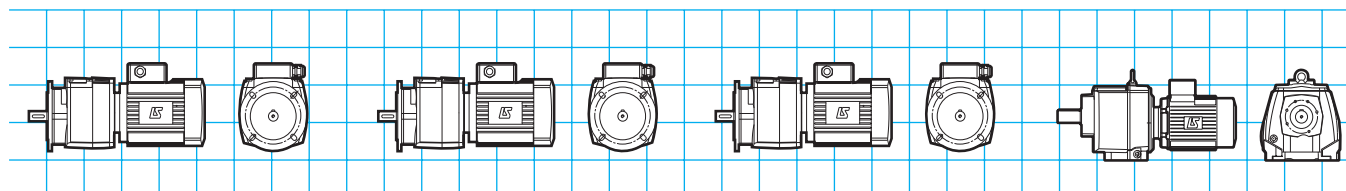
Electromechanical products

Compabloc 3000

Mounting - Operating positions

Standard position: gearbox view from side F, motor behind, side D on the floor.

Definition of mounting form: BS, BDn..., BR, BT

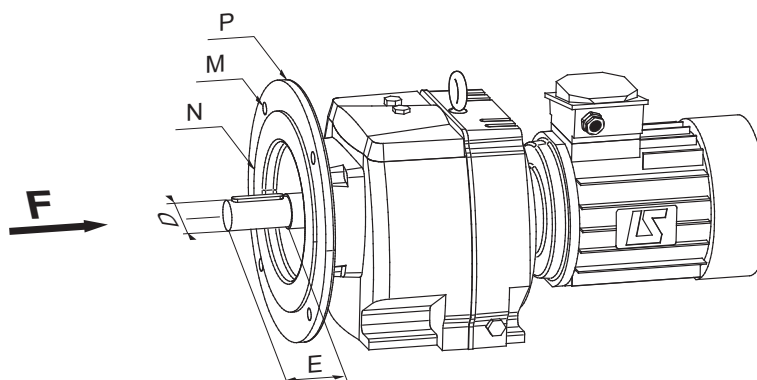


BS
Flange housing
with plain holes

BDn...
Flange housing (different
diameter) with plain holes

BR
Reinforced flange
housing

BT
Housing with side F
with tapped holes



1-stage gearbox																		
Compabloc	BS						BD1				BD2				BD3			
	ØD	E	ØM	ØN	ØP	 kg	ØM	ØN	ØP	 kg	ØM	ØN	ØP	 kg	ØM	ØN	ØP	 kg
Cb 3531	45k6	90	300	250	350	48	265	230	300	46	-	-	-	-	-	-	-	-
Cb 3431	40k6	80	265	230	300	31	215	180	250	30	-	-	-	-	-	-	-	-
Cb 3331	35k6	70	215	180	250	19	165	130	200	18	-	-	-	-	-	-	-	-
Cb 3231	25j6	50	165	130	200	10	130	110	160	9.5	-	-	-	-	-	-	-	-
Cb 3131	20j6	40	130	110	160	8.1	115	95	140	7.9	-	-	-	-	-	-	-	-
Cb 3031	16j6	40	115	95	140	2.5	100	80	120	2.5	130	110	160	2.5	165	130	200	2.4

Multi-stage gearbox																		
Compabloc	BS						BD1				BD2				BD3			
	ØD	E	ØM	ØN	ØP	 kg	ØM	ØN	ØP	 kg	ØM	ØN	ØP	 kg	ØM	ØN	ØP	kg
Cb 3833	110m6	210	600	550	660	352	500	450	550	328	-	-	-	-	-	-	-	-
Cb 3733	90m6	170	500	450	550	228	400	350	450	222	-	-	-	-	-	-	-	-
Cb 3633	70m6	140	500	450	550	196	400	350	450	190	-	-	-	-	-	-	-	-
Cb 3533	60m6	120	350	300	400	97	300	250	350	96	265	230	300	90	-	-	-	-
Cb 3433	50k6	100	300	250	350	56	265	230	300	55	215	180	250	54	-	-	-	-
Cb 3333	40k6	80	265	230	300	34	215	180	250	33	165	130	200	32.5	-	-	-	-
Cb 3233	30j6	60	215	180	250	18.8	165	130	200	18.7	130	110	160	18.6	-	-	-	-
Cb 3133	25j6	50	165	130	200	13.4	130	110	160	13.3	115	95	140	13.2	100	80	120	13.1
Cb 3033	20j6	40	115	95	140	4.9	100	80	120	4.5	130	110	160	4.9	165	130	200	5
Cb 3032	20j6	40	115	95	140	4.9	100	80	120	4.5	130	110	160	4.9	165	130	200	5
Cb 15--	16j6	40	100	80	120	2.9	85	70	105	2.8	115	95	140	3	-	-	-	-

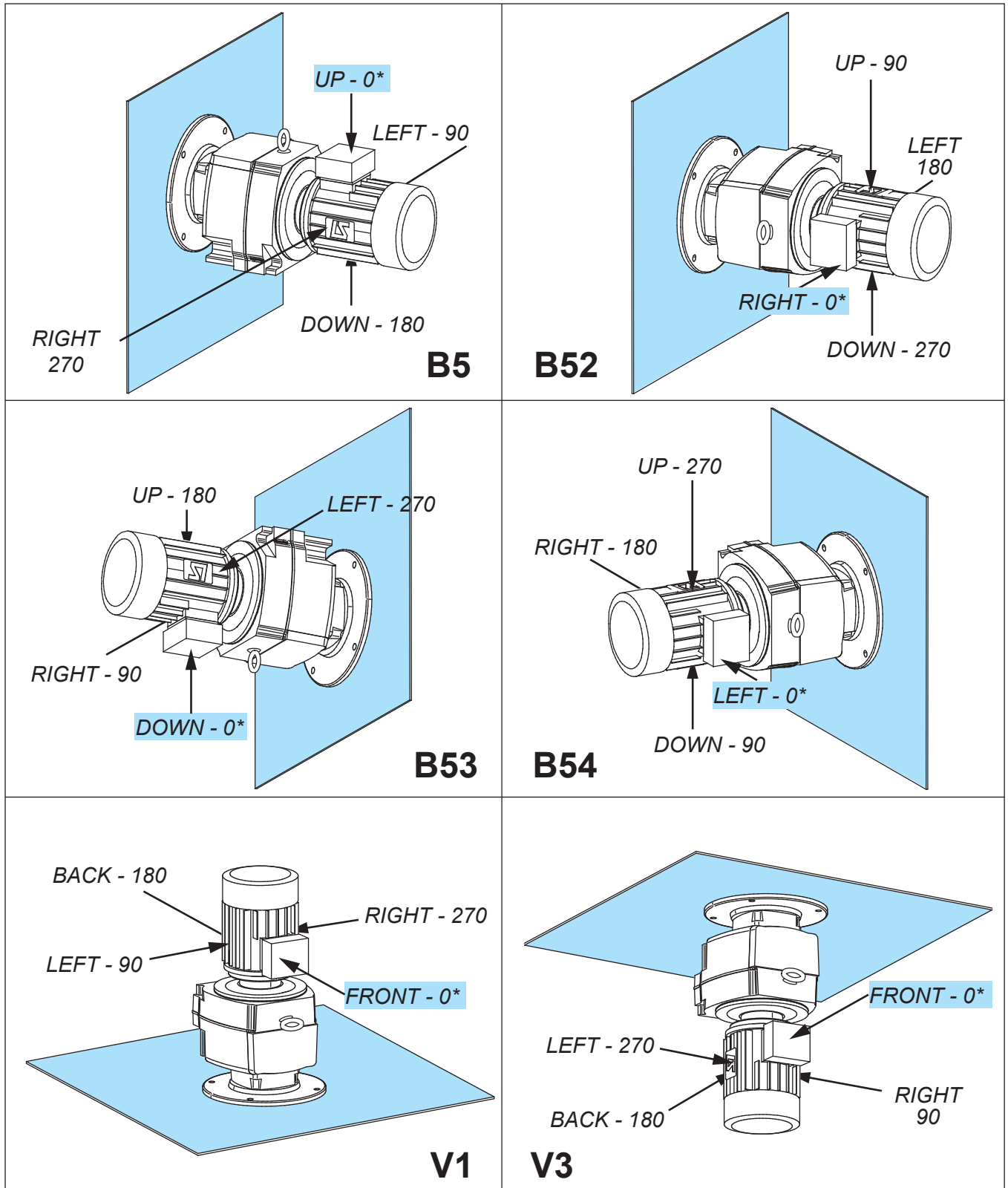
Electromechanical products

Compabloc 3000

Operating positions BS, BD, BR, BT

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 for an observer, facing the gearbox.

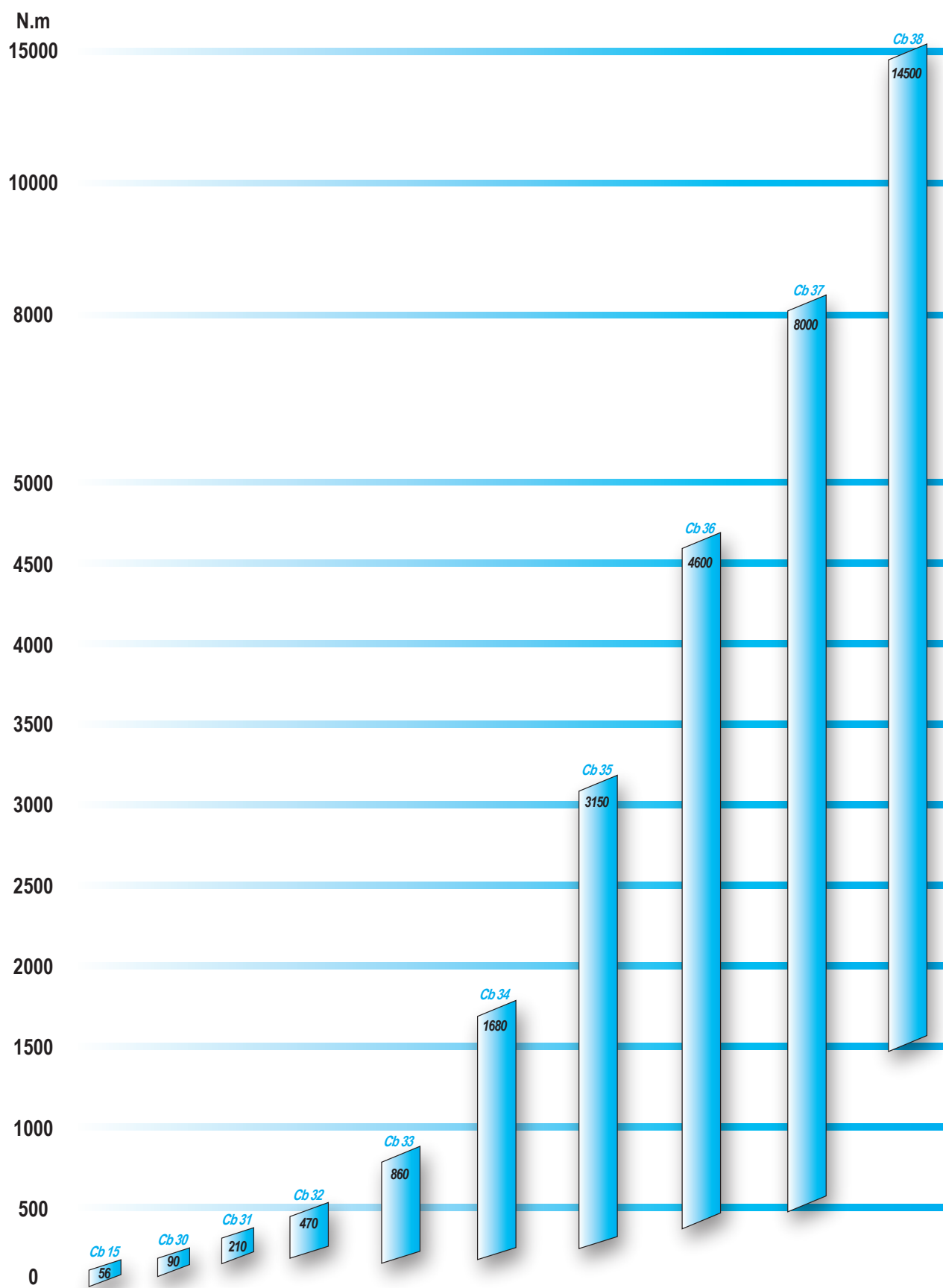


* : Std terminal box

Electromechanical products

Compabloc 3000

General information - Ranges



Electromechanical products

Compabloc 3000

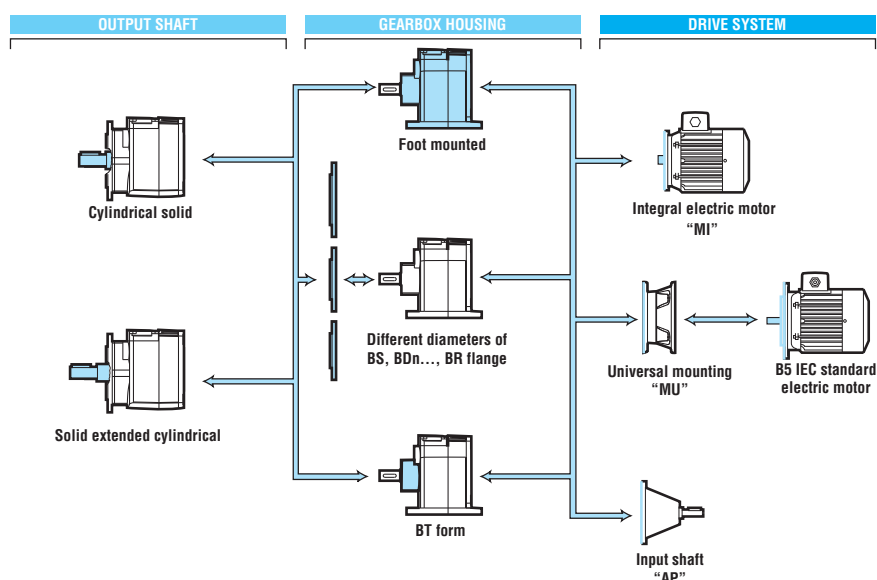
Adaptation possibilities

Leroy-Somer offers several drives for its gearboxes which satisfy a very broad range of requirements. They are described below and offered in this catalogue.

For other drives, consult the Leroy-Somer technical specialists who will be glad to assist.

Compabloc Cb gearboxes can be used in conjunction with the following drives:

- **single-phase induction motors:**
 - LS motor from 0.06 to 0.25 kW
 - LS FMD brake motor from 0.06 to 0.25 kW
- **fixed speed three-phase induction motors:**
 - LS motor from 0.06 to 0.55 kW
 - LSES motor from 0.75 to 110 kW
 - LS FMD brake motor from 0.06 to 0.25 kW
 - FCR LS brake motor from 0.25 to 15 kW
 - LSES motor from 0.75 to 11 kW
 - LS, LSES FCPL brake motor from 11 to 90 kW



Designation / Coding

Cb	3333	30.2	BS	S	B52	MI	4P	LSES 112 MU	4 kW LS2/IE2	230/400 V 50 Hz	UG
Compabloc gearbox type	Size and manufacturer code	Exact reduction	Mounting form	Definition of the output shaft	Operating position	Type of input	Number of poles	Series, frame size, manufacturer code	Motor power Generation code Class η	Mains voltage and frequency	Application

Example of coding:

Compabloc 3333 with flange 4 kW, 47 min⁻¹, class I

Designation:

Cb 3333 i:30.2 BS S B52 MI 4P
LSES 112 MU 4 kW LS2/IE2 230/400V 50 Hz UG

Code:

473 8378

All the products in this catalogue have a code.

The coding table is incorporated in the price list with the list of designations.

Each electromechanical product is classified in order of power and then in order of speed.

Electromechanical products

Compabloc 3000

Selection

The selection of a gearbox or a geared motor should take account of the application. Some of these applications are listed in the indicative "AGMA" load classification, on the next page.

The table opposite summarises the relationship between the "AGMA" class and the gearbox duty factor K_p .

"AGMA" class	Gearbox duty factor K_p
I	1
II	1.4
III	2

1st case – Your application is listed

Follow the indicative load classification table according to "AGMA" on the next page.

Indicative load classification according to "AGMA"			
Applications			
Operation in hours/day			
	3 h/day	10 h/day	24 h/day
CONVEYORS (loaded or fed uniformly)			
belt	I	I	II
chain	I	I	II

Application example: Belt CONVEYOR

Operating time: 10 hours/day

"AGMA" class: I

Gearbox duty factor $K_p = 1$

2nd case – Your application is not listed

The "AGMA" selection class is defined by the daily operating time and the type of application operation, according to the table below. ▼

Type of application	Daily operating time	"AGMA" class
Shock-free, not many starts	10 hours/day	I
Damped shocks	10 hours/day	II
Shock-free, not many starts	24 hours/day	II
Violent shocks, many starts	10 hours/day	III
Damped shocks	24 hours/day	III

Electromechanical products

Compabloc 3000

List of applications

OPERATION in hours/day				OPERATION in hours/day				OPERATION in hours/day			
	3 h/day	10 h/day	24 h/day		3 h/day	10 h/day	24 h/day		3 h/day	10 h/day	24 h/day
AGITATORS				dough mixers	I	II	II	padding calenders	I	II	II
liquids and solids	II	II	II	extruding machines	I	II	II	reelers (except drum)	I	II	II
liquids with variable density	I	II	II	meat choppers	II	II	II	soap milling machines	I	II	II
pure liquids	I	I	II	GRINDERS				spinning machines	I	I	II
semi-liquids, variable density	II	II	II*	minerals	III	III	III*	thread preparation machines:			
BREWERIES, DISTILLERIES				stones	III	III	III*	washing machines	I	II	II
boilers, continuous duty			II	HAMMER MILLS	III	III	III*	weaving looms	II	III	III
bottling machines	I	I	II	ROTARY GRINDERS				RUBBER (industry)			
brewing vats, continuous duty			II	ball mills	III	III	III*	air chamber extruder	II	II	II
cookers, continuous duty			II	pebble mills	III	III	III*	calenders	II	II	II*
scaling hoppers:				rod mills	III	III	III*	extruding machines	II	II	III
frequent starts	II	II	III	MACHINE TOOLS				grinders (2 or more)	II	II	II*
CANE KNIVES	II	II	III	auxiliary drive system	I	II	II	mixers	III	III	III*
SIEVES				main drive system	I	I	II	sheet forming machines	I	II	II*
rotary	I	II	III	bending rollers	II	II	II	TIPPERS	III	III	
stone washer with water circulation	I	I	II	flat planers	III	III	III*	TIMBER (industry)			
DREDGERS				punching machines (geared)	III	III	III*	ball conveyors	III	III	III*
cable winding drums	I	II	-	nut tappers	II	III	III*	ball support plates	III	III	III*
conveyors	I	II	II	shears	III	III	III	barking drums	III	III	III*
cutting head control	III	III	III*	drawing frames, carriage	III	III	III*	barking machine, feeder	II	II	III
handling winches	II	II	-	drawing frames, main control	III	III	III*	barking machine, main drive system	III	III	III*
pumps	I	II	-	drying rollers	-	-	-	burner conveyors	I	II	III
service winches	II	II	-	roller drive	III	III	III	chains	II	II	III
shaker control	III	III	III*	spreading systems	III	III	III*	circular feed conveyors	I	II	III
sieve control	III	III	III*	separating rollers	-	-	-	cutting saws:			
CLARIFIERS	I	I	II	shape-cutting machines	III	III	III*	chain	II	II	III
SORTERS, GRADERS	I	II	II	sheet metal winders	I	II	II	for ball turning	III	III	III*
COMPRESSORS				splitting lines	II	II	III	for planer inclination	I	II	III
centrifugal	I	II	II	table conveyor:				reciprocating	II	II	III
CONVEYORS (loaded or fed non-uniformly)				reverse operation	III	III	III	devices:			
heavy duty:				single direction of operation	I	II	III	haulage of balls:			
apron	II	II	II	wire drawing mills, flatteners	II	II	III	inclined	III	III	III*
assembly	II	II	II	agitators, mixers	I	II	II	well	III	III	III*
belt	II	II	II	ball conveyors	III*	III*	III*	main conveyors	I	II	III
bucket	II	II	II	barking drums	III	III	III*	peeling tower	-	-	-
chain	II	II	II	barking machines (mechanical)	III	III	III	plank conveyors	III	III	III*
furnace	II	II	II	bleaching vats	I	II	II	roller drive system	III	III	III*
reciprocating	III	III	III*	calenders	I	I	II*	sorting tables	I	II	III
removal	I	I	-	centrifugal	I	I	II	supplying:			
roller	I	I	II	conveyors	I	II	II	cutting	II	II	III
scraper	II	II	II	cutters, plating machines	I	II	II	planers	II	II	III
screw	II	II	II	cylinders	I	II	II	saws in series	III	III	III*
vibrator	III	III	III*	dosing	I	II	II*	shape-cutting machines	II	II	III
CONVEYORS (loaded or fed uniformly)				driers	I	II	II*	transfer conveyors	I	II	III
apron	I	I	II	felt stitching machines	III*	III*	III*	transfer:			
assembly	I	I	II	felt tension devices	I	II	II	chain	I	II	III
belt	I	I	II	presses	I	II*	II*	on bogies	I	II	III
bucket	I	I	II	pulp hammers	II	II	II*	turntable control	I	II	III
chain	I	I	II	pulp machines, uncoilers	I	II	II	waste conveyors	I	II	II
furnace	I	I	II	PUMPS				TRANSMISSION SHAFT			
scraper	I	I	II	reciprocating:				brick machines	III	III	III*
screw	I	I	II	multi-cylinder single-acting	I	II	II	brick presses	III	III	III*
CONTROL (vehicle)	II	II	II	rotary:				CLAY (industry)			
ELEVATORS				geared	I	I	II	constant loads	I	I	II
buckets:				lobed, vaned	I	I	II	loads with moderate shocks	I	II	II
continuous load	I	I	II	suction rollers	I	II	II*	loads with severe shocks	III	III	III*
heavy load	II	II	II	washers, thickeners	I	II	II*	mixers	II	II	II
uniform load	I	I	II	wind up turrets	I	I	II	processing machines	II	II	II
centrifugal unloading	I	I	II	wire winders	I	II	II	WASHING MACHINES			
escalators	I	II	III	wood pulp storing machines	I	II	II	drum	II	II	II
gravity unloading	I	I	II	agitators, mixers	I	II	II	reversible	II	II	II
hoist for building materials	III	III	-	ball conveyors	III*	III*	III*	WINDING MACHINES			
COOLING TOWERS	-	-	-	barking drums	III	III	III*	FILTERS	I	II	III
CRANES AND LIFTING				barking machines (mechanical)	III	III	III	FURNACES			
bucket winches	-	-	-	alignment controls	-	-	-	dryers, coolers	I	II	II
hoisting gear	-	-	-	calenders	I	II	II	tumbling barrels	III	III	III*
moving bridge	-	-	-	carding machines, spinners	I	II	II*	WINDLASSES, CAPSTANS	II	II	II*
moving truck	-	-	-	cloth finishing machines:				PRINTING (presses)	I	I	II
FEEDING (attachment)				washers, spreading machines	I	II	II	PACKAGING MACHINES			
belt	I	II	II	dryers, calenders	I	II	II	stackers	II	III	III
disks	I	I	II	driers	I	II	II	wrapping machines	I	I	II
lattice	I	II	II*	drying machines, mangles	II	II	II				
reciprocating	III	III	III*	dyeing machines	I	II	II				
screw	I	II	II	glueing machines	I	II	II				
FOOD AND BEVERAGE INDUSTRY				knitting machines	-	-	-				
beet choppers	II	II	II	loading hoppers	II	II	II				
cereal cookers	I	I	II	napping mills	I	II	II				

* : These classes assume minimum and normal conditions. To take account of variations which may affect the load conditions, it is recommended that applications are carefully researched before making a selection.

- : Consult Leroy-Somer

Electromechanical products

Compabloc 3000

Conditions

Cb: S, BS, BT, BDn, BR

LS: IP55 - 50 Hz - Cl. F - 400 VY - from 0.06 to 0.55 kW - LSES: IP55 - 50 Hz - Cl. F - 400 VY, 400 VA from 0.75 to 110 kW LS2/IE2 - U.G.

LS, LS FMD brake: IP55 - 50 Hz - Cl. F - 230/400 V from 0.06 to 0.25 kW - U.G.

LS FCR brake: IP55 - 50 Hz - Cl. F - 400 V - LS: from 0.25 to 15 kW - LSES: from 0.75 to 11 kW - U.G.

LS, LSES FCPL brake: IP44 - 50 Hz - Cl. F - 400 V from 11 to 90 kW - U.G.

MI

MU

AP

Maximum quantity per order

Input	Cb 3031	Cb 3131 to 3531	Cb 15--	Cb 3032-3033	Cb 3133 to 3533	Cb 3633	Cb 3733	Cb 3833
AP	-	5	5	5	5	2	2	2
MI LS	1-ph 0.06-->0.25 kW	5	-	5	-	-	-	-
	3-ph 0.06-->0.55 kW	5	5	5	5	-	-	-
MI LSES	3-ph 0.75 --> 9 kW	5	5	-	5	2	2	2
	11 --> 45 kW	-	2	-	-	2	2	2
MI LS FMD	1-ph 0.06-->0.25 kW	-	-	-	-	-	-	-
	3-ph 0.06 --> 0.25 kW	5	-	5	-	-	-	-
MI LS FCR	0.25 --> 9 kW	5	5	-	5	2	2	2
	11 - 15 kW	-	2	-	-	2	2	1
MI LSES FCR	0.75 --> 11 kW	-	-	-	-	-	-	-
MI LS, LSES FCPL	11 --> 75 kW	-	-	-	-	-	-	-
MU LS	1-ph 0.06 -->0.25 kW	5	-	5	-	-	-	-
	3-ph 0.06 -->0.55 kW	5	5	5	5	-	-	-
	3-ph 0.75 -->9 kW	5	5	-	5	2	2	2
MU LSES	11 --> 30 kW	-	2	-	-	2	2	2
	37 - 45 kW	-	-	-	-	1	1	1
	55 ¹ -->110 kW ¹	-	-	-	-	1	1	1
MU LS FCR	0.25 --> 9 kW	5	5	-	5	2	2	2
	11 - 15 kW	-	1	-	-	1	1	1
MU LSES FCR	0.75 --> 11 kW	-	-	-	-	-	-	-
MU LS, LSES	11 --> 45 kW	-	-	-	-	-	-	-
FCPL	55 ¹ --> 90 kW ¹	-	-	-	-	-	-	-

1. B35 motor obligatory

Pages of dimensions corresponding to mounting

Type	1-stage Cb MI forms						Mounting	
	Feet	Flange	Other flanges			Faceplate	1-stage Cb	1-stage Cb
	S	BS	BD1	BD2	BD3	BT	MU	AP
Cb 3031	31	31	30	30	30	30	64	29
Cb 3131	33	33	32	32		32	64	29
Cb 3231	35	35	34			34	64	29
Cb 3331	37	37	36			36	64	29
Cb 3431	39	39	38			38	64	29
Cb 3531	41	41	40			40	64	29

Type	Multi-stage Cb MI forms						Mounting		
	Feet	Flange	Other flanges			Faceplate	Backstop ¹	Multi-stage Cb	Multi-stage Cb
	S	BS	BD1	BD2	BD3	BR	BT	AD/AP-MI-MU	AP
Cb 1502to1504	43	43	42	42			42		29
Cb 3032	45	45	44	44	44		44		29
Cb 3033	47	47	46	46	46		46		29
Cb 3133	49	49	48	48	48		48		29
Cb 3233	51	51	50	50			50		29
Cb 3333	53	53	52	52		52	52		29
Cb 3433	55	55	54	54		54	54		29
Cb 3533	57	57	56	56		56	56		29
Cb 3633	59	59	58				58	29-58-59-64	29
Cb 3733	61	61	60				60	29-60-61-64	29
Cb 3833	63	63	62				62	29-62-63-64	29

Options

	Input	Electrical options			Mechanical options			Brake options		
		230/400V	400VΔ	PTO/PTC	Drip cover	Cover sheet	Hand brake release	Different Mf	TRR	J01
LS	0.06 --> 0.55 kW		-			-	-	-	-	-
	0.75 - 0.9 kW		-				-	-	-	-
	1.1 --> 3 kW						-	-	-	-
	4 --> 9 kW MI						-	-	-	-
LSES	11 - 15 kW MI					Standard	-	-	-	-
	18.5 --> 45 kW MI					Standard	-	-	-	-
	4 --> 9 kW MU					Standard	-	-	-	-
	11 --> 45 kW MU					Standard	-	-	-	-
	55 ¹ --> 110 kW ¹ MU					Standard	-	-	-	-
LS FMD	0.06 - 0.25 kW		-							
	0.25 - 3 kW					Standard				
LS FCR	4 - 5.5 kW					Standard				
	7.5 - 9 kW					Standard				
	11 - 15 kW					Standard				
LSES FCR	0.75-->11 kW									
	11 --> 45 kW									
LS, LSES FCPL	55 ¹ --> 90 kW ¹									

1. B35 motor obligatory

DG	<	2 WD	<	5 WD	<	10 WD	<	15 WD	<	To be agreed
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DG : Availability ; n WD : Working Days

Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

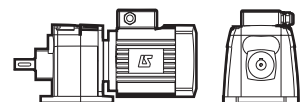
Cb 3031
LS, LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3031													
LS, LSES (kW)													
0.06	0.09	0.12	0.18	0.25	0.37	0.55	0.75	0.9	1.1	1.5			
Three-phase 4-pole LS, LSES													
56		63		71				80		90			
Single-phase 4-pole LS													
min-1	i exact	56 P		63 P		71 P							
178	8.13	6.16	3.87	2.73	1.76	1.27	0.84						
201	7.22	6.93	4.36	3.07	1.98	1.43	0.94						
227	6.4	7.82	4.92	3.47	2.23	1.61	1.07						
249	5.82	8.60	5.41	3.82	2.46	1.78	1.17						
281	5.17	9.68	6.09	4.30	2.77	2.00	1.32						
316	4.58		6.87	4.84	3.12	2.25	1.49					0.97	
356	4.08		7.72	5.45	3.51	2.53	1.67					1.10	0.82
400	3.63		8.68	6.12	3.95	2.85	1.88					1.23	0.93
448	3.24		9.73	6.86	4.42	3.19	2.11	1.38	1.04	0.85			
527	2.75		8.07	5.20	3.76	2.48	1.62	1.22	1.00				
569	2.55		8.71	5.61	4.05	2.68	1.75	1.32	1.08				
662	2.19			6.53	4.72	3.11	2.04	1.53	1.26				
741	1.96			7.31	5.28	3.49	2.28	1.72	1.41				
794	1.83	7.83		5.66	3.74	2.45	1.84	1.51					
943	1.54	9.30		6.72	4.43	2.90	2.18	1.79					
992	1.46		9.79	7.07	4.67	3.06	2.30	1.88					
1096	1.32			7.81	5.16	3.38	2.54	2.08					
4-pole LS, LSES and brakes													
Three-phase 4-pole LS, LSES													
LS FMD		56 M		63 M		71 M							
LS FCR						71 L			80 L				
LSES FCR									80				
Single-phase 4-pole LS													
LS FMD		56 MP	63 MP	71 MP									

Selection example

Required power: 0.25 kW
 Required speed: 178 min-1
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: horizontal, foot mounted
Designation: Cb 3031 i: 8.13 S S M - MI 4p LS 71M 0.25 kW - 400 VY - U.G.



Electromechanical products

Compabloc 3000

Selection

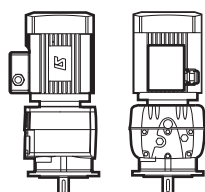
Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3131
LS, LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3131												
LS, LSES (kW)												
		0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3	4
Three-phase 4-pole LS, LSES												
min-1	i exact	71			80		90			100		112
183	7.91	4.08	2.70									
202	7.17	4.50	2.97									
232	6.25	5.17	3.41	2.23	1.68	1.38	1.14 ●					
255	5.69	5.67	3.75	2.45	1.84	1.51	1.25 ●					
295	4.92	6.57	4.34	2.84	2.13	1.75	1.45	1.06	0.88			
331	4.38	7.36	4.86	3.18	2.39	1.96	1.62	1.19	0.98	0.80		
369	3.93	8.22	5.43	3.55	2.67	2.19	1.81	1.32	1.10	0.90		
422	3.44	9.39	6.20	4.06	3.05	2.50	2.07	1.51	1.25	1.02		
446	3.25	9.93	6.56	4.29	3.23	2.64	2.19	1.60	1.32	1.08		
530	2.74		7.79	5.10	3.83	3.14	2.60	1.90	1.57	1.29	0.94	
562	2.58		8.27	5.41	4.07	3.33	2.76	2.02	1.67	1.36	1.00	
634	2.29		9.33	6.10	4.59	3.76	3.11	2.27	1.88	1.54	1.13	
725	2			6.76	5.06	4.15	3.43	2.50	2.08	1.70	1.24	
824	1.76			7.18	5.34	4.39	3.62	2.64	2.19	1.79	1.31	
932	1.56			7.47 ●	5.55 ●	4.57 ●	3.76	2.75	2.28	1.86	1.36	
1051	1.38			7.74 ●	5.75 ●	4.74 ●	3.90	2.85	2.36	1.93	1.41	
1190	1.22			8.29	6.16	5.07	4.18	3.05	2.53	2.07	1.51	
1254	1.16			8.56	6.36	5.23	4.31	3.15	2.61	2.14	1.56	
4-pole LS, LSES and brake												
Three-phase 4-pole LS, LSES												
LS FCR		71 L			80 L		90 L			100 L		
LSES FCR					80		90			100		

• MU obligatory



Selection example

Required power:	1.5 kW
Required speed:	331 min-1
Duty factor required by the application:	Kp = 1
Operating position; Mounting form:	V1 vertical; BS flange
Designation:	Cb 3131 i: 4.38 BS S V1 - MI 4p LSES 90L 1.5 kW LS2/IE2 - 400 VY - U.G.

Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3231
LS, LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3231																
LS, LSES (kW)																
		0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5			
Three-phase 4-pole LS, LSES																
min-1	i exact	71			80		90			100		112	132			
180	8.08	6.40	4.22	2.76	2.08	1.70	1.41 ●									
210	6.92	7.47	4.93	3.23	2.43	1.99	1.65	1.20	1.00	0.81						
230	6.31	8.19	5.41	3.54	2.66	2.18	1.80	1.32	1.09	0.89						
254	5.71	9.04	5.97	3.91	2.94	2.41	1.99	1.46	1.20	0.99						
297	4.88		7.00	4.58	3.44	2.82	2.33	1.71	1.41	1.16	0.84					
335	4.33		7.87	5.15	3.88	3.17	2.63	1.92	1.59	1.30	0.95					
372	3.89		8.76	5.73	4.31	3.53	2.92	2.13	1.77	1.45	1.06			0.80		
423	3.43		9.95	6.51	4.90	4.01	3.32	2.43	2.01	1.64	1.20			0.91		
470	3.09		7.23	5.44	4.45	3.69	2.69	2.23	1.82	1.33	1.01					
533	2.72		8.21	6.17	5.06	4.18	3.06	2.53	2.07	1.51	1.15			0.83		
570	2.55		8.77	6.60	5.40	4.47	3.27	2.70	2.21	1.62	1.23			0.89		
657	2.21					7.60	6.23	5.15	3.77	3.12	2.55			1.86	1.41	1.02
748	1.94					8.67	7.10	5.87	4.29	3.55	2.91			2.13	1.61	1.17
829	1.75					9.44 ●	7.74 ●	6.40 ●	4.67 ●	3.87 ●	3.17 ●			2.31	1.75	1.27
936	1.55					8.41 ●	6.93 ●	5.07 ●	4.20 ●	3.43 ●	2.51	1.90	1.38			
999	1.45					8.23 ●	6.77 ●	4.95 ●	4.10 ●	3.36 ●	2.45	1.85	1.34			
1180	1.23				8.91 ●	7.33	5.36	4.44	3.63	2.66	2.00	1.45				
4-pole LS, LSES and brake																
Three-phase 4-pole LS, LSES																
LS FCR		71 L			80 L		90 L			100 L		112	132			
LSES FCR					80		90			100		112	132			

• MU obligatory

Selection example:

Required power: 1.5 kW
 Required speed: 230 min-1
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: Horizontal B5; BS flange
 Designation: Cb 3231 i: 6.31 BS S B5 - MI 4p LSES 90L 1.5 kW LS2/IE2 - 400 VY - U.G.



Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3331
LS, LSES, LS brake, LSES brake - IP 55 - CI. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3331																
LS, LSES (kW)																
0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5	7.5	9			
Three-phase 4-pole LS, LSES																
min-1	i exact	71		80		90		100		112		132				
185	7.83		8.16	5.34	4.02	3.29	2.72	1.99	1.65	1.35						
205	7.08		9.04	5.92	4.45	3.64	3.01	2.20	1.82	1.49						
229	6.33			6.61	4.97	4.07	3.37	2.46	2.04	1.67	1.22	0.92				
264	5.5			7.61	5.72	4.69	3.88	2.83	2.35	1.92	1.40	1.06				
298	4.87			8.60	6.47	5.30	4.38	3.20	2.65	2.17	1.59	1.20			0.87	
324	4.47			9.36	7.04	5.76	4.77	3.48	2.89	2.36	1.73	1.31			0.95	
367	3.95			7.97	6.52	5.40	3.94	3.27	2.67	1.95	1.48	1.07				
412	3.52			8.74	7.17	5.92	4.33	3.59	2.93	2.14	1.62	1.18				0.87
459	3.16			9.12	7.51	6.18	4.52	3.75	3.06	2.24	1.69	1.23				0.90
498	2.91				8.76	7.25	5.30	4.39	3.59	2.62	1.99	1.44				1.06
561	2.58				9.98	8.26	6.03	5.00	4.09	2.99	2.27	1.64				1.21
644	2.25					8.34	6.10	5.06	4.13	3.02	2.28	1.65				1.22
712	2.04					8.77 ●	6.41 ●	5.32 ●	4.35 ●	3.18	2.40	1.74				1.28
817	1.77			8.27 ●		6.05 ●	5.01 ●	4.10 ●	3.00	2.26	1.64	1.21				
903	1.61		8.29 ●	6.06 ●		5.02 ●	4.11 ●	3.01 ●	2.27 ●	1.64	1.21					
995	1.46		8.40	6.14	5.09	4.16	3.05	2.30	1.67	1.23						
1148	1.26	8.83	6.45	5.35	4.38	3.20	2.41	1.75	1.29							
4-pole LS, LSES and brake																
Three-phase 4-pole LS, LSES																
LS FCR		71 L		80 L		90 L		100 L		112		132				
LSES FCR				80		90		100		112		132				

• MU obligatory



Selection example

Required power:	4 kW
Required speed:	300 min-1
Duty factor required by the application:	Kp = 1
Operating position; Mounting form:	Horizontal B52; BS flange
Designation:	Cb 3331 i: 4.87 BS S B52 - MI 4p LSES 112MU 4 kW LS2/IE2 - 400 VY - U.G.

Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3431
LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

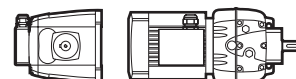
Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

		Cb 3431																	
		LS, LSES (kW)																	
		0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30		
		Three-phase 4-pole LS, LSES																	
min-1	i exact	80	90			100			112	132			160			180		200	
179	8.1	8.05	6.59	5.45	3.98	3.29	2.69	1.97	1.49										
212	6.83		8.25	6.82	4.98	4.12	3.37	2.46	1.87										
236	6.15		9.20	7.61	5.55	4.60	3.76	2.75	2.08	1.51	1.11								
260	5.57			8.40	6.13	5.08	4.15	3.03	2.30	1.66	1.23								
282	5.13			9.12	6.66	5.51	4.51	3.29	2.50	1.81	1.33								
329	4.41					7.75	6.41	5.24	3.83	2.90	2.10	1.55	1.29	1.06					
353	4.11				8.31	6.88	5.63	4.11	3.12	2.26	1.66	1.39	1.13	0.83					
403	3.6				9.49	7.86	6.43	4.70	3.56	2.58	1.90	1.58	1.29	0.95					
456	3.18					8.89	7.27	5.31	4.03	2.91	2.15	1.79	1.46	1.07	0.87				
512	2.83					9.89	8.09	5.91	4.48	3.24	2.39	1.99	1.63	1.19	0.97	0.81			
571	2.54						8.75	6.39	4.84	3.51	2.58	2.15	1.76	1.29	1.04	0.88			
667	2.17						9.73	7.11	5.38	3.90	2.87	2.39	1.96	1.43	1.16	0.98			
737	1.97							7.58 ●	5.74 ●	4.16	3.06	2.55	2.09	1.53	1.24	1.04			
836	1.74							7.41 ●	5.61 ●	4.06	2.99	2.50	2.04	1.49	1.21	1.02			
932	1.56							8.73 ●	6.61 ●	4.79	3.53	2.94	2.40	1.76	1.43	1.20	0.88 ●		
1047	1.38							8.62 ●	6.53 ●	4.73	3.48	2.91	2.37	1.74	1.41	1.18	0.87 ●		
1171	1.24							8.04 ●	6.08 ●	4.41	3.25	2.71	2.21	1.62	1.31	1.10	0.81 ●		
4-pole LS, LSES and brakes		Three-phase 4-pole LS, LSES																	
LS FCR		80 L		90 L			100 L			112	132			160					
LSES FCR		80		90			100			112	132			160					
LS, LSES FCPL														160		180		200	

• MU obligatory

Selection example

Required power: 4 kW
 Required speed: 179 min-1
 Duty factor required by the application: Kp = 1.4
 Operating position; Mounting form: Horizontal B7; foot mounted
Designation: Cb 3431 i: 8.1 S S B7 - MI 4p LS 112MU 4 kW LS2/IE2 - 400 VY - U.G.



Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3531
LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3531																		
LSES (kW)																		
		1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30			
Three-phase 4-pole LSES																		
min-1	i exact	90			100		112	132			160		180		200			
181	8	9.93	7.24	5.99	4.90	3.58	2.71	1.96	1.45									
211	6.87		8.20	6.78	5.55	4.05	3.07	2.22	1.64									
230	6.31		9.26	7.66	6.26	4.58	3.47	2.51	1.85									
264	5.5			8.79	7.19	5.25	3.98	2.88	2.12	1.77	1.45	1.06	0.86					
299	4.85			9.92	8.11	5.92	4.48	3.25	2.39	2.00	1.63	1.19	0.97	0.81				
333	4.35			9.09	6.64	5.03	3.64	2.68	2.24	1.83	1.34	1.08	0.91					
374	3.88			9.83	7.18	5.44	3.93	2.90	2.42	1.98	1.45	1.17	0.98					
408	3.55			7.88	5.96	4.31	3.18	2.65	2.17	1.58	1.29	1.08						
472	3.07			7.94	6.01	4.35	3.21	2.67	2.19	1.60	1.30	1.09						
523	2.77			8.88	6.70	4.86	3.57	2.98	2.44	1.78	1.45	1.21	0.89					
594	2.44			9.43 ●	7.11 ●	5.16	3.79	3.16	2.58	1.89	1.53	1.29	0.95					
644	2.25			9.76 ●	7.36 ●	5.33	3.92	3.27	2.67	1.96	1.59	1.33	0.98					
725	2			7.71 ●	5.58	4.11	3.42	2.8	2.05	1.66	1.40	1.03						
812	1.79			8.03 ●	5.82	4.28	3.57	2.92	2.14	1.73	1.45	1.07						
906	1.6									3.71	3.03	2.22	1.80	1.51	1.11			
994	1.46									3.82	3.12	2.28	1.85	1.56	1.14			
1137	1.28							3.97	3.25	2.38	1.93	1.62	1.19					
4-pole LS, LSES and brakes																		
Three-phase 4-pole LS, LSES																		
LS FCR		90 L			100 L		112	132			160							
LSES FCR		90			100		112	132			160							
LS, LSES FCPL												160		180		200		

• MU obligatory



Selection example

Required power: 15 kW
 Required speed: 300 min⁻¹
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: Horizontal B7; foot mounted
 Designation: Cb 3531 i: 4.85 S S B7 - MI 4p LSES 160L 15 kW LS2/IE2 - 400 VΔ - U.G.

Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

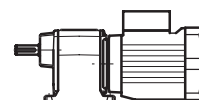
Cb 15
LS, brake LS - IP 55 - Cl. F - 230 V/400 V Y - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 1502, 1503, 1504																
LS (kW)																
		0.06	0.09	0.12	0.18	0.25	0.37	0.55	0.75	0.9	1.1	1.5				
Three-phase 4-pole LS																
56			63			71			80		90					
Single-phase 4-pole LS																
min-1	i exact	56 P	63 P		71 P				80		90					
6.29	231	1.01														
7.13	203	1.14			Cb 1504											
8.01	181	1.27														
9.01	161	1.33	0.83													
10.1	144	1.48	0.92													
11.6	125	1.69	1.05													
13.1	110	1.89	1.18										0.83			
14.8	98.3	2.10	1.31										0.92			
16.4	88.2	2.32	1.45										1.02	Cb 1503		
18.2	79.7	2.54	1.58										1.11			
20.5	70.8	2.80	1.74										1.23			
22.5	64.6	3.01	1.87										1.32		0.85	
24.5	59.1	3.22	2.00										1.41		0.91	
29.0	50.1	3.71	2.30	1.63	1.04											
31.4	46.2	3.91	2.43	1.72	1.10											
35.6	40.8	4.31	2.68	1.89	1.21	0.87										
39.3	36.9	4.64	2.88	2.03	1.31	0.94										
46.0	31.5	4.16	2.60	1.83	1.18											
51.5	28.2	5.70	3.56	2.51	1.61								1.16			
59.1	24.5	6.38	3.99	2.80	1.80								1.30			
67	21.6	7.13	4.46	3.14	2.01								1.45	Cb 1502		
75.2	19.3	7.89	4.93	3.47	2.23								1.61			
83.8	17.3	8.62	5.39	3.79	2.44								1.76		1.16	
92.8	15.6	9.37	5.86	4.12	2.65								1.91		1.26	
104	13.9		6.40	4.50	2.89								2.09		1.38	
115	12.7		6.84	4.81	3.09								2.23		1.47	0.96
125	11.6		7.24	5.10	3.27								2.36		1.56	1.02
148	9.81		8.16	5.74	3.69	2.66	1.76	1.15								
160	9.07		8.63	6.07	3.90	2.81	1.86	1.21								
181	7.99		9.53	6.70	4.31	3.11	2.05	1.34								
201	7.23			7.07	4.55	3.28	2.16	1.42								
4-pole LS and brakes																
Three-phase 4-pole LS																
FMD		56 M		63 M		71 M										
FCR						71 L										
Single-phase 4-pole LS																
FMD		56 MP	63 MP		71 MP											

Selection example

Required power:	0.18 kW
Required speed:	45 min-1
Duty factor required by the application:	Kp = 1
Operating position; Mounting form:	horizontal, foot mounted
Designation: Cb 1502 i: 31.5 S S M - MI 4p LS 63M 0.18 kW - 400 VY - U.G.	



Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 30
LS, LSES, LS brake, LSES brake - IP 55 - CI. F
230 V/400 V Y - 50 Hz - U.G.

Integral mounting **MI**

Universal mounting **MU**

Input shaft mounting **AP**

Cb 3032, 3033

LS, LSES (kW)

0.06	0.09	0.12	0.18	0.25	0.37	0.55	0.75	0.9	1.1	1.5
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Three-phase 4-pole LS, LSES

56	63	71	80	90
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Single-phase 4-pole LS

min-1	i exact	56 P	63 P	71 P								
7.1	204	1.41	0.89									
7.99	181	1.59	1.00									
9.02	161	1.79	1.13	0.80								
9.92	146	1.97	1.24	0.88								
11.2	130	2.22	1.40	0.99								
12.6	115	2.50	1.58	1.11								
14.2	102	2.82	1.77	1.25	0.80							
15.9	91.1	3.17	1.99	1.41	0.91							
17.8	81.3	3.55	2.23	1.57	1.01							
21.0	69.1	4.17	2.63	1.85	1.19	0.86						
22.6	64.1	4.50	2.83	2.00	1.29	0.93						
26.4	55	5.24	3.30	2.33	1.50	1.08						
29.5	49.2	5.87	3.69	2.60	1.68	1.21	0.80					
31.6	45.9	6.28	3.95	2.79	1.80	1.30	0.86					
37.5	38.7	7.44	4.68	3.30	2.13	1.54	1.01					
39.5	36.7	7.83	4.92	3.47	2.24	1.62	1.07					
43.6	33.2	8.62	5.44	3.82	2.46	1.78	1.17					
32.0	45.4	6.29	3.95	2.79	1.80	1.30	0.86					
36.0	40.3	7.06	4.44	3.13	2.02	1.46	0.96					
40.6	35.7	7.96	5.00	3.53	2.27	1.64	1.08					
43.6	33.2	8.62	5.42	3.82	2.46	1.78	1.17					
44.6	32.5	8.74	5.49	3.88	2.50	1.8	1.19					
50.3	28.8	9.82	6.17	4.36	2.81	2.03	1.34					
56.7	25.6		6.94	4.90	3.16	2.28	1.50	0.99				
63.7	22.8		7.79	5.50	3.54	2.56	1.69	1.11	0.83			
71.6	20.2		8.74	6.17	3.97	2.87	1.89	1.24	0.93			
80.3	18.1		9.76	6.89	4.44	3.20	2.12	1.39	1.04	0.85		
94.4	15.4			8.08	5.20	3.75	2.48	1.62	1.22	1.00		
102	14.2			8.69	5.60	4.04	2.67	1.75	1.31	1.08		
119	12.2				6.49	4.69	3.09	2.03	1.52	1.25		
133	10.9				7.24	5.23	3.45	2.26	1.70	1.39		
142	10.2				7.75	5.59	3.69	2.42	1.82	1.49		
169	8.59				9.15	6.60	4.36	2.85	2.14	1.76		
178	8.16				9.61	6.94	4.58	3.00	2.25	1.85		
196	7.38					7.62	5.03	3.30	2.48	2.03		

4-pole LS, LSES and brakes

Three-phase 4-pole LS, LSES

LS FMD	56 M	63 M	71 M									
LS FCR				71 L				80 L				
LSES FCR								80				
	Single-phase 4-pole LS											
FMD	56 MP	63 MP	71 MP									



Selection example

Required power: 0.25 kW
 Required speed: 32 min-1
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: horizontal, foot mounted
 Designation: Cb 3032 i: 45.4 S S M - MI 4p LS 71M 0.25 kW - 400 VY - U.G.

Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3133
LS, LSES, LS brake, LSES brake - IP 55 - CI. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

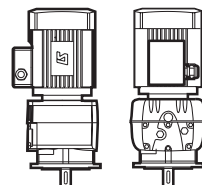
Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3133																
LS, LSES (kW)																
		0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3	4				
Three-phase 4-pole LS, LSES																
min-1	i exact	71			80		90			100		112				
9.17	158	0.85														
10.1	144	0.93														
11.7	124	1.08														
13.1	111	1.20														
14.6	99.4	1.30											0.86			
16.7	87	1.43											0.95			
17.6	82.2	1.49											0.99			
20.9	69.2	1.67											1.11			
22.2	65.3	1.74											1.15			
25.1	57.8	1.89											1.25	0.82		
28.7	50.6			0.90												
29.5	49.1	2.71	1.79													
32.6	44.5	2.98	1.97	0.98												
37.3	38.8	3.41	2.25	1.48								1.11	0.91			
41.0	35.4	3.74	2.47	1.62								1.22	1.00			
47.5	30.6	4.32	2.85	1.87								1.40	1.15	0.95		
53.2	27.2	4.83	3.19	2.09								1.57	1.29	1.06		
59.4	24.4	5.38	3.55	2.33								1.75	1.43	1.18	0.87	
67.9	21.4	6.13	4.05	2.65								1.99	1.63	1.35	0.99	0.82
71.8	20.2	6.47	4.27	2.8								2.10	1.72	1.42	1.04	0.86
85.3	17	7.65	5.05	3.31	2.49	2.04	1.68	1.23	1.02	0.83						
90.5	16	8.11	5.35	3.50	2.63	2.16	1.78	1.30	1.08	0.88						
102	14.2	9.11	6.02	3.94	2.96	2.43	2.01	1.47	1.21	0.99						
117	12.4		6.71	4.40	3.29	2.70	2.23	1.63	1.35	1.11	0.81					
133	10.9		7.36	4.84	3.61	2.97	2.45	1.79	1.48	1.21	0.89					
139	10.4		5.84	3.82	2.87	2.35	1.95 ●									
150	9.67			5.28 ●	3.93 ●	3.23 ●	2.66	1.95	1.61	1.32	0.96					
165	8.79		6.93	4.54	3.41	2.8	2.31 ●									
169	8.57			5.72 ●	4.25 ●	3.50 ●	2.88	2.11	1.75	1.43						
191	7.57												6.18	4.60	3.79	3.12
198	7.34		8.30	5.43	4.09	3.35	2.77	2.02	1.68	1.37	1.00					
226	6.42		9.49	6.21	4.67	3.83	3.17	2.31	1.92	1.57	1.15					
257	5.65			6.96	5.22	4.28	3.54	2.58	2.14	1.75	1.28					
290	4.99	7.39 ●		5.49 ●	4.52 ●	3.72	2.72	2.26	1.84	1.35						
327	4.43	7.61 ●		5.65 ●	4.66 ●	3.83	2.80	2.32	1.90	1.39						
371	3.91	8.48		6.30	5.19	4.27	3.12	2.59	2.12	1.55						
391	3.71	8.72		6.48	5.33	4.39	3.21	2.66	2.18	1.59						
4-pole LS, LSES and brake																
Three-phase 4-pole LS, LSES																
LS FCR		71 L			80 L		90 L			100 L						
LSES FCR					80		90			100						

● MU obligatory

Selection example

Required power: 1.5 kW
 Required speed: 84 min-1
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: V1 vertical; BS flange
 Designation: Cb 3133 i: 17 BS S V1 - MI 4p LSES 90L 1.5 kW LS2/IE2 - 400 VY - U.G.



Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3233
LS, LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3233												
LS, LSES (kW)												
		0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3	5.5
Three-phase 4-pole LS, LSES												
min-1	i exact	71			80		90		100		112	132
7.12	204	1.48	0.97									
8.31	174	1.72	1.14									
9.11	159	1.89	1.25	0.82								
10.1	144	2.09	1.38	0.90								
11.8	123	2.45	1.62	1.06	0.80							
13.3	109	2.75	1.82	1.19	0.89							
14.8	98.2	3.06	2.02	1.32	1.00	0.82						
16.8	86.5	3.48	2.30	1.50	1.13	0.93						
18.6	77.9	3.86	2.55	1.67	1.26	1.03	0.85					
21.1	68.6	4.38	2.90	1.89	1.43	1.17	0.97					
22.6	64.2	4.68	3.09	2.02	1.52	1.25	1.03					
26.0	55.7	5.40	3.57	2.33	1.76	1.44	1.19	0.87				
28.9	50.2	5.93	3.92	2.56	1.93	1.58	1.31					
29.7	48.9			2.66	2.00	1.64	1.36	0.99	0.82			
33.7	43	6.91	4.56	2.99	2.25	1.84	1.52	1.11	0.92			
37.0	39.2	7.56	5.00	3.27	2.46	2.01	1.67	1.22	1.01	0.82		
40.8	35.5	8.33	5.50	3.60	2.71	2.22	1.84	1.34	1.11	0.91		
47.9	30.3	9.73	6.43	4.21	3.16	2.59	2.14	1.57	1.30	1.06		
53.9	26.9		7.21	4.72	3.55	2.91	2.40	1.76	1.45	1.19	0.87	
59.9	24.2		8.00	5.24	3.94	3.23	2.67	1.95	1.61	1.32	0.97	
68.1	21.3		9.06	5.93	4.46	3.65	3.02	2.21	1.83	1.50	1.09	0.83
75.6	19.2		9.99	6.54	4.92	4.03	3.33	2.43	2.02	1.65	1.21	0.9
85.8	16.9			7.20	5.39	4.42	3.65	2.67	2.21	1.81	1.32	1.00
91.7	15.8			7.57	5.64	4.64	3.82	2.79	2.32	1.89	1.39	1.05
106	13.7			8.38	6.23	5.13	4.22	3.09	2.56	2.09	1.53	1.16
120	12			9.12	6.79	5.59	4.60	3.36	2.79	2.28	1.67	1.26
133	10.9			9.77 •	7.27 •	5.98 •	4.93 •	3.60 •	2.99 •	2.44 •	1.79	1.35
134	10.8			6.51	4.90	4.01	3.32	2.43	2.01	1.64		
149	9.72			7.23	5.44	4.46	3.69	2.69	2.23	1.82		
151	9.62				7.86 •	6.47 •	5.32 •	3.89 •	3.23 •	2.64 •	1.93	1.46
161	9.02				8.22 •	6.77 •	5.57 •	4.07 •	3.38 •	2.76 •	2.02	1.52
169	8.57			8.21	6.17	5.06	4.18	3.06	2.53	2.07		
181	8.02			8.77	6.60	5.40	4.47	3.27	2.71	2.21		
190	7.63				9.13 •	7.51 •	6.19	4.52	3.75	3.07	2.24	1.69
208	6.96				7.61	6.23	5.15	3.77	3.12	2.55	1.86	1.41
238	6.1				8.67	7.10	5.87	4.29	3.55	2.91	2.13	1.61
263	5.51				9.6 •	7.86 •	6.50 •	4.75 •	3.93 •	3.22 •	2.35	1.78
297	4.88					8.88 •	7.35 •	5.37 •	4.45 •	3.64 •	2.66	2.02
317	4.57					9.48 •	7.84 •	5.73 •	4.74 •	3.88 •	2.84	2.15
375	3.87						9.26	6.77	5.6	4.59	3.35	2.54

4-pole LS, LSES and brakes

Three-phase 4-pole LS, LSES

LS FCR	71 L	80 L	90 L	100 L	112	132
LSES FCR		80	90	100	112	132

• MU obligatory



Selection example:

Required power:	0.75 kW
Required speed:	20 min-1
Duty factor required by the application:	Kp = 1
Operating position; Mounting form:	Horizontal B5; BS flange
Designation:	Cb 3233 i: 77.9 BS S B5 - MI 4p LSES 80LG 0.75 kW LS2/IE2 - 400 VY - U.G.

Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3333
LS, LSES, LS brake, LSES brake - IP 55 - CI. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting **MI**
Universal mounting **MU**
Input shaft mounting **AP**

Cb 3333

		LS, LSES (kW)													
		0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5	7.5	9
Three-phase 4-pole LS, LSES															
min-1	i exact	71			80		90			100		112	132		
7.23	200	2.75	1.81	1.19	0.89										
8.01	181	3.04	2.01	1.31	0.99	0.81									
8.95	162	3.40	2.24	1.47	1.10	0.90									
10.3	141	3.91	2.58	1.69	1.27	1.04	0.86			Cb 3333					
11.6	125	4.42	2.92	1.91	1.44	1.18	0.97								
12.7	114	4.81	3.17	2.08	1.56	1.28	1.06								
14.3	101	5.44	3.59	2.35	1.77	1.45	1.20	0.88							
16.1	90.1	6.11	4.03	2.64	1.99	1.63	1.35	0.98	0.81						
17.9	80.9	6.81	4.49	2.94	2.21	1.81	1.50	1.10	0.91						
19.5	74.4	7.39	4.88	3.20	2.40	1.97	1.63	1.19	0.99	0.81					
21.9	66.1	8.33	5.50	3.60	2.71	2.22	1.83	1.34	1.11	0.91					
25.2	57.6			4.13	3.11	2.54	2.11	1.54	1.27	1.04					
27.8	52.1			4.57 ●	3.43 ●	2.81 ●	2.33 ●	1.70 ●	1.41 ●	1.15 ●	0.84				
29.8	48.7		7.13	4.67	3.51	2.88	2.38	1.74	1.44	1.18					
33.0	44		7.89	5.17	3.89	3.18	2.63	1.92	1.59	1.30					
36.8	39.4		8.82	5.77	4.34	3.56	2.94	2.15	1.78	1.46	1.06	0.81			
42.4	34.2			6.65	5.00	4.10	3.39	2.48	2.05	1.68	1.23	0.93			
48.0	30.2			7.51	5.65	4.63	3.83	2.80	2.32	1.90	1.39	1.05			
52.2	27.8			8.17	6.15	5.03	4.17	3.04	2.52	2.06	1.51	1.14	0.83		
59.0	24.6			9.25	6.96	5.70	4.72	3.5	2.85	2.33	1.71	1.29	0.94		
66.3	21.9				7.81	6.40	5.29	3.87	3.20	2.62	1.91	1.45	1.05		
73.8	19.6				8.70	7.13	5.90	4.31	3.57	2.92	2.13	1.62	1.17	0.86	
80.2	18.1				9.45	7.74	6.41	4.68	3.88	3.17	2.32	1.76	1.27	0.94	
90.3	16.1					8.72	7.21	5.27	4.36	3.57	2.61	1.98	1.43	1.06	
104	14						8.28	6.05	5.01	4.10	3.00	2.27	1.64	1.21	
115	12.7						9.12 ●	6.66 ●	5.52 ●	4.51 ●	3.30	2.50	1.81	1.34	
116	12.5		9.25	6.96	5.70	4.72	3.45	2.85	2.33						
131	11.1			7.81	6.40	5.29	3.87	3.20	2.62						
132	11					9.94 ●	7.26 ●	6.02 ●	4.92 ●	3.60	2.72	1.97	1.45		
145	9.98						7.95 ●	6.59 ●	5.39 ●	3.94 ●	2.98 ●	2.16	1.59		
146	9.95			8.70	7.13	5.90	4.31	3.57	2.92	2.13	1.62				
158	9.16			9.45	7.74	6.41	4.68	3.88	3.17						
160	9.06						8.51	7.06	5.77	4.22	3.19	2.31	1.70		
178	8.14				8.72	7.21	5.27	4.36	3.57	2.61	1.98				
185	7.85						9.33	7.74	6.33	4.63	3.49	2.53	1.86		
205	7.09						8.28	6.05	5.01	4.10	3.00	2.27	1.64	1.21	
226	6.41					9.15 ●	6.69 ●	5.54 ●	4.53 ●	3.31	2.51	1.82	1.34		
259	5.59						7.68 ●	6.35 ●	5.20 ●	3.80	2.88	2.09	1.54		
287	5.06						8.48 ●	7.02 ●	5.74 ●	4.20 ●	3.18 ●	2.30	1.70		
316	4.59						9.35	7.74	6.33	4.63	3.51	2.54	1.87		
364	3.98							8.93	7.30	5.34	4.05	2.93	2.16		
4-pole LS, LSES and brake															
Three-phase 4-pole LS, LSES															
LS FCR		71 L			80 L		90 L			100 L		112	132		
LSES FCR					80		90			100		112	132		

4-pole LS, LSES and brake

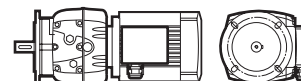
Three-phase 4-pole LS, LSES

LS FCR	71 L	80 L	90 L	100 L	112	132
LSES FCR		80	90	100	112	132

• MU obligatory

Selection example

Required power: 4 kW
 Required speed: 47 min-1
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: Horizontal B52; BS flange
 Designation: Cb 3333 i: 30.2 BS S B52 - MI 4p LSES 112MU 4 kW LS2/IE2 - 400 VY - U.G.



Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3433
LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3433

		LSES (kW)																
		0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30	
		Three-phase 4-pole LSES																
min-1	i exact	80		90			100			112	132			160		180		200
7.11	204	1.72	1.40	1.16	0.85													
8.43	172	2.03	1.66	1.37	1.00	0.83												
9.36	155	2.26	1.85	1.53	1.11	0.92												
10.3	140	2.49	2.04	1.68	1.23	1.02	0.83											
11.2	129	2.70	2.21	1.82	1.33	1.10	0.90											
13.1	111	3.13	2.56	2.12	1.55	1.28	1.05											
14	104	3.36 ●	2.75 ●	2.27	1.66	1.37	1.12	0.82										
16.0	90.7	3.82 ●	3.13 ●	2.59	1.89	1.56	1.28	0.93										
18.1	80.1	4.32 ●	3.53 ●	2.92	2.13	1.76	1.44	1.05	0.80									
20.3	71.4	4.84 ●	3.96 ●	3.27	2.39	1.98	1.62	1.18	0.90									
22.7	63.9	5.39 ●	4.41 ●	3.64	2.66	2.20	1.80	1.32	1.00									
26.5	54.7	6.27 ●	5.13 ●	4.24	3.10	2.56	2.10	1.53	1.16	0.84								
28.8	50.3	6.74	5.51	4.56	3.33	2.75	2.25	1.65	1.25									
34.2	42.5	7.95	6.51	5.38	3.93	3.25	2.66	1.94	1.47									
37.9	38.2	8.81	7.21	5.96	4.35	3.60	2.94	2.15	1.63	1.18	0.87							
41.9	34.6	9.70	7.94	6.56	4.79	3.97	3.24	2.37	1.80	1.30	0.96							
45.5	31.9		8.60	7.11	5.19	4.29	3.51	2.57	1.94	1.41	1.04							
52.9	27.4		9.96	8.23	6.01	4.98	4.07	2.97	2.25	1.63	1.20	1.00	0.82					
56.8	25.5			8.82	6.44	5.33	4.36	3.18	2.41	1.75	1.29	1.07	0.88					
64.8	22.4				7.32	6.06	4.95	3.62	2.74	1.99	1.46	1.22	1.00					
73.3	19.8				8.25	6.83	5.58	4.08	3.09	2.24	1.65	1.38	1.12	0.82				
82.4	17.6				9.22	7.63	6.24	4.56	3.46	2.50	1.84	1.54	1.26	0.92				
91.9	15.8					8.49	6.94	5.07	3.84	2.78	2.05	1.71	1.40	1.02	0.83			
107	13.5					9.86	8.06	5.89	4.46	3.23	2.38	1.99	1.62	1.19	0.96	0.81		
119	12.2						8.86 ●	6.48 ●	4.90 ●	3.55	2.62	2.18	1.78	1.31	1.06	0.89		
134	10.8						9.77 ●	7.14 ●	5.40 ●	3.91	2.88	2.40	1.96	1.44	1.17	0.98		
150	9.67							7.72 ●	5.83 ●	4.22	3.11	2.59	2.12	1.55	1.26	1.06		
169	8.6							8.31 ●	6.28 ●	4.55	3.35	2.79	2.28	1.67	1.35	1.14	0.84 ●	
188	7.69							8.04 ●	6.09 ●	4.41	3.25	2.71	2.21	1.62	1.31	1.10	0.81 ●	
211	6.86						9.73	7.11	5.38	3.90	2.87	2.40	1.96	1.43	1.16	0.98		
233	6.21							7.59 ●	5.74 ●	4.16	3.06	2.56	2.09	1.53	1.24	1.04		
265	5.48							7.41 ●	5.61 ●	4.06	2.99	2.50	2.04	1.49	1.21	1.02		
295	4.91							8.73 ●	6.61 ●	4.79	3.53	2.94	2.40	1.76	1.43	1.20	0.88 ●	
332	4.37							8.63 ●	6.53 ●	4.73	3.48	2.91	2.38	1.74	1.41	1.18	0.87 ●	
371	3.91							8.04 ●	6.09 ●	4.41	3.25	2.71	2.21	1.62	1.31	1.10	0.81 ●	
4-pole LS, LSES and brakes		Three-phase 4-pole LS, LSES																
LS FCR		80 L		90 L			100 L			112	132			160				
LSES FCR		80		90			100			112	132			160				
LS, LSES FCPL														160		180 200		

4-pole LS, LSES and brakes

Three-phase 4-pole LS, LSES

LS FCR	80 L	90 L	100 L	112	132	160	
LSES FCR	80	90	100	112	132	160	
LS, LSES FCPL						160	180 200

• MU obligatory



Selection example

Required power: 4 kW
 Required speed: 28 min-1
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: Horizontal B7; foot mounted
 Designation: Cb 3433 I: 50.3 S S B7 - MI 4p LSES 112MU LS2/IE2 4 kW - 400 VY - U.G.

Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3533
LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting **MI**

Universal mounting **MU**

Input shaft mounting **AP**

Cb 3533

		LSES (kW)																		
		0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30			
		Three-phase 4-pole LSES																		
min-1	i exact	80		90		100		112	132			160		180		200				
7.2	201	3.32 ●	2.72 ●	2.24	1.64	1.35	1.11	0.81					Cb 3533							
8.39	173	3.86 ●	3.16 ●	2.61	1.90	1.57	1.29	0.94												
9.13	159	4.19 ●	3.43 ●	2.83	2.07	1.71	1.40	1.02												
10.5	138	4.80 ●	3.93 ●	3.25	2.37	1.96	1.60	1.17										0.89		
11.9	122	5.44 ●	4.45 ●	3.67	2.68	2.22	1.81	1.32										1.00		
13.2	110	6.05 ●	4.94 ●	4.08	2.98	2.46	2.02	1.47										1.11	0.81	
14.9	97.5	6.78 ●	5.54 ●	4.58	3.34	2.76	2.26	1.65										1.25	0.90	
16.2	89.3	7.39 ●	6.04 ●	4.99 ●	3.64 ●	3.01 ●	2.46 ●	1.80										1.36	0.99	
18.8	77.2	8.52 ●	6.97 ●	5.75 ●	4.2 ●	3.47 ●	2.84 ●	2.07										1.57	1.14	0.84
20.8	69.8	9.10 ●	7.46 ●	6.15 ●	4.49 ●	3.71 ●	3.04 ●	2.22										1.68	1.21	0.89
23.6	61.4	9.90 ●	8.13 ●	6.69 ●	4.88 ●	4.04 ●	3.30 ●	2.41 ●	1.82 ●	1.32	0.97	0.81								
25.6	56.6		8.52 ●	7.00 ●	5.11 ●	4.23 ●	3.46 ●	2.53 ●	1.91 ●	1.38	1.02	0.85								
29.2	49.7			8.76	6.39	5.29	4.32	3.16	2.39	1.73	1.28									
34.0	42.7				7.41	6.13	5.02	3.66	2.77	2.01	1.48									
37.0	39.2				8.05	6.66	5.44	3.98	3.01	2.18	1.61									
42.4	34.2				9.20	7.61	6.22	4.55	3.44	2.49	1.84	1.53	1.25	0.92						
48.1	30.1					8.60	7.03	5.13	3.89	2.81	2.07	1.73	1.41	1.03	0.84					
53.6	27.1					9.55	7.80	5.70	4.32	3.12	2.30	1.92	1.57	1.15	0.93					
60.2	24.1						8.73	6.38	4.83	3.50	2.58	2.15	1.76	1.28	1.04	0.88				
65.7	22.1						9.50 ●	6.94	5.26	3.80	2.80	2.34	1.91	1.40	1.13	0.95				
76.0	19.1							7.56	5.73	4.14	3.05	2.55	2.08	1.52	1.24	1.04				
84.1	17.2							8.78	6.65	4.81	3.55	2.96	2.42	1.77	1.43	1.20	0.89			
95.6	15.2							9.61 ●	7.27 ●	5.27	3.88	3.24	2.64	1.93	1.57	1.32	0.97			
104	14								7.66 ●	5.55	4.09	3.41	2.79	2.04	1.65	1.39	1.02			
117	12.4								8.46 ●	6.12	4.51	3.76	3.08	2.25	1.82	1.53	1.13			
131	11.1								9.04 ●	6.55	4.82	4.02	3.29	2.41	1.95	1.64	1.21			
146	9.94											4.44	3.63	2.65	2.15	1.81	1.33			
160	9.07											4.71	3.85	2.82	2.29	1.92	1.41			
183	7.92											5.15	4.21	3.08	2.50	2.10	1.54			
202	7.18								7.66 ●	5.55	4.09	3.41	2.79	2.04	1.65	1.39	1.02			
227	6.38								8.46 ●	6.13	4.51	3.76	3.08	2.25	1.83	1.53	1.13			
255	5.7								9.04 ●	6.54	4.82	4.02	3.29	2.40	1.95	1.64	1.21			
284	5.1											5.28	4.31	3.16	2.56	2.15	1.58			
311	4.66											5.55	4.53	3.32	2.69	2.26	1.66			
356	4.07											5.94	4.86	3.55	2.88	2.42	1.78			
4-pole LS, LSES and brakes																				
Three-phase 4-pole LS, LSES																				
LS FCR		80 L		90 L		100 L		112	132			160								
LSES FCR		80		90		100		112	132			160								
LS, LSES FCPL												160		180		200				

4-pole LS, LSES and brakes

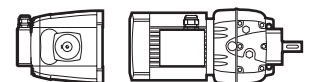
Three-phase 4-pole LS, LSES

LS FCR	80 L	90 L	100 L	112	132	160		
LSES FCR	80	90	100	112	132	160		
LS, LSES FCPL						160	180	200

• MU obligatory

Selection example

Required power: 15 kW
 Required speed: 60 min-1
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: Horizontal B7; foot mounted
 Designation: Cb 3533 i: 24.1 S S B7 - MI 4p LSES 160L 15 kW LS2/IE2 - 400 VA - U.G.



Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3633
LSES, LS brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting **MI**
Universal mounting **MU**
Input shaft mounting **AP**

Cb 3633

		LSES (kW)																	
		1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30	37	45	55 ¹	
		Three-phase 4-pole LSES																	
min-1	i exact	90			100		112	132			160			180		200	225		250
5.8	252	2.56	1.86	1.54	1.26	0.92													
6.7	216	2.98	2.17	1.79	1.47	1.07	0.81												
7.3	199	3.24	2.36	1.95	1.60	1.17	0.88												
8.4	173	3.72	2.71	2.24	1.83	1.34	1.02												
9.5	153	4.22	3.08	2.56	2.08	1.52	1.15	0.83											
10.6	137	4.69	3.42	2.85	2.32	1.69	1.28	0.93											
11.9	122	5.26	3.84	3.20	2.60	1.90	1.44	1.04		Cb 3633									
12.9	112				2.83 ●	2.07	1.56	1.13	0.83										
15.0	96.6				3.26 ●	2.38	1.80	1.31	0.96	0.80									
16.6	87.3				3.60 ●	2.63	1.99	1.44	1.06	0.89									
18.9	76.9				4.08 ●	2.98 ●	2.26 ●	1.63	1.20	1.00	0.82								
20.5	70.8				4.42 ●	3.23 ●	2.44 ●	1.77	1.30	1.09	0.89								
23.0	63				4.96 ●	3.62 ●	2.74 ●	1.98	1.46	1.22	1.00								
25.8	56.2				5.54 ●	4.04 ●	3.06 ●	2.22	1.63	1.36	1.11	0.81							
28.8	50.4				6.16 ●	4.50 ●	3.41 ●	2.47●	1.82●	1.52	1.24	0.91							
33.9	42.8				6.80	4.97	3.75	2.72	2.00	1.67	1.36	1.00	0.81						
37.2	39				7.83	5.72	4.33	3.13	2.31	1.93	1.57	1.15	0.93						
42.0	34.5				8.75	6.39	4.84	3.50	2.58	2.15	1.76	1.29	1.04	0.88					
46.6	31.1				9.60 ●	7.01	5.30	3.84	2.83	2.36	1.93	1.41	1.14	0.96					
52.3	27.7					7.76	5.87	4.25	3.13	2.61	2.13	1.56	1.27	1.06					
56.9	25.5					8.35	6.31	4.57	3.37	2.81	2.29	1.68	1.36	1.14					
66.2	21.9					9.54 ●	7.21 ●	5.22	3.85	3.21	2.62	1.92	1.56	1.31	0.96				
72.5	20						7.78 ●	5.63	4.15	3.46	2.83	2.07	1.68	1.41	1.04	0.84			
81.9	17.7						8.66 ●	6.27	4.62	3.85	3.15	2.30	1.87	1.57	1.15	0.94			
96.0	15.1						9.95 ●	7.20	5.30	4.42	3.62	2.65	2.15	1.80	1.33	1.08	0.89		
107	13.5							7.98	5.88	4.90	4.01	2.93	2.38	2.00	1.47	1.20	0.98	0.81 ●	
120	12.1									5.40	4.41	3.23	2.62	2.20	1.62	1.32	1.08	0.89 ●	
133	10.9									5.90	4.82	3.53	2.86	2.40	1.77	1.44	1.18	0.97 ●	
151	9.63									6.58	5.38	3.94	3.19	2.68	1.97	1.61	1.32	1.09 ●	
170	8.53									7.33	5.99	4.38	3.56	2.99	2.20	1.79	1.47	1.21 ●	
190	7.62									8.10	6.62	4.84	3.93	3.30	2.43	1.98	1.63	1.34 ●	
203	7.15										7.00 ●	5.12 ●	4.15 ●	3.49 ●	2.57	2.09	1.72	1.42 ●	
236	6.15										7.73	5.66	4.59	3.85	2.83	2.30	1.90	1.56 ●	
261	5.56										8.36	6.12	4.96	4.17	3.06	2.49	2.05	1.69 ●	
295	4.91										9.18	6.72	5.45	4.57	3.36	2.74	2.25	1.85 ●	
334	4.34										10.04	7.35	5.96	5.00	3.68	3.00	2.47	2.03 ●	
374	3.88										10.12	7.40	6.00	5.04	3.71	3.02	2.49	2.05 ●	
398	3.64										9.49 ●	6.94 ●	5.63 ●	4.73 ●	3.48	2.83	2.33	1.92 ●	
452	3.21										9.37 ●	6.86 ●	5.56 ●	4.67 ●	3.44	2.80	2.30	1.90 ●	
4-pole LS, LSES and brakes		Three-phase 4-pole LS, LSES																	
LS FCR		90 L			100 L		112	132			160								
LSES FCR		90			100		112	132			160								
LS, LSES FCPL											160		180		200	225		250	

4-pole LS, LSES and brakes

Three-phase 4-pole LS, LSES

LS FCR	90 L	100 L	112	132	160				
LSES FCR	90	100	112	132	160				
LS, LSES FCPL					160	180	200	225	250

1. LS B35 obligatory

• MU obligatory



Selection example

Required power: 37 kW
 Required speed: 105 min-1
 Duty factor required by the application: Kp = 1
 Operating position; Mounting form: Horizontal B7; foot mounted
 Designation: Cb 3633 i: 13.5 S S B7 - MI 4p LSES 225ST 37 kW LS2/IE2 - 400 VA - U.G.

Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3733
LSES IE2, LS IE1 brake, LSES brake - IP 55 - CI. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting **MI**

Universal mounting **MU**

Input shaft mounting **AP**

Cb 3733

LSES (kW)

		1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30	37	45	55'	75'
Three-phase 4-pole LSES																			
min ⁻¹	i exact	90			100		112	132			160		180		200	225		250	280
5.9	244	6.07	4.43	3.70	2.99	2.18	1.65	1.20	0.88										
6.7	217	6.82	4.97	4.14	3.36	2.45	1.86	1.34	0.99	0.83									
7.3	198	7.48	5.45	4.54	3.68	2.69	2.04	1.47	1.09	0.91									
8.3	175	8.46	6.17	5.14	4.17	3.04	2.30	1.67	1.23	1.03	0.84								
9.2	158				4.63 ●	3.38	2.56	1.85	1.36	1.14	0.93								
10.3	141				5.19 ●	3.79	2.87	2.08	1.53	1.28	1.04		Cb 3733						
11.2	129				5.63 ●	4.11	3.11	2.25	1.66	1.38	1.13	0.83							
13.1	111				6.54 ●	4.78 ●	3.62 ●	2.62	1.93	1.61	1.31	0.96							
14.2	102				7.12 ●	5.20 ●	3.94 ●	2.85	2.10	1.75	1.43	1.05	0.85						
16.1	89.9				8.03 ●	5.86 ●	4.44 ●	3.21	2.37	1.97	1.61	1.18	0.96	0.80					
18.9	76.8				9.29 ●	6.78 ●	5.13 ●	3.71	2.74	2.28	1.86	1.36	1.11	0.93					
21.2	68.3					7.32 ●	5.53 ●	4.00	2.95	2.46	2.01	1.47	1.19	1.00					
23.7	61.2								2.63	2.15	1.57	1.27	1.07						
26.2	55.4								2.78	2.27	1.66	1.35	1.13	0.83					
29.7	48.8								2.99	2.44	1.79	1.45	1.22	0.90					
33.6	43.2								3.20	2.62	1.92	1.55	1.31	0.96					
36.1	40.2				9.93	7.51	5.44	4.00	3.34	2.73	2.00	1.62	1.36						
37.5	38.7									2.82 ●	2.06 ●	1.67 ●	1.41 ●	1.03	0.84				
39.9	36.3									2.87 ●	2.10 ●	1.71 ●	1.43 ●	1.05	0.86				
40.3	36					8.79	6.36	4.69	3.91	3.19	2.34	1.90	1.59						
45.3	32									3.10 ●	2.27 ●	1.84 ●	1.54 ●	1.13	0.92				
45.6	31.8						7.78	5.73	4.78	3.90	2.86	2.32	1.95						
51.1	28.4						8.90	6.55	5.47	4.47	3.27	2.65	2.23	1.64	1.33 ●				
57.5	25.2						9.87	7.27	6.06	4.95	3.62	2.94	2.47	1.82	1.48 ●				
64.2	22.6							7.98	6.66	5.44	3.98	3.23	2.71	1.99	1.62	1.34	1.10 ●		
72.1	20.1							8.81	7.35	6.00	4.39	3.56	2.99	2.20	1.79	1.47	1.21 ●		
81.5	17.8							9.78	8.15	6.66	4.88	3.95	3.32	2.44	1.99	1.64	1.35 ●		
92.4	15.7								9.11	7.44	5.45	4.42	3.71	2.73	2.22	1.83	1.51 ●		
105	13.8									8.31	6.08	4.93	4.14	3.05	2.48	2.04	1.68 ●		
119	12.2									9.27	6.78	5.50	4.62	3.40	2.77	2.28	1.87 ●		
132	11										7.38	5.98	5.03	3.70	3.01	2.48	2.04 ●	1.50 ●	
150	9.64										8.31	6.74	5.66	4.16	3.39	2.79	2.30 ●	1.68 ●	
168	8.62										9.16	7.43	6.24	4.59	3.74	3.08	2.53 ●	1.86 ●	
189	7.68											8.22	6.90	5.08	4.14	3.40	2.80 ●	2.06 ●	
210	6.9											9.02	7.58			4.54	3.73	3.08 ●	2.26 ●
240	6.05											10.13	8.51			5.10	4.19	3.45 ●	2.53 ●
258	5.63											7.17	6.02	4.43	3.61	2.97	2.45 ●	1.80 ●	
295	4.91											8.16	6.85	5.04	4.11	3.38	2.79 ●	2.04 ●	
330	4.39											9.07	7.62	5.61	4.57	3.76	3.10 ●	2.27 ●	
371	3.91												8.50	6.25	5.09	4.19	3.45 ●	2.53 ●	
412	3.52															5.62	4.63	3.81 ●	2.80 ●
471	3.08															6.36	5.24	4.31 ●	3.16 ●

4-pole LS, LSES and brakes

Three-phase 4-pole LS, LSES

LS FCR	90 L	100 L	112	132	160					
LSES FCR	90	100	112	132	160					
LS, LSES FCPL						160	180	200	225	250 280

1. LS B35 obligatory

• MU obligatory

Selection example

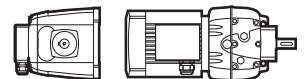
Required power: 45 kW

Required speed: 70 min⁻¹

Duty factor required by the application: Kp = 1.4

Operating position; Mounting form: Horizontal B7; foot mounted

Designation: Cb 3733 i: 20.1 S S B7 - MI 4p LS 225MR 45 kW LS2/IE2 - 400 VA - U.G.



Electromechanical products

Compabloc 3000

Selection

Classes
I, II, III
(kp = 1, 1.4, 2)

Cb 3833
LSES IE2, LS IE1 brake, LSES brake - IP 55 - Cl. F
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 3833																											
LSES (kW)																											
<table><tr><th>7.5</th><th>9</th><th>11</th><th>15</th><th>18.5</th><th>22</th><th>30</th><th>37</th><th>45</th><th>55'</th><th>75'</th><th>90'</th><th>110'</th></tr></table>															7.5	9	11	15	18.5	22	30	37	45	55'	75'	90'	110'
7.5	9	11	15	18.5	22	30	37	45	55'	75'	90'	110'															
Three-phase 4-pole LSES 4p																											
min ⁻¹	i exact	132		160		180		200	225		250	280		315													
6.6	220	1.47	1.23	1.00																							
7.4	196	1.64	1.37	1.12	0.82																						
7.9	184	1.76	1.47	1.20	0.88																						
8.8	164	1.97	1.64	1.34	0.98	0.79																					
9.9	146	2.22	1.85	1.51	1.11	0.90																					
11.2	130	2.48	2.07	1.69	1.24	1.00	0.84																				
12.6	115	2.79	2.33	1.90	1.39	1.13	0.95	Cb 3833																			
14.1	103	3.11	2.59	2.12	1.55	1.26	1.05																				
15.8	92	3.48	2.90	2.37	1.73	1.40	1.18	0.87																			
17.8	81.5	3.91	3.26	2.66	1.95	1.58	1.33	0.98	0.8																		
20.2	71.7	4.43	3.69	3.02	2.21	1.79	1.50	1.11	0.9																		
23.0	63.1	5.02	4.18	3.42	2.50	2.03	1.70	1.25	1.02	0.84																	
26.0	55.7	5.67	4.73	3.86	2.83	2.29	1.93	1.42	1.15	0.95	0.78 ●																
28.7	50.5	6.24	5.20	4.25	3.11	2.52	2.12	1.56	1.27	1.04	0.86 ●																
32.9	44.1	7.13						1.78	1.45	1.19	0.98 ●																
33.3	43.6		2.87	2.35	1.72	1.39	1.17																				
36.8	39.4	7.95						1.98	1.62	1.33	1.10 ●	0.80 ●															
37.3	38.9		3.57	2.92	2.14	1.73	1.46																				
41.3	35.1	8.90						2.22	1.81	1.49	1.23 ●	0.90 ●															
42.2	34.4		4.70	3.84	2.81	2.28	1.91																				
45.9	31.6	9.87							2.01	1.65	1.36 ●	1.00 ●	0.83 ●														
47.1	30.8		6.45	5.27	3.86	3.13	2.63	1.93																			
52.3	27.7								2.28	1.88	1.55 ●	1.14 ●	0.95 ●	0.78 ●													
52.7	27.5		7.47	6.11	4.47	3.63	3.04	2.24																			
59.2	24.5		8.89	7.27	5.32	4.32	3.62	2.66	2.17	1.78	1.47 ●																
66.2	21.9		9.88	8.08	5.92	4.80	4.03	2.96	2.41	1.98	1.63 ●																
74.4	19.5			8.49	6.22	5.04	4.23	3.11	2.53	2.08	1.71 ●	1.26 ●	1.05 ●	0.86 ●													
83.3	17.4			9.74	7.13	5.78	4.86	3.57	2.90	2.39	1.96 ●	1.44 ●	1.20 ●	0.98 ●													
94.2	15.4				7.58	6.15	5.16	3.80	3.09	2.54	2.09 ●	1.53 ●	1.28 ●	1.05 ●													
106	13.7				8.50	6.90	5.79	4.26	3.46	2.85	2.34 ●	1.72 ●	1.43 ●	1.17 ●													
116	12.5				8.88	7.20	6.05	4.45	3.62	2.97	2.45 ●	1.79 ●	1.49 ●	1.22 ●													
132	11					8.11	6.81	5.01	4.08	3.35	2.76 ●	2.02 ●	1.68 ●	1.37 ●													
146	9.96					8.77	7.37	5.42	4.41	3.62	2.98 ●	2.19 ●	1.82 ●	1.49 ●													
166	8.75					9.65	8.11	5.96	4.85	3.99	3.28 ●	2.40 ●	2.00 ●	1.64 ●													
179	8.11					9.92	8.34		4.98	4.10	3.37 ●	2.47 ●	2.06 ●	1.69 ●													
209	6.95						9.80		5.86	4.82	3.96 ●	2.91 ●	2.42 ●	1.98 ●													
229	6.33								6.29	5.17	4.25 ●	3.12 ●	2.60 ●	2.13 ●													
261	5.55							9.08	7.39	6.08	5.00 ●	3.67 ●	3.06 ●	2.50 ●													
289	5.01							9.85	8.02	6.60	5.43 ●	3.99 ●	3.32 ●	2.72 ●													
330	4.4								8.91	7.33	6.02 ●	4.42 ●	3.68 ●	3.01 ●													
355	4.08								8.95	7.36	6.06 ●	4.45 ●	3.70 ●	3.03 ●													
415	3.49								9.30	7.65	6.30 ●	4.62 ●	3.85 ●	3.15 ●													
456	3.18								8.01	6.59	5.43 ●	3.98 ●	3.32 ●	2.72 ●													
503	2.88								9.10	7.49	6.17 ●	4.53 ●	3.77 ●	3.08 ●													
4-pole LS, LSES and brakes																											
Three-phase 4-pole LS, LSES																											
LS FCR		132		160																							
LSES FCR		132		160																							
LS, LSES FCPL				160		180		200	225		250	280		NC													

4-pole LS, LSES and brakes

Three-phase 4-pole LS, LSES

LS FCR	132	160											
LSES FCR	132	160											
LS, LSES FCPL		160	180	200	225	250	280	315	355	400	450	500	NC

1. LS B3 obligatory

NC : Consult Leroy-Somer

● MU obligatory



Selection example

Required power:	45 kW
Required speed:	29 min ⁻¹
Duty factor required by the application:	Kp = 1
Operating position; Mounting form:	Horizontal B7; foot mounted
Designation:	Cb 3833 i: 50.5 S S B7 - MI 4p LSES225MR 45 kW LS2/IE2 - 400 VΔ - U.G.