

## Drive systems COMPABLOC 3000 / LS, LSES

Selection guide

4787 en - 2012.09 / b

# Electromechanical products

## Compabloc 3000

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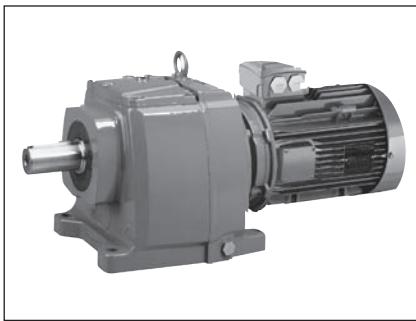
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# Electromechanical products

## 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 ( $\text{min}^{-1}$ ). 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 <b>S</b> , <b>BT</b> or with flanges <b>BS</b> , <b>BD</b> or <b>BR</b> . 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 V $\Delta$ three-phase and 230 V single-phase - fan cover made of composite material (80 to 100) or pressed steel ( $\geq 112$ ), 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 ( $\geq 132$ ) 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 $\mu\text{m}$ )

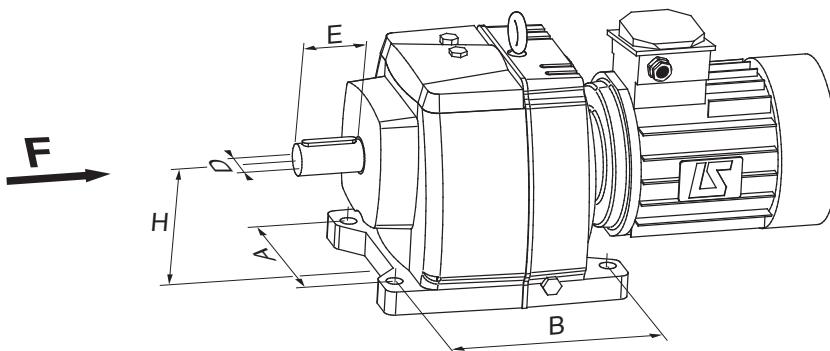
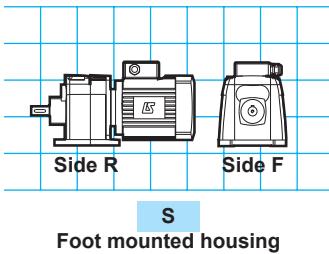
# Electromechanical products

## Compabloc 3000

### Mounting - Operating positions

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

#### Definition of mounting form: S



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

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

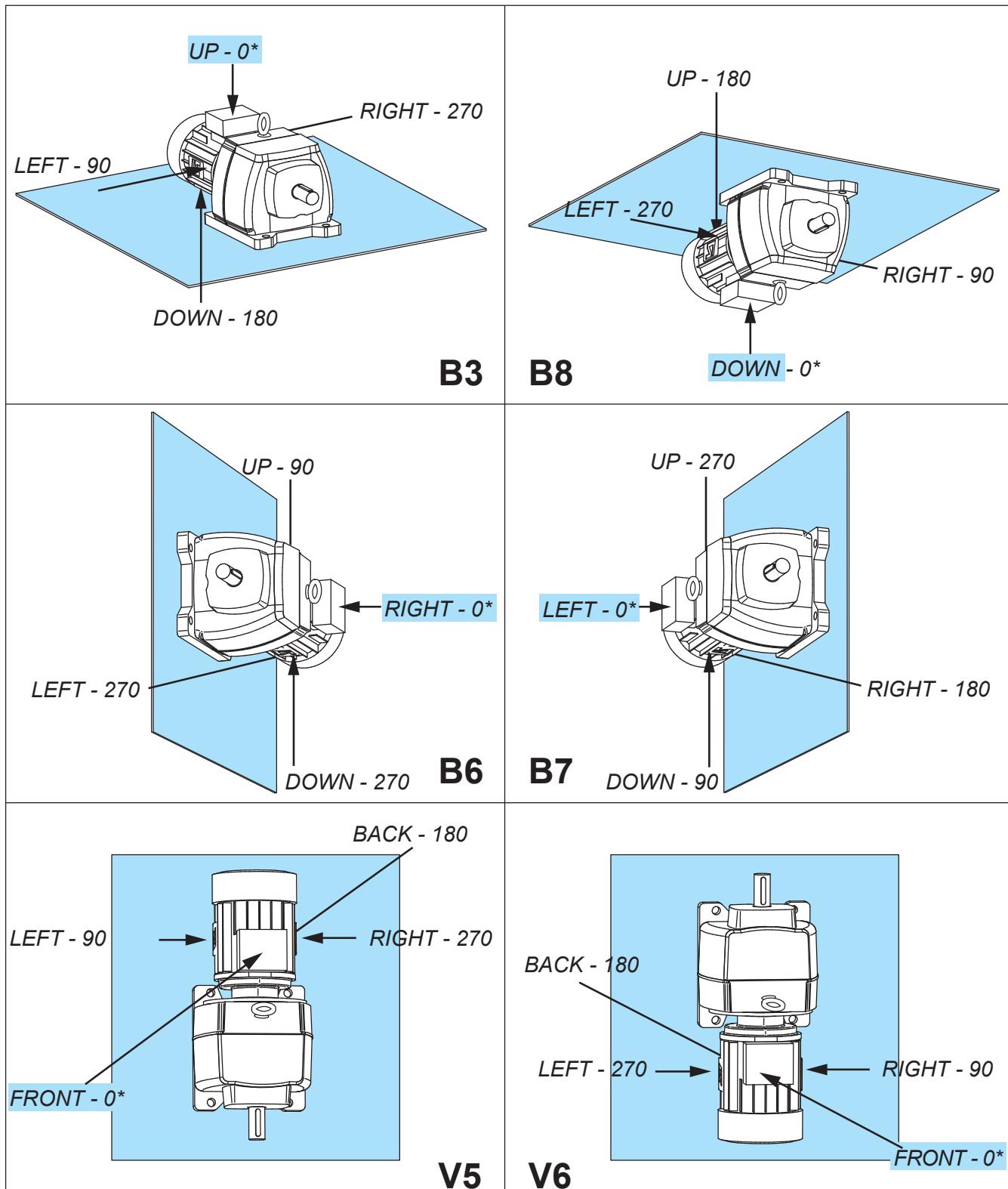
# Electromechanical products

## 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

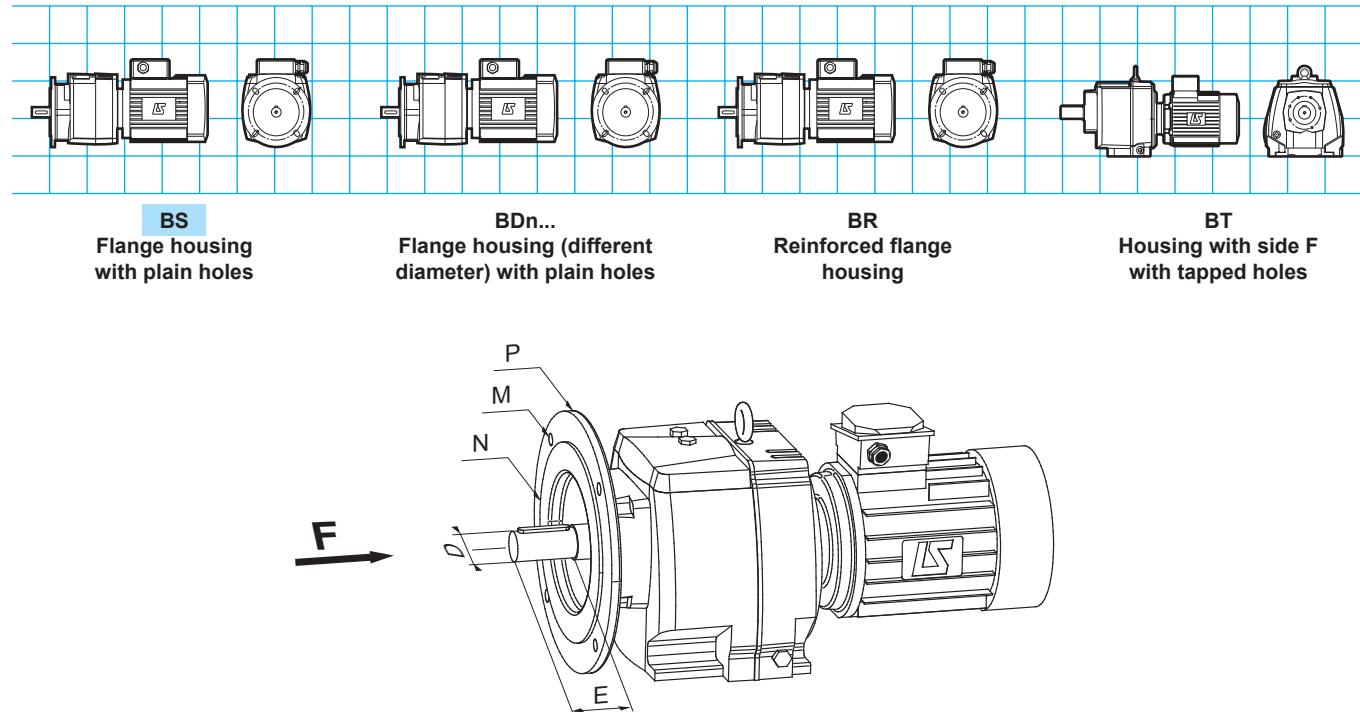
# Electromechanical products

## 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**



Compabloc	1-stage gearbox																	
	BS				BD1			BD2			BD3							
Compabloc	ØD	E	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

Compabloc	Multi-stage gearbox																	
	BS				BD1			BD2			BD3							
Compabloc	ØD	E	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	-	-	-	-

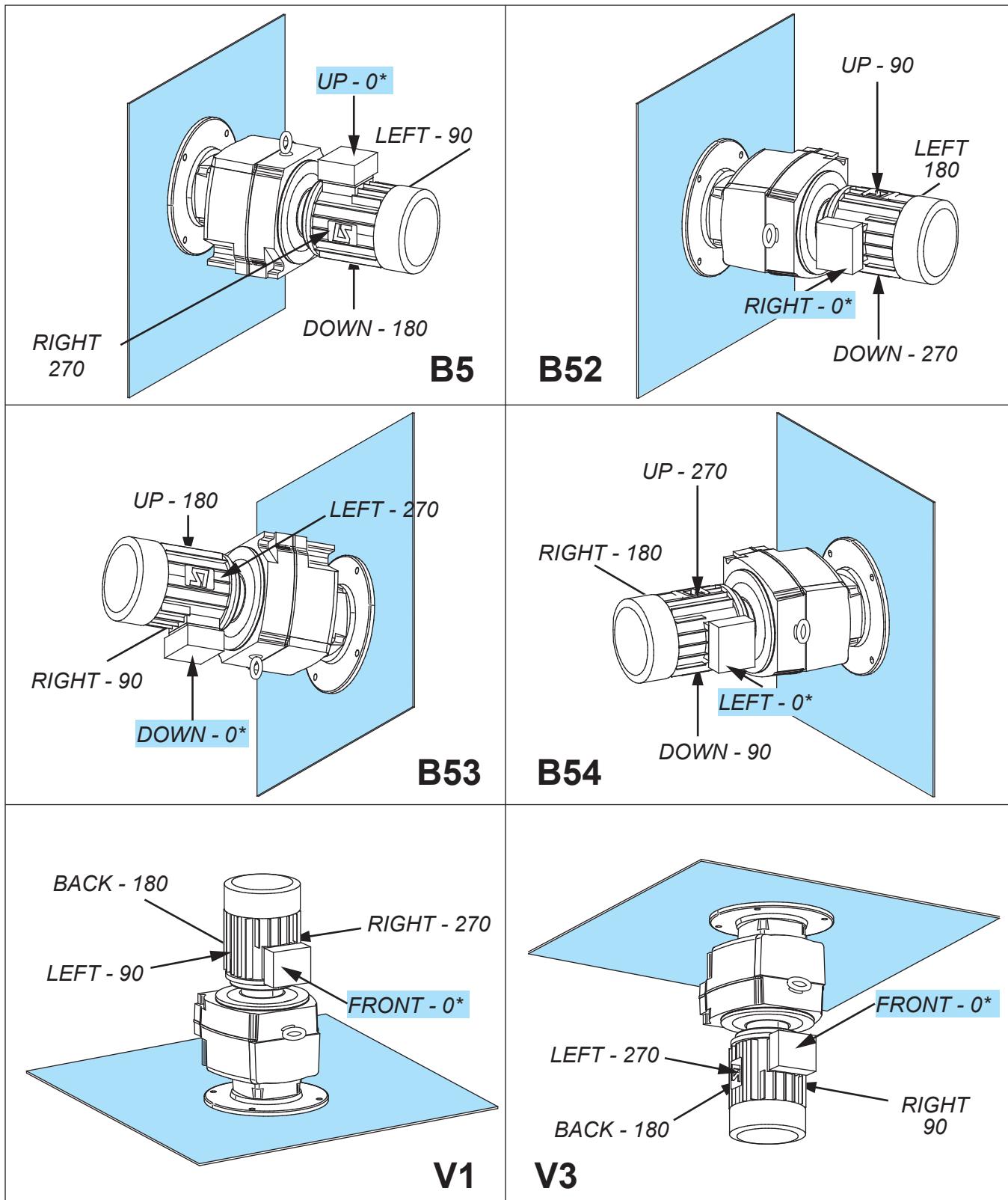
# Electromechanical products

## 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.

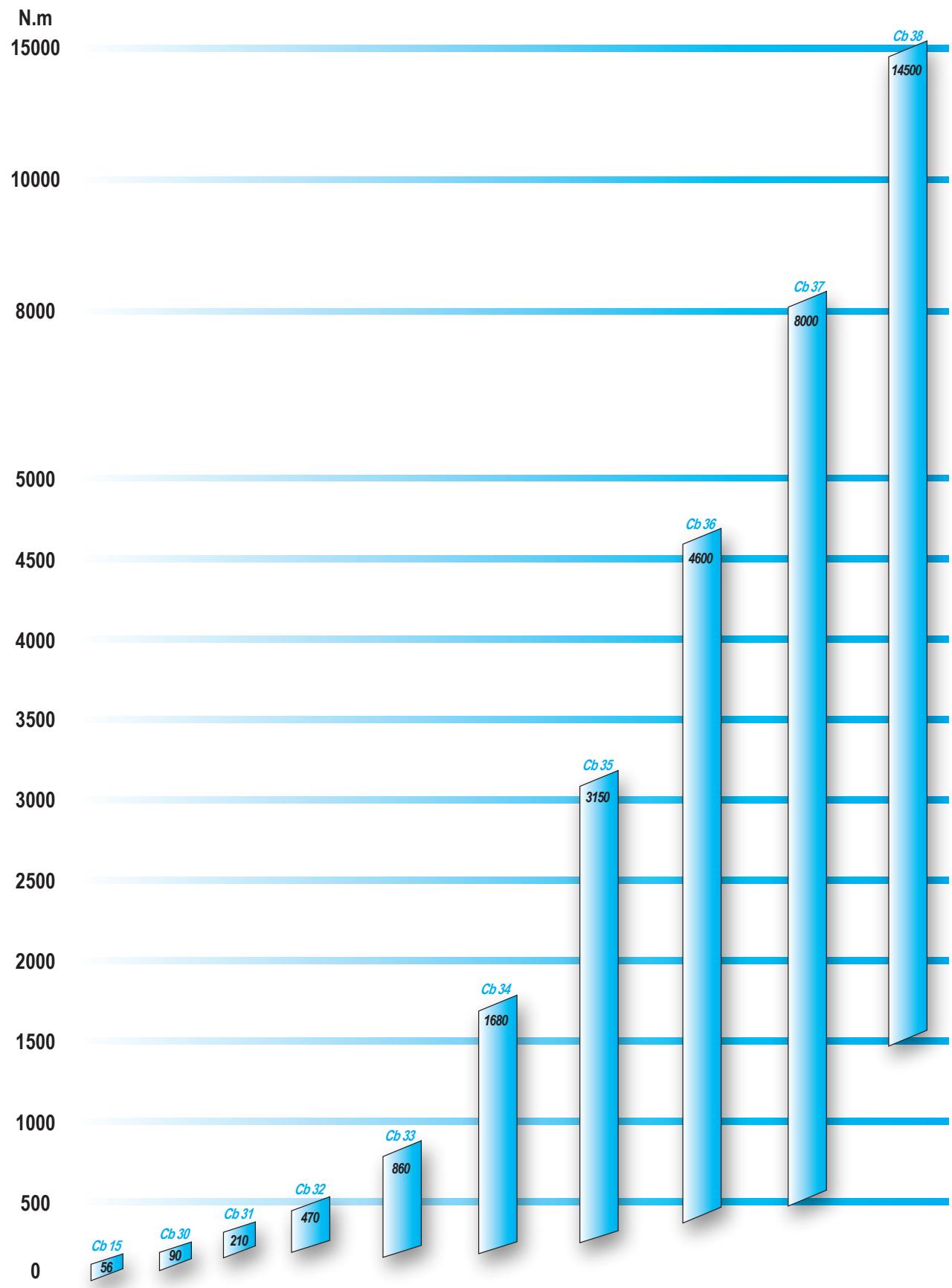


\* : Std terminal box

# Electromechanical products

## Compabloc 3000

### General information - Ranges



# Electromechanical products

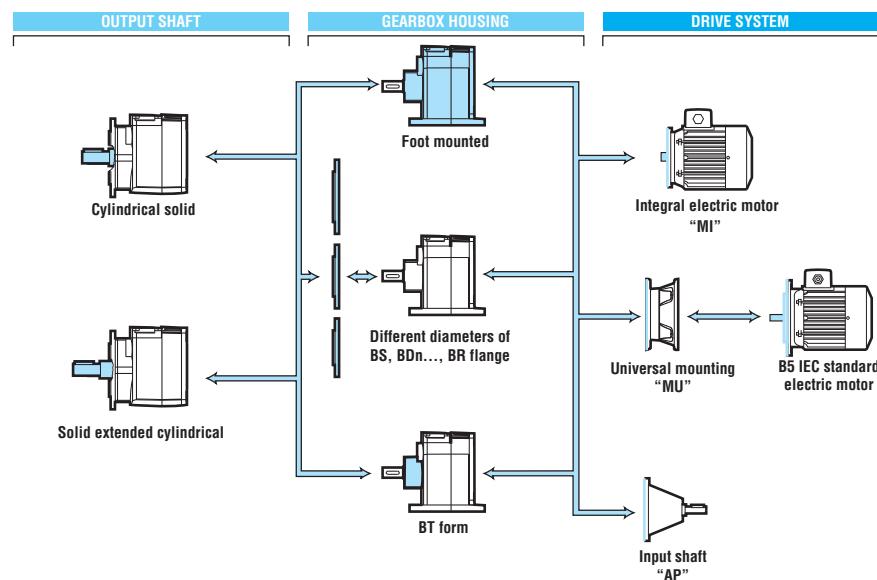
## Compabloc 3000

### 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 n	Mains voltage and frequency	Application

#### Example of coding:

Compabloc 3333 with flange 4 kW, 47 min<sup>-1</sup>, class I

#### Designation:

Cb 3333 i:30.2 BS S B52 MI 4P

#### Code:

473 8378

LSES 112 MU 4 kW LS2/IE2 230/400V 50 Hz UG

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

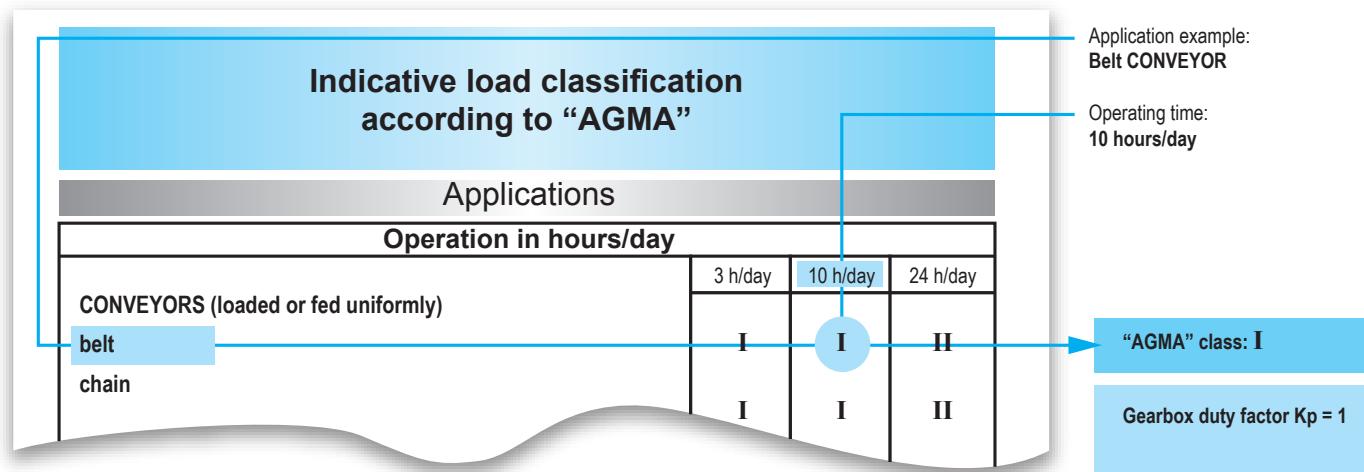
The selection of a gearbox or a geared motor should take account of the application. Some of these applications are listed in the indicative "AGMA" load classification, on the next page.

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

### 1<sup>st</sup> case – Your application is listed

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



### 2<sup>nd</sup> 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	

# Electromechanical products

## Compabloc 3000

### List of applications

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
<b>AGITATORS</b>				dough mixers				padding calenders			
liquids and solids				extruding machines				reelers (except drum)			
liquids with variable density				meat choppers				soap milling machines			
pure liquids	-	-	-					spinning machines		-	
semi-liquids, variable density			*					thread preparation machines:			
<b>BREWERIES, DISTILLERIES</b>								washing machines			
boilers, continuous duty								weaving looms			
bottling machines											
brewing vats, continuous duty											
cookers, continuous duty											
scaling hoppers:											
frequent starts											
<b>CANE KNIVES</b>											
<b>SIEVES</b>											
rotary											
stone washer with water circulation											
<b>DREDGERS</b>											
cable winding drums			-								
conveyors											
cutting head control			*								
handling winches			-								
pumps											
service winches			-								
shaker control			*								
sieve control			*								
<b>CLARIFIERS</b>											
<b>SORTERS, GRADERS</b>											
<b>COMPRESSORS</b>											
centrifugal											
<b>CONVEYORS (loaded or fed non-uniformly)</b>											
heavy duty:											
apron											
assembly											
belt											
bucket											
chain											
furnace											
reciprocating			*								
removal			-								
roller											
scraper											
screw											
vibrator			*								
<b>CONVEYORS (loaded or fed uniformly)</b>											
apron											
assembly											
belt											
bucket											
chain											
furnace											
scraper											
screw											
<b>CONTROL (vehicle)</b>											
<b>ELEVATORS</b>											
buckets:											
continuous load											
heavy load											
uniform load											
centrifugal unloading											
escalators											
gravity unloading											
hoist for building materials			-								
<b>COOLING TOWERS</b>	-	-	-								
<b>CRANES AND LIFTING</b>											
bucket winches	-	-	-								
hoisting gear	-	-	-								
moving bridge	-	-	-								
moving truck	-	-	-								
<b>FEEDING (attachment)</b>											
belt											
disks											
lattice											
reciprocating				*							
screw											
<b>FOOD AND BEVERAGE INDUSTRY</b>											
beet choppers											
cereal cookers											

\* : 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 V $\Delta$  from 0.75 to 110 kW LS2/IE2 - U.G.

MI

MU

AP

**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.

#### 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 3-ph 0.06->0.55 kW	5 5	- 5	5 5	- 5	- -	- -	- -
MI LSES	3-ph 0.75-> 9 kW 11 --> 45 kW	5 -	5 2	- -	5 -	2 2	2 2	2 2
MI LS FMD	1-ph 0.06->0.25 kW 3-ph 0.06->0.25 kW	- 5	- 5	5 5	- -	- -	- -	- -
MI LS FCR	0.25 --> 9 kW 11 - 15 kW	5 -	5 2	- -	5 -	2 2	2 2	2 1
MI LSES FCR	0.75 --> 11 kW	-	-	5	5	2	2	2
MI LS, LSES FCPL	11 --> 75 kW	-	-	-	-	-	-	-
MU LS	1-ph 0.06 -->0.25 kW 3-ph 0.06 -->0.55 kW	5 5	- 5	5 5	- 5	- 2	2 2	2 2
MU LSES	3-ph 0.75 -->9 kW 11 --> 30 kW 37 - 45 kW	5 - -	5 2	- -	5 2	2 1	2 1	1 1
MU LS FCR	0.25 --> 9 kW 11 - 15 kW	5 -	5 1	- -	5 5	2 1	2 1	2 1
MU LSES FCR	0.75 --> 11 kW	-	-	5	1	1	1	1
MU LS, LSES FCPL	11 --> 45 kW	-	-	-	-	-	-	-
FCPL	55 <sup>1</sup> --> 90 kW <sup>1</sup>	-	-	-	-	-	-	-

1. B35 motor obligatory

#### Pages of dimensions corresponding to mounting

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

#### Options

Input 4p / MI-MU	Electrical options				Mechanical options			Brake options		
	230/400V	400V $\Delta$	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 <sup>1</sup> --> 110 kW <sup>1</sup> 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 <sup>1</sup> --> 90 kW <sup>1</sup>									

1. B35 motor obligatory

DG

2 WD

<

5 WD

<

10 WD

<

15 WD

<

To be agreed

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

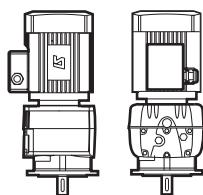
Classes  
I, II, III  
(kp = 1, 1.4, 2)

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

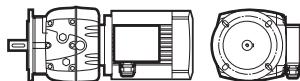
Classes  
I, II, III  
(kp = 1, 1.4, 2)

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

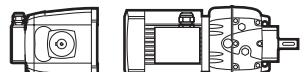
Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 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
1047	1.38							8.62 •	6.53 •	4.73	3.48	2.91	2.37	1.74	1.41	1.18
1171	1.24							8.04 •	6.08 •	4.41	3.25	2.71	2.21	1.62	1.31	1.10
4-pole LS, LSES and brakes																
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

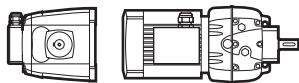
Classes  
I, II, III  
(kp = 1, 1.4, 2)

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)

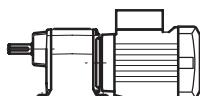
Cb 15  
LS, brake LS - IP 55 - Cl. F - 230 V/400 V Y - 50 Hz - U.G.

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			56 P	63 P	71 P	80	90					
min-1	i exact	56 P	63 P	71 P								
6.29	231	1.01										
7.13	203	1.14										
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								
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						
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 - Cl. 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)											
Three-phase 4-pole LS, LSES											
0.06	0.09	0.12	0.18	0.25	0.37	0.55	0.75	0.9	1.1	1.5	
56	63			71			80		90		
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 - Cl. F  
230 V/400 V Y 400 V Δ - 50 Hz - U.G.

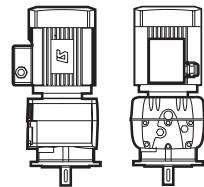
Integral mounting	MI
Universal mounting	MU
Input shaft mounting	AP

Cb 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	2.28	1.89	1.55	1.13
198	7.34				8.30	5.43	4.09	3.35	2.77	2.02	1.68	1.37
226	6.42				9.49	6.21	4.67	3.83	3.17	2.31	1.92	1.57
257	5.65					6.96	5.22	4.28	3.54	2.58	2.14	1.75
290	4.99					7.39 •	5.49 •	4.52 •	3.72	2.72	2.26	1.84
327	4.43					7.61 •	5.65 •	4.66 •	3.83	2.80	2.32	1.90
371	3.91					8.48	6.30	5.19	4.27	3.12	2.59	2.12
391	3.71					8.72	6.48	5.33	4.39	3.21	2.66	2.18
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	4	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
208	6.96						7.61	6.23	5.15	3.77	3.12	2.55	1.86
238	6.1						8.67	7.10	5.87	4.29	3.55	2.91	2.13
263	5.51						9.6 •	7.86 •	6.50 •	4.75 •	3.93 •	3.22 •	2.35
297	4.88							8.88 •	7.35 •	5.37 •	4.45 •	3.64 •	2.66
317	4.57							9.48 •	7.84 •	5.73 •	4.74 •	3.88 •	2.84
375	3.87								9.26	6.77	5.6	4.59	3.35

4-pole LS, LSES and brakes

Three-phase 4-pole LS, LSES	
LS FCR	71 L
LSES FCR	80

• 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  
( $K_p = 1, 1.4, 2$ )

Cb 3333  
LS, LSES, LS brake, LSES brake - IP 55 - Cl. F  
230 V/400 V Y 400 V  $\Delta$  - 50 Hz - U.G.

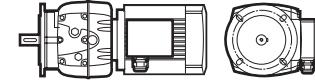
Integral mounting	<b>MI</b>
Universal mounting	<b>MU</b>
Input shaft mounting	<b>AP</b>

Cb 3333																
LS, LSES (kW)																
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									
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							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								5.29	3.87	3.20	2.62				
145	9.98								9.94 •	7.26 •	6.02 •	4.92 •	3.60	2.72	1.97	1.45
146	9.95									7.95 •	6.59 •	5.39 •	3.94 •	2.98 •	2.16	1.59
158	9.16									8.70	7.13	5.90	4.31	3.57	2.92	1.62
160	9.06									7.74	6.41	4.68	3.88	3.17		
178	8.14										8.72	7.21	5.27	4.36	3.57	2.61
185	7.85											9.33	7.74	6.33	4.63	3.49
205	7.09											8.28	6.05	5.01	4.10	3.00
226	6.41											9.15 •	6.69 •	5.54 •	4.53 •	3.31
259	5.59												7.68 •	6.35 •	5.20 •	3.80
287	5.06												8.48 •	7.02 •	5.74 •	4.20 •
316	4.59													9.35	7.74	6.33
364	3.98														8.93	7.30
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:	$K_p = 1$
Operating position; Mounting form:	Horizontal B52; BS flange
<b>Designation: Cb 3333 i: 30.2 BS S B52 - MI 4p LSES 112MU 4 kW LS2/IE2 - 400 VY - U.G.</b>	



# 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	<b>MI</b>
Universal mounting	<b>MU</b>
Input shaft mounting	<b>AP</b>

		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
min-1	i exact	80	90	100	112	132	160	180	200	Three-phase 4-pole LSES	Cb 3433	160	180	200	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																
52.9	27.4																
56.8	25.5																
64.8	22.4																
73.3	19.8																
82.4	17.6																
91.9	15.8																
107	13.5																
119	12.2																
134	10.8																
150	9.67																
169	8.6																
188	7.69																
211	6.86																
233	6.21																
265	5.48																
295	4.91																
332	4.37																
371	3.91																

4-pole LS, LSES and brakes		Three-phase 4-pole LS, LSES															
LS FCR		80 L	90 L	100 L	112	132	160	180	200								
LSES FCR		80	90	100	112	132	160	180	200								
LS, LSES FCPL																	

• 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	<b>MI</b>
Universal mounting	<b>MU</b>
Input shaft mounting	<b>AP</b>

		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									
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	
227	6.38									8.46 •	6.13	4.51	3.76	3.08	2.25	1.83	
255	5.7									9.04 •	6.54	4.82	4.02	3.29	2.40	1.95	
284	5.1											5.28	4.31	3.16	2.56	1.58	
311	4.66											5.55	4.53	3.32	2.69	2.26	
356	4.07											5.94	4.86	3.55	2.88	2.42	
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 VΔ - 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)																
min-1	i exact	1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30	37	45	55
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										
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

LS FCR	90 L	100 L	112	132	160	180	200	225	250
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 VΔ - U.G.

# Electromechanical products

## Compabloc 3000

### Selection

Classes I, II, III (kp = 1, 1.4, 2)	Cb 3733															Integral mounting MI															
	Cb 3733															Universal mounting MU															
	Cb 3733															Input shaft mounting AP															
<b>Cb 3733</b>																															
LSES (kW)																															
Three-phase 4-pole LSES																															
min <sup>-1</sup>	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

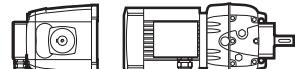
LS FCR	90 L	100 L	112	132	160												
LSES FCR	90	100	112	132	160												
LS, LSES FCPL					160	180	200	225	250	280							

1. LS B35 obligatory

• MU obligatory

#### Selection example

Required power: 45 kW  
 Required speed: 70 min<sup>-1</sup>  
 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 V<sub>A</sub> - 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)														
	7.5	9	11	15	18.5	22	30	37	45	55 <sup>1</sup>	75 <sup>1</sup>	90 <sup>1</sup>	110 <sup>1</sup>	
Three-phase 4-pole LSES 4p														
min <sup>-1</sup>	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 •
289	5.01								9.85	8.02	6.60	5.43 •	3.99 •	3.32 •
330	4.4									8.91	7.33	6.02 •	4.42 •	3.68 •
355	4.08									8.95	7.36	6.06 •	4.45 •	3.70 •
415	3.49									9.30	7.65	6.30 •	4.62 •	3.85 •
456	3.18									8.01	6.59	5.43 •	3.98 •	3.32 •
503	2.88									9.10	7.49	6.17 •	4.53 •	3.77 •

4-pole LS, LSES and brakes

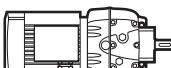
Three-phase 4-pole LS, LSES

LS FCR	132	160												
LSES FCR	132	160												
LS, LSES FCPL		160	180	200	225	250	280							NC

1. LS B35 obligatory

NC : Consult Leroy-Somer

● MU obligatory



#### Selection example

Required power: 45 kW  
Required speed: 29 min<sup>-1</sup>  
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 VAΔ - U.G.

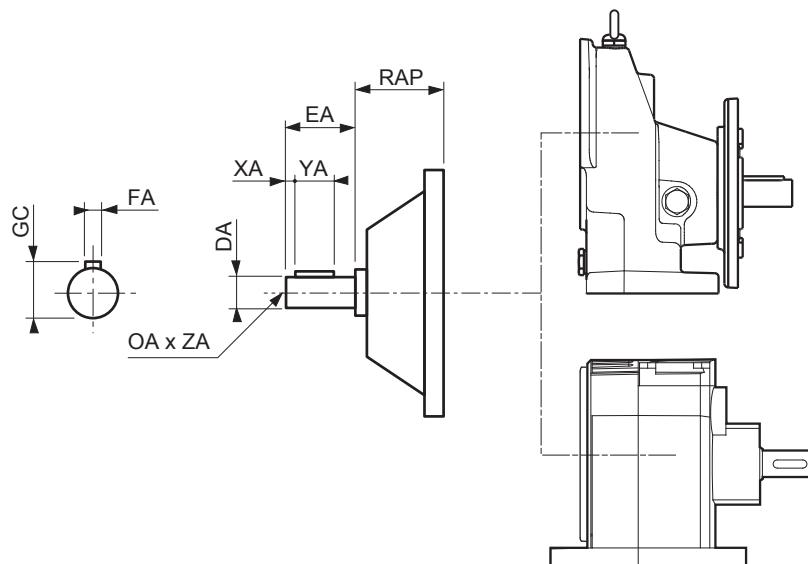
# Electromechanical products

## Compabloc 3000

### Dimensions

#### Dimensions of the AP input shaft

Dimensions in millimetres



Type	AP								kg
	ØDA	EA	YA	XA	FA	GC	RAP	OAxAZa	
Cb 38	55k6	110	90	10	16	59	48.5	M20x42	32
Cb 37	48k6	110	90	10	14	51.5	51	M16x36	27
Cb 36	48k6	110	90	10	14	51.5	51	M16x36	27
Cb 35	38j6	80	63	8	10	41	129.5	M12x28	14
Cb 34	28j6	60	50	5	8	31	138.5	M10x22	5
Cb 33	28j6	60	50	5	8	31	69	M10x22	5
Cb 32	24j6	50	40	4.5	8	27	73	M8x19	1.2
Cb 31	24j6	50	40	4.5	8	27	73	M8x19	1.5
Cb 30	14j6	30	20	3	5	16	69	M5x14	1.3
Cb 15	11j7	23	20	-	4	12.5	50.5	M4x10	0.3

# Electromechanical products

## Compabloc 3000

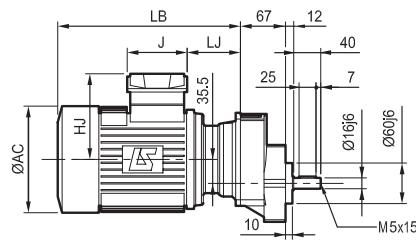
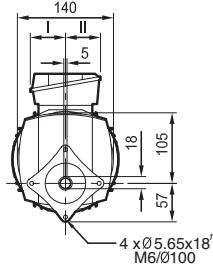
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3031

Dimensions in millimetres

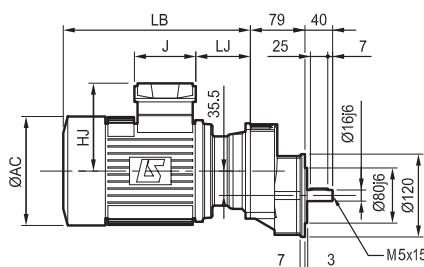
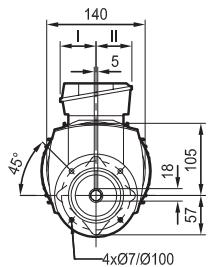
#### - BT faceplate form

 Cb: 2.3 kg + Motor  
1. for self-tapping screw



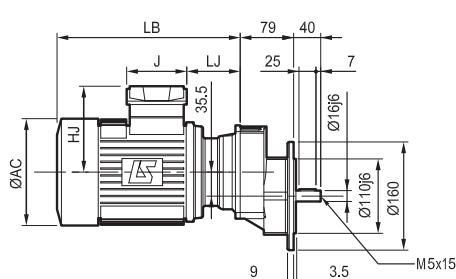
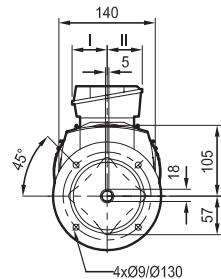
#### - BD1 flange

 Cb: 2.5 kg + Motor



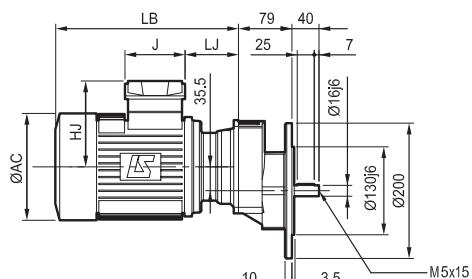
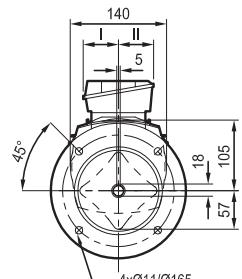
#### - BD2 flange

 Cb: 2.5 kg + Motor



#### - BD3 flange

 Cb: 2.4 kg + Motor



# Electromechanical products

## Compabloc 3000

### Dimensions

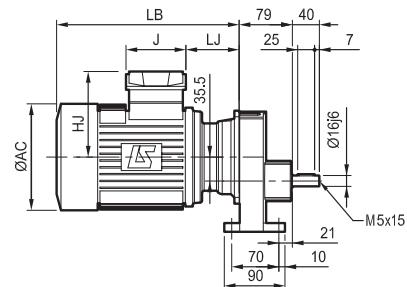
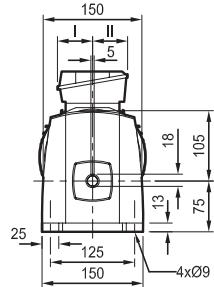
**Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3031**

Dimensions in millimetres

#### - S foot mounted



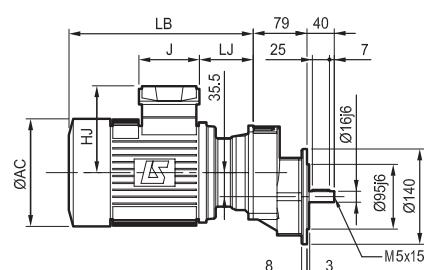
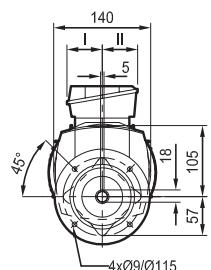
Cb: 2.3 kg + Motor



#### - Standard BS flange



Cb: 2.5 kg + Motor



#### Three-phase 4-pole motors

Fr. size	LSES							LSES FCR							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LSES 80	170	135	86	309	77	43	43	11.7	172	146	160	349.5	46	55	55	18

#### Three-phase 4-pole motors

Fr. size	LS							LS FMD							LS FCR							kg			
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	
LS 56	110	84	86	167	19	43	43	4	110	90	85	217	19	42.5	42.5	4.9	-	-	-	-	-	-	-	-	
LS 63	124	89	86	183	29	43	43	5	124	96	85	233	29	42.5	42.5	5.7	-	-	-	-	-	-	-	-	
LS 71 L	140	109	86	240	73	43	43	8.3	-	-	-	-	-	-	-	-	-	140	135	160	268	34	55	55	11.3
LS 80 L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	172	146	160	300	46	55	55	18	

#### Single-phase 4-pole motors

Fr. size	LS							LS FMD							kg	
	AC	HJ	J	LB <sup>1</sup> /LB <sup>2</sup>	LJ	I	II	kg	AC	HJ	J	LB <sup>1</sup> /LB <sup>2</sup>	LJ	I	II	kg
LS 56	110	92	86	167/146	19	90	44	3.5	110	92	86	217/196	18	90	44	4.4
LS 63	124	97	138	183/161	29	100	102.5	5	124	97	138	233/211	29	100	102.5	5.9
LS 71 L	140	107	138	204/166	29	100	102.5	8	140	107	138	244/216	29	100	102.5	8.9

1. ventilated motor.

2. non-ventilated motor.

# Electromechanical products

## Compabloc 3000

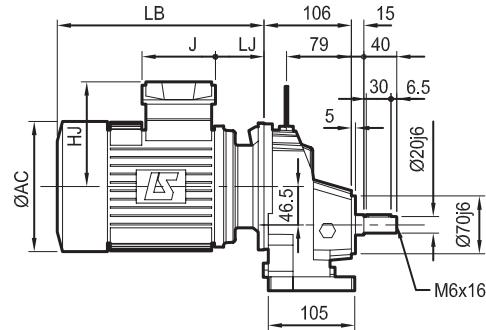
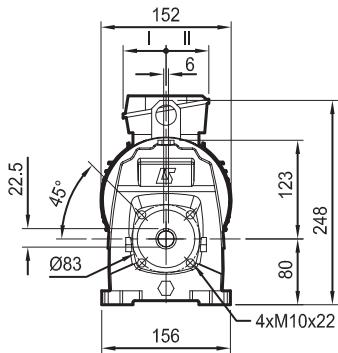
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3131

*Dimensions in millimetres*

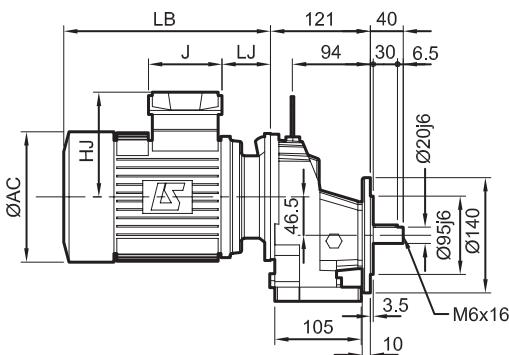
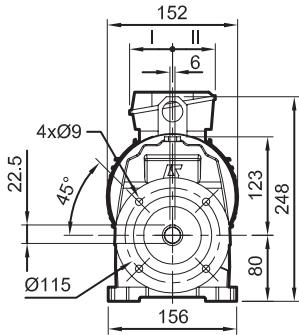
#### - BT faceplate form

 Cb: 6.9 kg + Motor



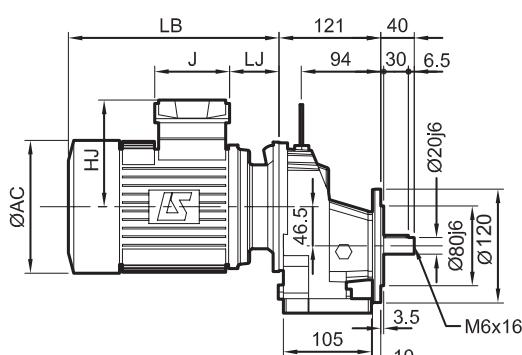
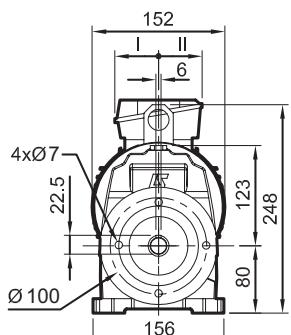
#### - BD1 flange

 Cb: 7.9 kg + Motor



#### - BD2 flange

 Cb: 7.8 kg + Motor



# Electromechanical products

## Compabloc 3000

### Dimensions

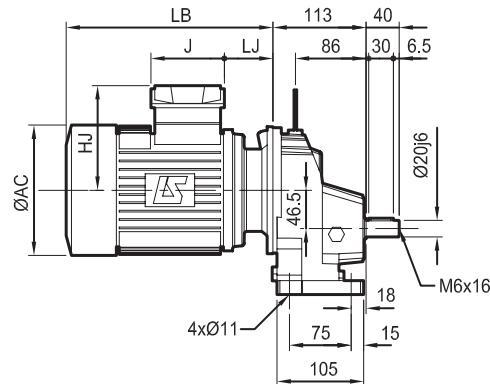
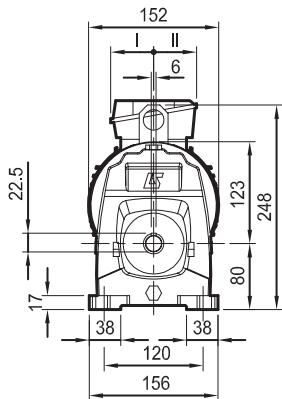
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3131

Dimensions in millimetres

#### - S foot mounted



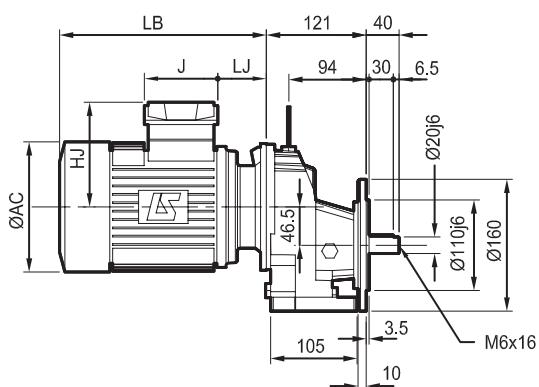
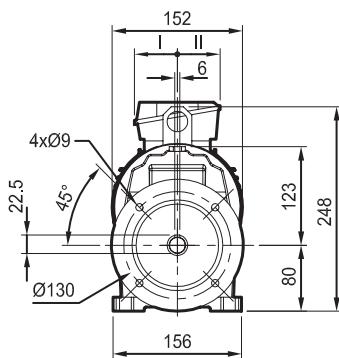
Cb: 6.9 kg + Motor



#### - Standard BS flange



Cb: 8.1 kg + Motor



#### 4-pole motors

Fr. size	LSES							LSES FCR								
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg
LSES 80	170	135	86	288.5	67.5	43	43	11.7	172	146	160	349.5	46	55	55	18
LSES 90	190	135	86	290	71	43	43	15.2	184	156	160	349.5	58.5	55	55	24.2
LSES 100 LR	200	140	86	354.5	72	43	43	25.7	200	161	160	410	59.5	55	55	30

#### 4-pole motors

Fr. size	LS							LS FCR								
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg
LS 71 L	140	109	86	217	49	43	43	8.3	140	135	160	268	34	55	55	11.3
LS 80 L	-	-	-	-	-	-	-	-	172	146	160	300	46	55	55	18
LS 90 L	-	-	-	-	-	-	-	-	184	156	160	349.5	58.5	55	55	24.2
LS 100 L	-	-	-	-	-	-	-	-	200	161	160	397.5	59.5	55	55	30

# Electromechanical products

## Compabloc 3000

### Dimensions

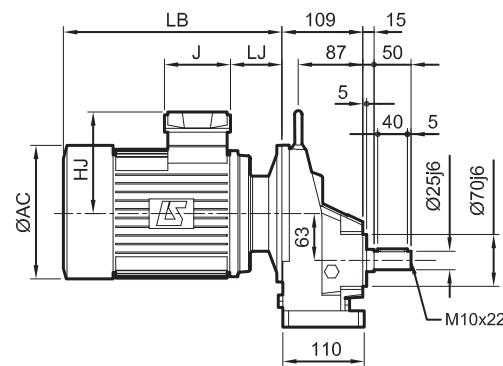
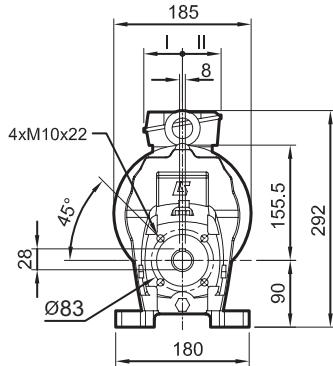
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3231

Dimensions in millimetres

#### - BT faceplate form



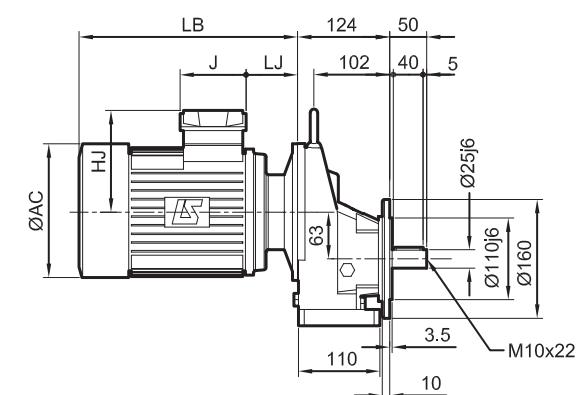
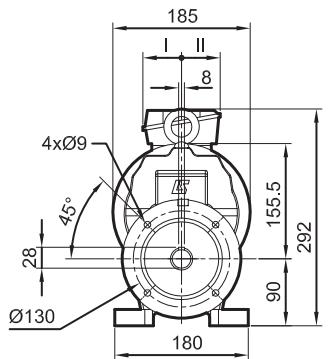
Cb: 8.3 kg + Motor



#### - BD1 flange



Cb: 9.5 kg + Motor



# Electromechanical products

## Compabloc 3000

### Dimensions

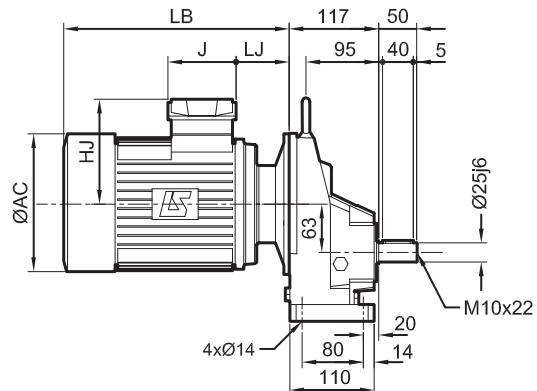
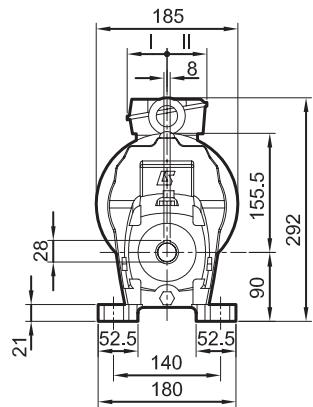
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3231

*Dimensions in millimetres*

#### - S foot mounted



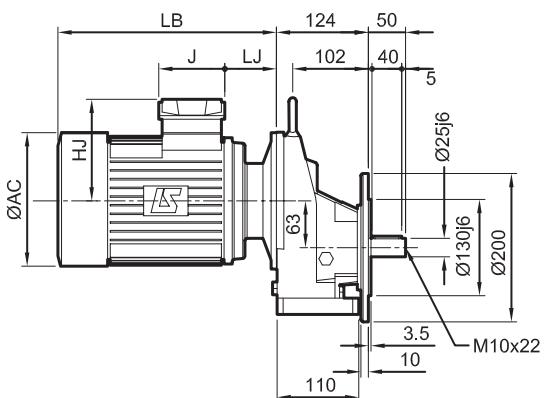
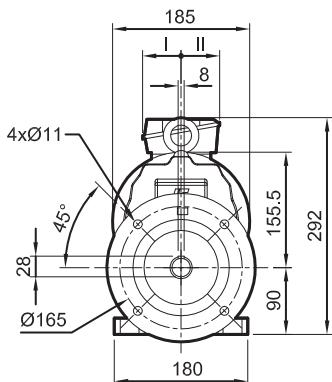
Cb: 8.3 kg + Motor



#### - Standard BS flange



Cb: 10.3 kg + Motor



#### 4-pole motors

Fr. size	LSES							LSES FCR							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LSES 80	170	135	86	288	67.5	43	43	11.7	172	146	160	349.5	46	55	55	18
LSES 90	190	135	86	290	71	43	43	15.2	184	156	160	349.5	58.5	55	55	24.2
LSES 100 LR	200	140	86	354.5	72	43	43	25.7	200	161	160	410	59.5	55	55	30
LSES 112 MU	235	149	86	371	73.5	43	43	35	235	169	160	434	61	55	55	44.5
LSES 132 SU	260	172	126	397	52.5	63	63	42	235	169	160	477	61	55	55	48

#### 4-pole motors

Fr. size	LS							LS FCR							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LS 71 L	140	109	86	217	49	43	43	8.3	140	135	160	268	34	55	55	11.3
LS 80 L	-	-	-	-	-	-	-	-	172	146	160	300	46	55	55	18
LS 90 L	-	-	-	-	-	-	-	-	184	156	160	349.5	58.5	55	55	24.2
LS 100 L	-	-	-	-	-	-	-	-	200	161	160	397.5	59.5	55	55	30
LS 112 MG	-	-	-	-	-	-	-	-	235	169	160	434	61	55	55	44.5
LS 132 S	-	-	-	-	-	-	-	-	235	169	160	457	61	55	55	48

# Electromechanical products

## Compabloc 3000

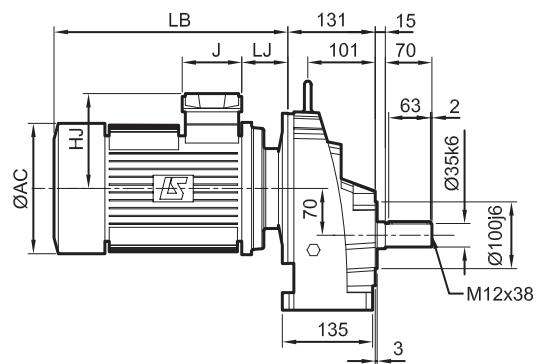
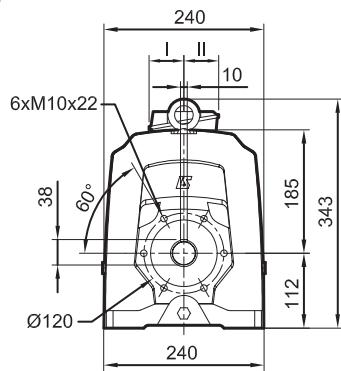
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3331

Dimensions in millimetres

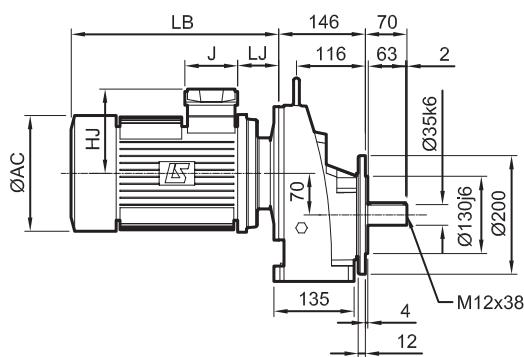
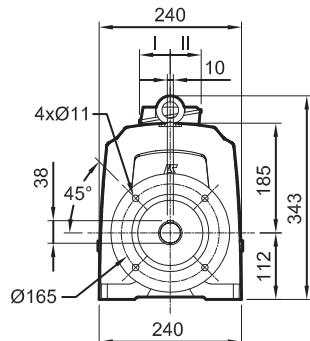
#### - BT faceplate form

 Cb: 15.5 kg + Motor



#### - BD1 flange

 Cb: 18.3 kg + Motor



# Electromechanical products

## Compabloc 3000

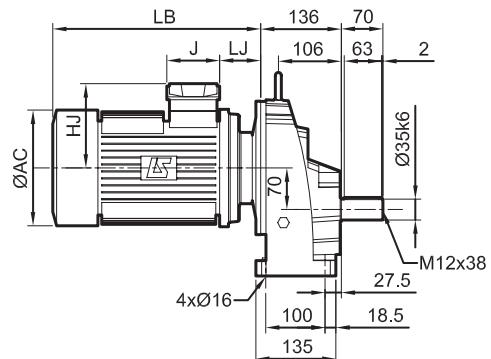
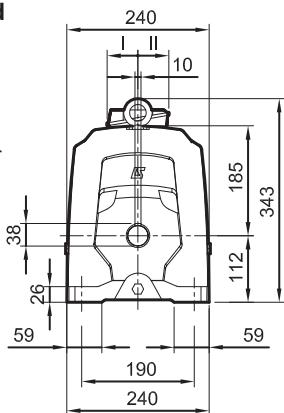
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3331

Dimensions in millimetres

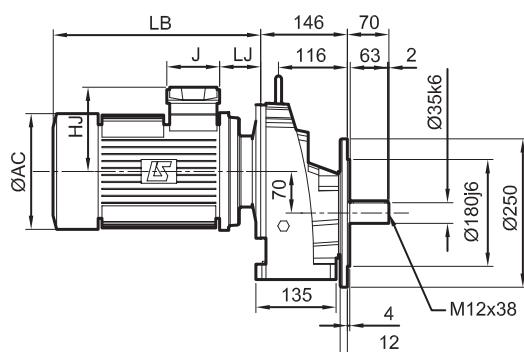
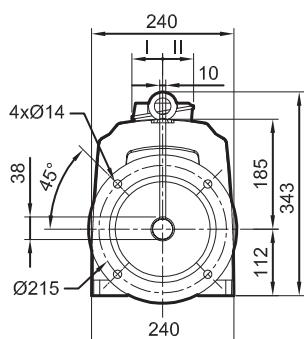
#### - S foot mounted

Cb: 15.5 kg + Motor



#### - Standard BS flange

Cb: 19.4 kg + Motor



#### 4-pole motors

Fr. size	LSES							LSES FCR							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LSES 80	170	135	86	284	63.5	43	43	11.7	172	146	160	345.5	42	55	55	18
LSES 90	190	135	86	286	67	43	43	15.2	184	156	160	345.5	54.5	55	55	24.2
LSES 100 LR	200	140	86	350.5	68	43	43	25.7	200	161	160	406	55.5	55	55	30
LSES 112 MU	235	149	86	367	69.5	43	43	35	235	169	160	430	58	55	55	44.5
LSES 132 MU	265	190	126	460	65	63	63	68	280	188	160	541	73	55	55	80

#### 4-pole motors

Fr. size	LS							LS FCR							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LS 71 L	140	109	86	213	45	43	43	8.3	140	135	160	264	21.5	55	55	11.3
LS 80 L	-	-	-	-	-	-	-	-	172	146	160	296	42	55	55	18
LS 90 L	-	-	-	-	-	-	-	-	184	156	160	345.5	54.5	55	55	24.2
LS 100 L	-	-	-	-	-	-	-	-	200	161	160	393.5	55.5	55	55	30
LS 112 MG	-	-	-	-	-	-	-	-	235	169	160	430	58	55	55	44.5
LS 132 M	-	-	-	-	-	-	-	-	280	188	160	541	73	55	55	80

# Electromechanical products

## Compabloc 3000

### Dimensions

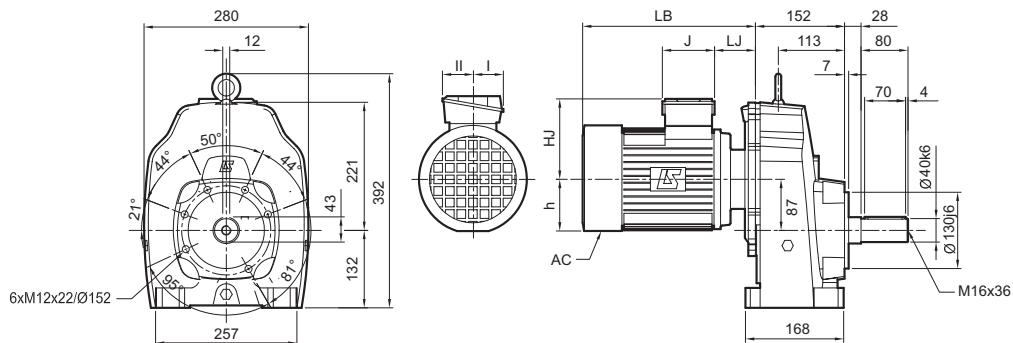
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3431

Dimensions in millimetres

#### - BT faceplate form



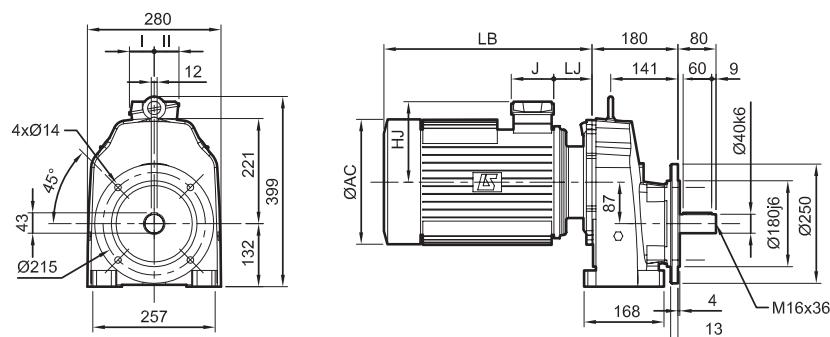
Cb: 25 kg + Motor



#### - BD1 flange



Cb: 29.5 kg + Motor



# Electromechanical products

## Compabloc 3000

### Dimensions

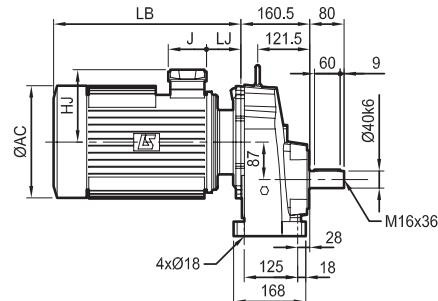
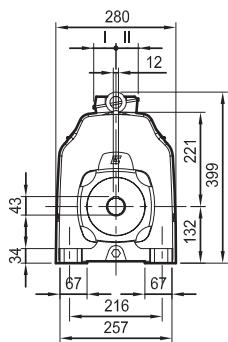
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3431

Dimensions in millimetres

#### - S foot mounted



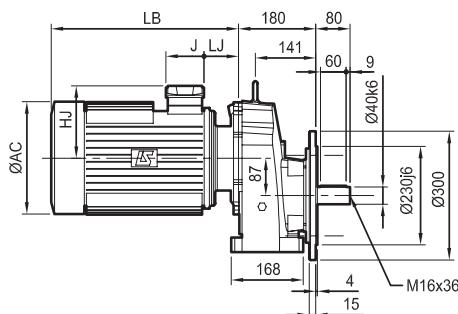
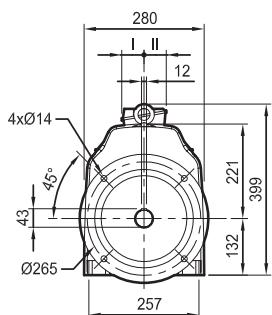
Cb: 25 kg + Motor



#### - Standard BS flange



Cb: 31 kg + Motor



Fr. size	4-pole motors																		LSES FCPL					
	LSES						LSES FCR						LSES FCPL											
	AC	HJ	J	LB	LJ	I	II		AC	HJ	J	LB	LJ	I	II		AC	HJ	J	LB	LJ	I	II	
LSES 80 LG	170	135	86	288.5	68	43	43	11.7	172	146	160	345.5	46.5	55	55	18	-	-	-	-	-	-	-	-
LSES 90 L	190	135	86	286	67	43	43	15.2	184	156	160	345.5	54.5	55	55	24.2	-	-	-	-	-	-	-	-
LSES 100 LR	200	140	86	350.5	68	43	43	25.7	200	161	160	406	55.5	55	55	30	-	-	-	-	-	-	-	-
LSES 112 MU	235	149	86	367	69.5	43	43	35	235	169	160	434	62	55	55	44.5	-	-	-	-	-	-	-	-
LSES 132 MU	265	190	126	464	69	63	63	68	280	188	160	545	77	55	55	80	-	-	-	-	-	-	-	-
LSES 160 L	312	222	126	508	60.8	63	63	91	316	231	160	620	96	55	55	110	345	235	134	681	56.8	92	63	140
LSES 180 LR	312	248	186	533	67.8	112	98	115	-	-	-	-	-	-	-	-	345	235	134	696	57	92	63	155

Fr. size	4-pole motors															
	LS FCR						LS FCPL									
	AC	HJ	J	LB	LJ	I	II		AC	HJ	J	LB	LJ	I	II	
LS 80 L	172	146	160	300.5	46.5	55	55	18	-	-	-	-	-	-	-	-
LS 90 L	184	156	160	345.5	54.5	55	55	24.2	-	-	-	-	-	-	-	-
LS 100 L	200	161	160	393.5	55.5	55	55	30	-	-	-	-	-	-	-	-
LS 112 MG	235	169	160	434	61	55	55	44.5	-	-	-	-	-	-	-	-
LS 132 M	280	188	160	545	77	55	55	80	-	-	-	-	-	-	-	-
LS 160 L	316	231	160	620	96	55	55	110	345	235	134	681	56.8	92	63	140
LS 180 LR	-	-	-	-	-	-	-	-	345	235	134	696	57	92	63	155

# Electromechanical products

## Compabloc 3000

### Dimensions

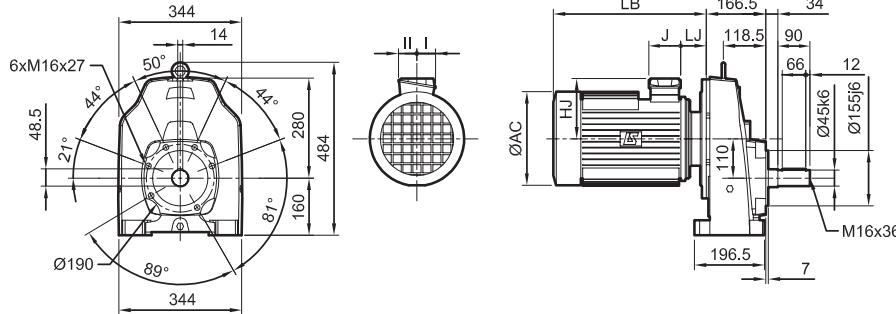
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3531

Dimensions in millimetres

#### - BT faceplate form



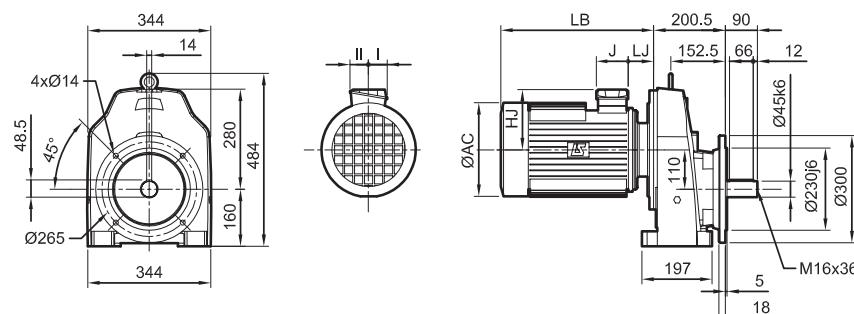
Cb: 41 kg + Motor



#### - BD1 flange



Cb: 46 kg + Motor



# Electromechanical products

## Compabloc 3000

### Dimensions

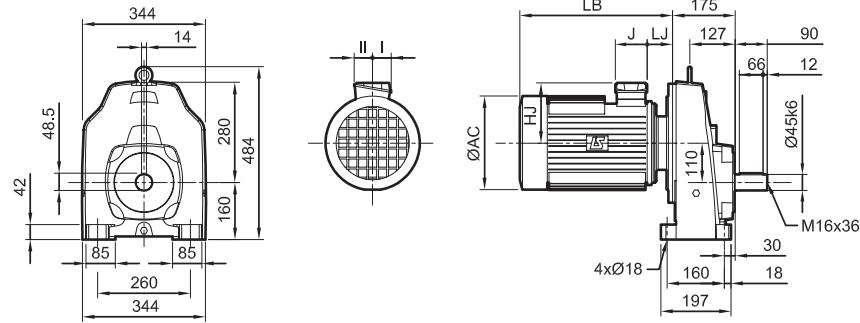
#### Dimensions of Compabloc (Cb) gearboxes, MI integral mounting, Cb 3531

Dimensions in millimetres

##### - S foot mounted



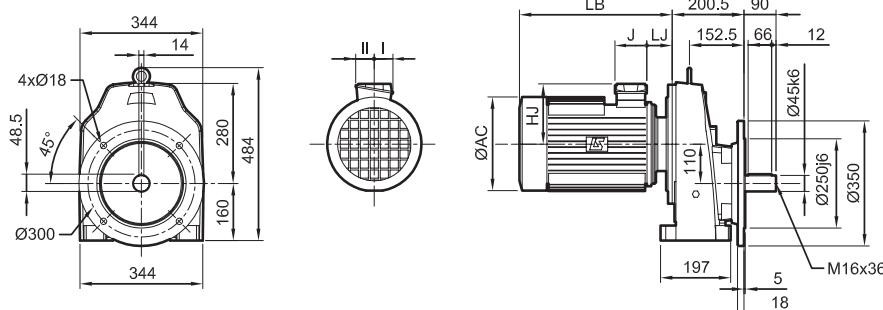
Cb: 41 kg + Motor



##### - Standard BS flange



Cb: 48 kg + Motor



Fr. size	4-pole motors																							
	LSES						LSES FCR						LSES FCPL											
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg
LSES 90 L	190	135	86	281	62	43	43	15.2	184	156	160	340.5	49.5	55	55	24.2	-	-	-	-	-	-	-	-
LSES 100 LR	200	140	86	345.5	63	43	43	25.7	200	161	160	401	50.5	55	55	30	-	-	-	-	-	-	-	-
LSES 112 MU	235	149	86	362	64.5	43	43	35	235	169	160	425	53	55	55	44.5	-	-	-	-	-	-	-	-
LSES 132 MU	265	190	126	455	60	63	63	68	280	188	160	536	56	55	55	80	-	-	-	-	-	-	-	-
LSES 160 L	312	222	126	499	51.8	63	63	91	316	231	160	611	87	55	55	110	312	235	134	672	47.8	92	63	140
LSES 180 LR	312	248	186	524	58.8	112	98	115	-	-	-	-	-	-	-	-	345	235	134	687	48	92	63	150
LSES 200 LR	350	256	186	618	67.5	112	98	164	-	-	-	-	-	-	-	-	384	256	186	826	67.5	111	98	240

Fr. size	4-pole motors															
	LS FCR						LS FCPL									
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg
LS 90 L	184	156	160	340.5	49.5	55	55	24.2	-	-	-	-	-	-	-	
LS 100 L	200	161	160	388.5	50.5	55	55	30	-	-	-	-	-	-	-	
LS 112 MG	235	169	160	425	53	55	55	44.5	-	-	-	-	-	-	-	
LS 132 M	280	188	160	536	56	55	55	80	-	-	-	-	-	-	-	
LS 160 LR	316	231	160	611	87	55	55	110	312	235	134	672	47.8	92	63	140
LS 180 LR	-	-	-	-	-	-	-	-	345	235	134	687	48	92	63	150
LS 200 LT	-	-	-	-	-	-	-	-	384	256	186	826	67.5	111	98	240

# Electromechanical products

## Compabloc 3000

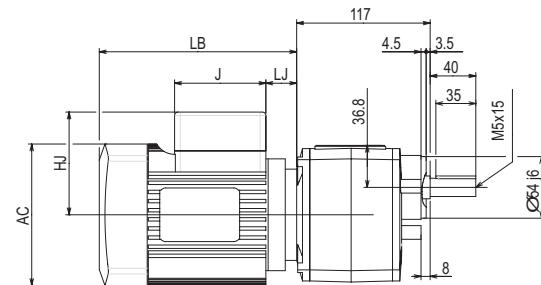
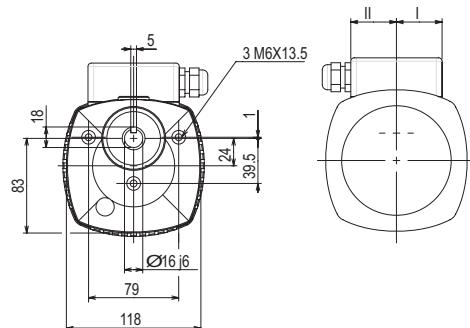
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 15--

Dimensions in millimetres

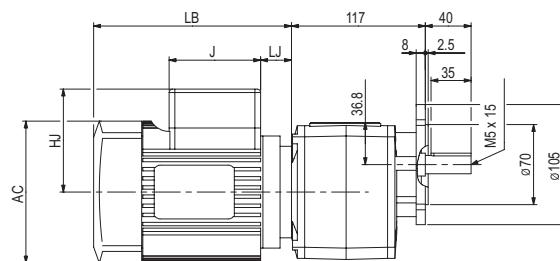
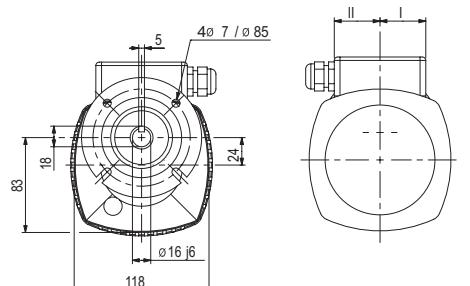
#### - BT faceplate form

 Cb: 2.9 kg + Motor



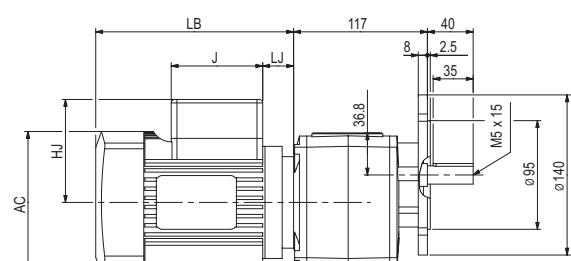
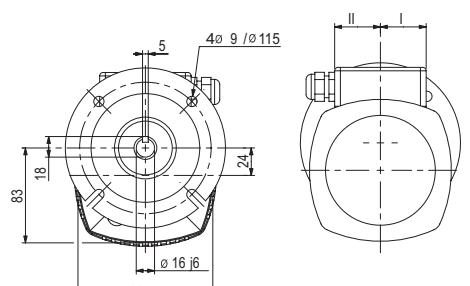
#### - BD1 flange

 Cb: 2.8 kg + Motor



#### - BD2 flange

 Cb: 3 kg + Motor



# Electromechanical products

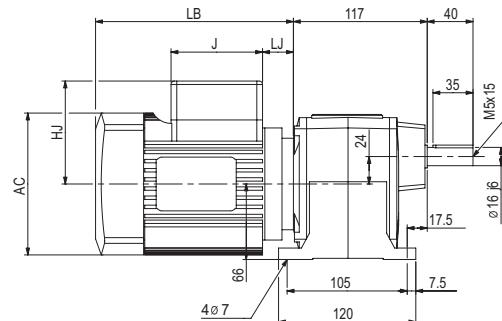
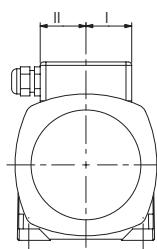
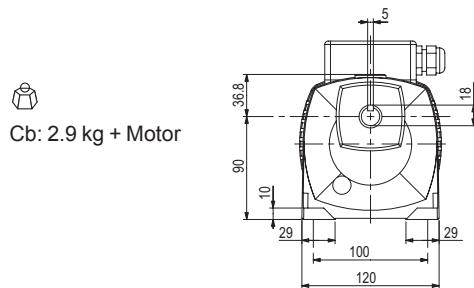
## Compabloc 3000

### Dimensions

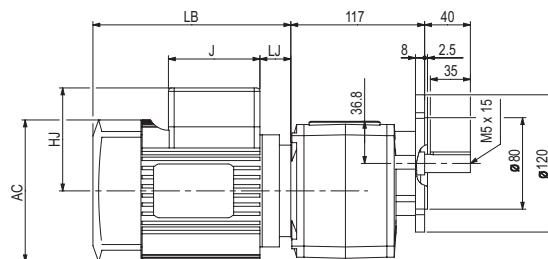
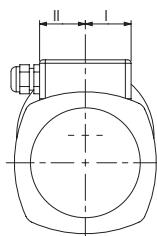
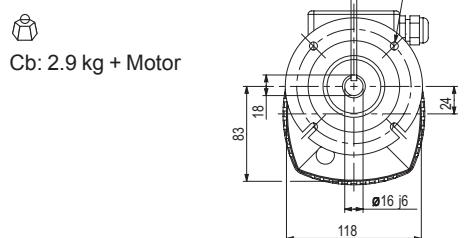
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 15--

Dimensions in millimetres

#### - S foot mounted



#### - Standard BS flange



Fr. size	4-pole motors												LS FMD											
	LS						LS FCR						LS FMD											
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg
56	110	85	78	156	16	39	39	4	-	-	-	-	-	-	-	-	110	90	86	206	16	43	43	4.3
63	124	95	78	172	26	39	39	5	-	-	-	-	-	-	-	-	124	110	86	222	26	43	43	5.2
71	140	102	78	183	21	39	39	8.3	140	135	160	273	38	55	55	8.5	140	129	86	233	21	43	43	7.4

Fr. size	Single-phase 4-pole LS										LS FMD									
	LS										LS FMD									
	AC	HJ	J	LB <sup>1</sup>	LB <sup>2</sup>	LJ	I <sup>3</sup>	II	kg	AC	HJ	J	LB <sup>1</sup>	LB <sup>2</sup>	LJ	I	II	kg		
56	110	90	86	156	135	19	90	44	3.5	110	90	86	206	196	16	43	43	4.4		
63	124	110	138	172	150	29	100	44	4.5	124	110	86	222	211	26	43	43	5.4		
71	140	129	138	183	155	29	100	44	7.5	140	129	86	233	216	21	43	43	8.4		

1. ventilated motor

2. non-ventilated motor

3. with permanent capacitor

# Electromechanical products

## Compabloc 3000

### Dimensions

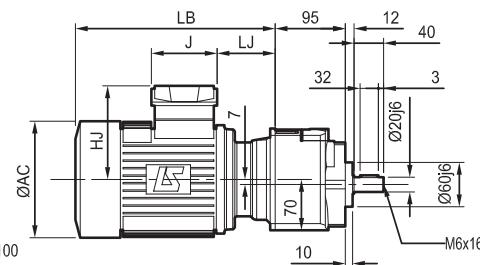
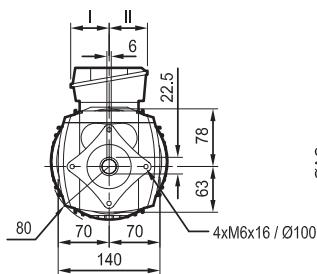
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3032

Dimensions in millimetres

#### - BT faceplate form



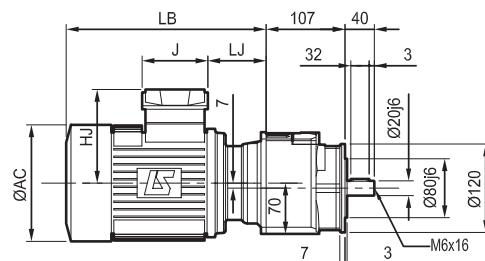
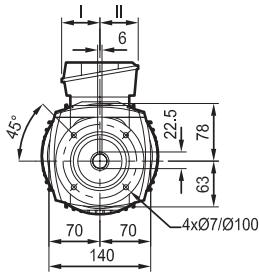
Cb: 4.6 kg + Motor



#### - BD1 flange



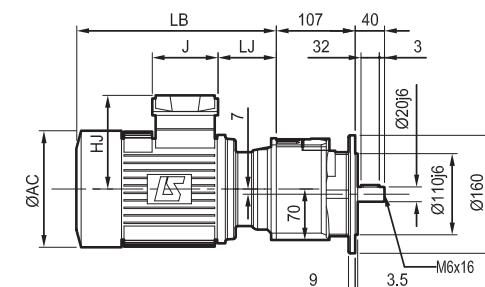
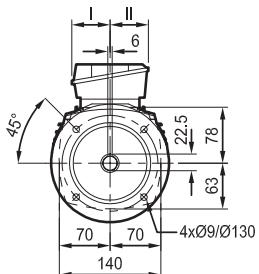
Cb: 4.7 kg + Motor



#### - BD2 flange



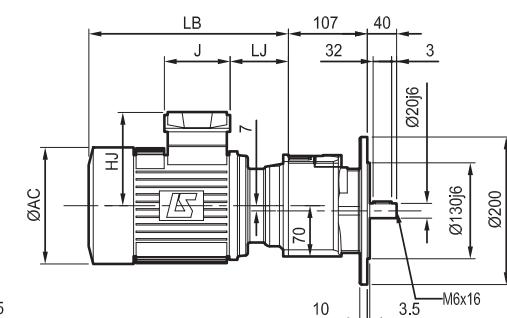
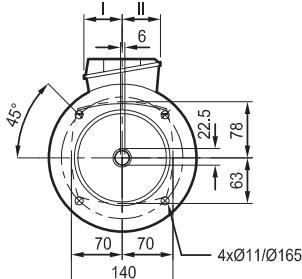
Cb: 4.9 kg + Motor



#### - BD3 flange



Cb: 5 kg + Motor



# Electromechanical products

## Compabloc 3000

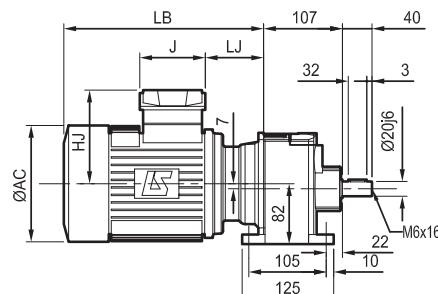
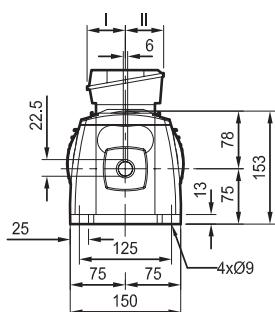
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3032

Dimensions in millimetres

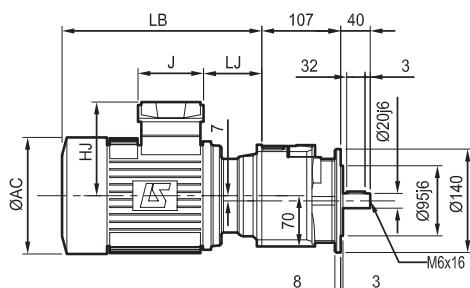
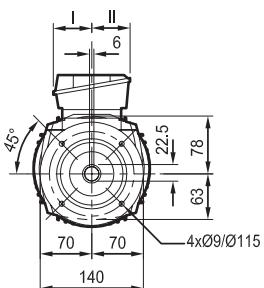
#### - S foot mounted

Cb: 4.8 kg + Motor



#### - Standard BS flange

Cb: 4.8 kg + Motor



#### Three-phase 4-pole motors

Fr. size	LSES							LSES FCR							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LSES 80	170	135	86	309	77	43	43	11.7	172	146	160	349.5	46	55	55	18

#### Three-phase 4-pole motors

Fr. size	LS							LS FMD							LS FCR							kg			
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II		
LS 56	110	84	86	167	19	43	43	4	110	90	85	217	19	42.5	42.5	4.9	-	-	-	-	-	-	-	-	
LS 63	124	89	86	183	29	43	43	5	124	96	85	233	29	42.5	42.5	5.7	-	-	-	-	-	-	-	-	
LS 71 L	140	109	86	240	73	43	43	8.3	-	-	-	-	-	-	-	-	-	140	135	160	268	34	55	55	11.3
LS 80 L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	172	146	160	300	46	55	55	18

#### Single-phase 4-pole motors

Fr. size	LS							LS FMD							kg	
	AC	HJ	J	LB <sup>1</sup> /LB <sup>2</sup>	LJ	I	II	kg	AC	HJ	J	LB <sup>1</sup> /LB <sup>2</sup>	LJ	I	II	
LS 56	110	92	86	167/146	19	90	44	3.5	110	92	86	217/196	18	90	44	4.4
LS 63	124	97	138	183/161	29	100	102.5	5	124	97	138	233/211	29	100	102.5	5.9
LS 71 L	140	107	138	204/166	29	100	102.5	8	140	107	138	244/216	29	100	102.5	8.9

1. ventilated motor.

2. non-ventilated motor.

# Electromechanical products

## Compabloc 3000

### Dimensions

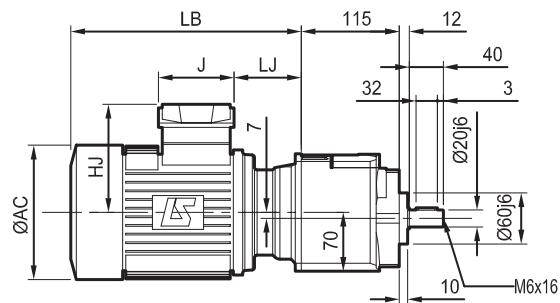
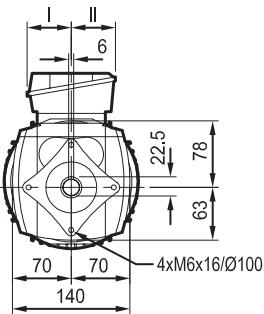
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3033

Dimensions in millimetres

#### - BT faceplate form



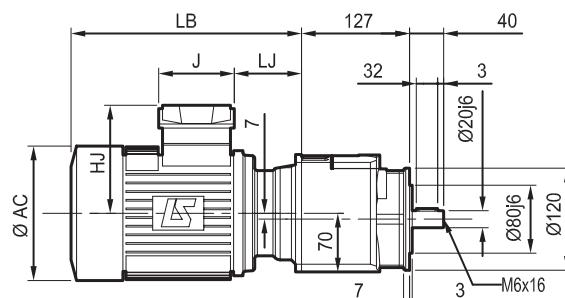
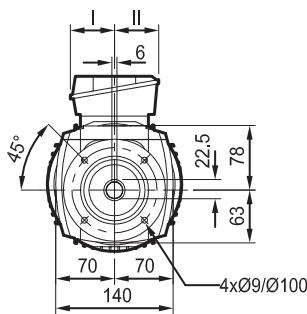
Cb: 4.7 kg + Motor



#### - BD1 flange



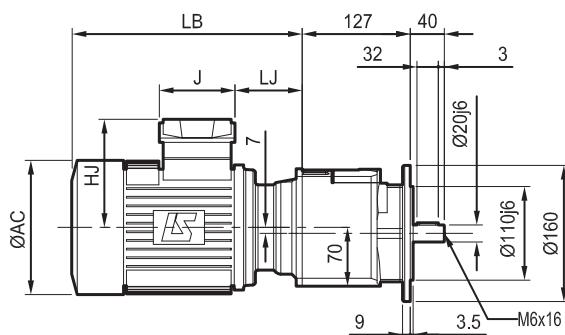
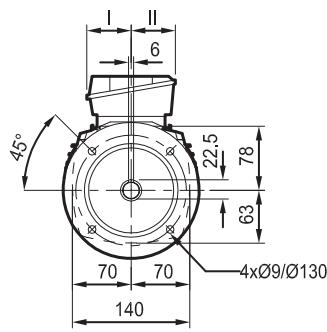
Cb: 4.8 kg + Motor



#### - BD2 flange



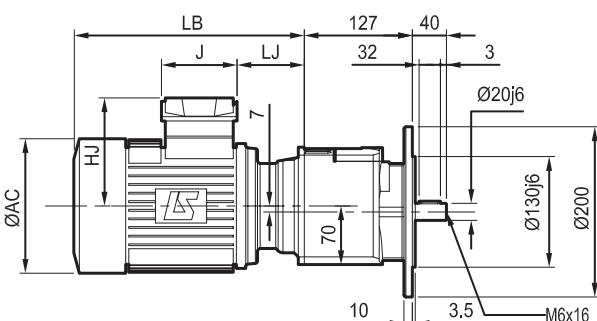
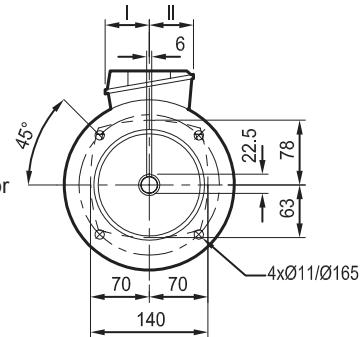
Cb: 5 kg + Motor



#### - BD3 flange



Cb: 5.1 kg + Motor



# Electromechanical products

## Compabloc 3000

### Dimensions

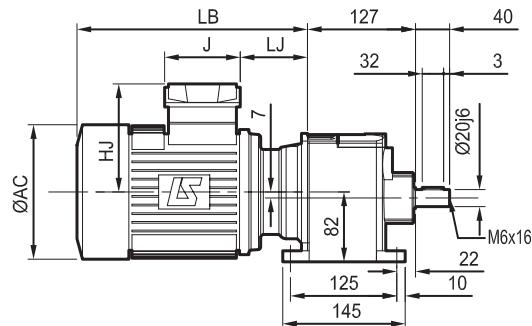
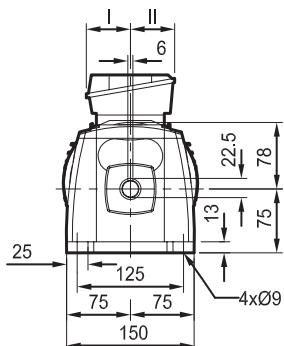
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3033

Dimensions in millimetres

#### - S foot mounted



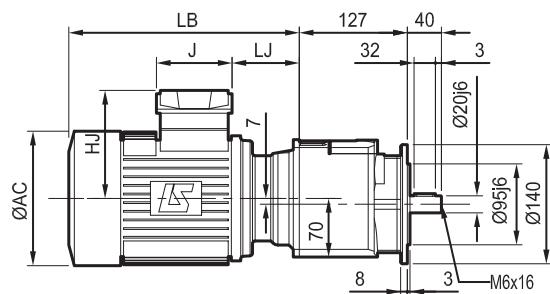
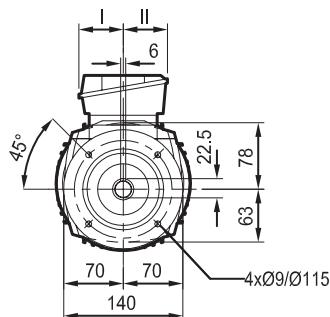
Cb: 4.9 kg + Motor



#### - Standard BS flange



Cb: 4.9 kg + Motor



#### Three-phase 4-pole motors

Fr. size	LSES							LSES FCR								
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg
LSES 80	170	135	86	309	77	43	43	11.7	172	146	160	349.5	46	55	55	18

#### Three-phase 4-pole motors

Fr. size	LS							LS FMD							LS FCR													
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg				
LS 56	110	84	86	167	19	43	43	4	110	90	85	217	19	42.5	42.5	4.9	-	-	-	-	-	-	-	-				
LS 63	124	89	86	183	29	43	43	5	124	96	85	233	29	42.5	42.5	5.7	-	-	-	-	-	-	-	-				
LS 71 L	140	109	86	240	73	43	43	8.3	-	-	-	-	-	-	-	-	-	140	135	160	268	34	55	55	11.3			
LS 80 L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	172	146	160	300	46	55	55	18			

#### Single-phase 4-pole motors

Fr. size	LS							LS FMD							LS FCR		
	AC	HJ	J	LB <sup>1</sup> /LB <sup>2</sup>	LJ	I	II	kg	AC	HJ	J	LB <sup>1</sup> /LB <sup>2</sup>	LJ	I	II	kg	
LS 56	110	92	86	167/146	19	90	44	3.5	110	92	86	217/196	18	90	44	4.4	
LS 63	124	97	138	183/161	29	100	102.5	5	124	97	138	233/211	29	100	102.5	5.9	
LS 71 L	140	107	138	204/166	29	100	102.5	8	140	107	138	244/216	29	100	102.5	8.9	

1. ventilated motor.

2. non-ventilated motor.

# Electromechanical products

## Compabloc 3000

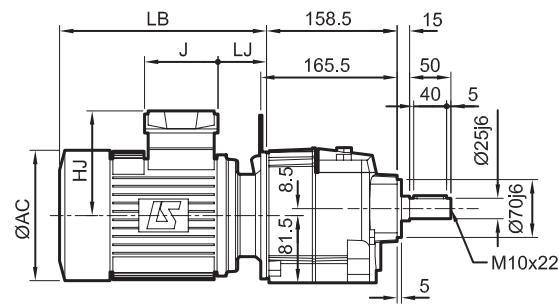
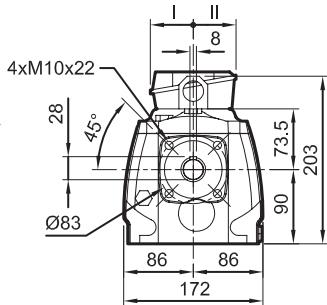
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3133

Dimensions in millimetres

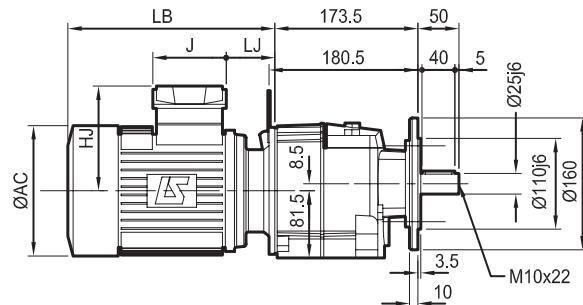
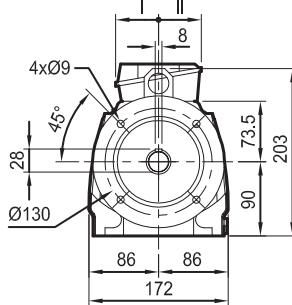
#### - BT faceplate form

 Cb: 12.7 kg + Motor



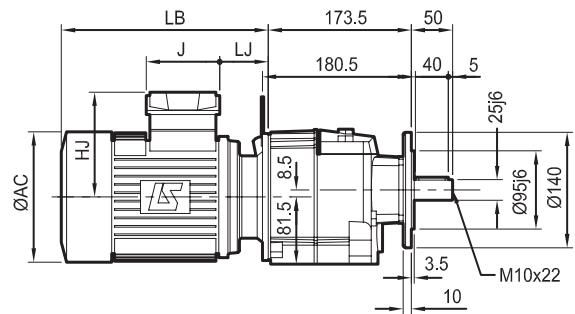
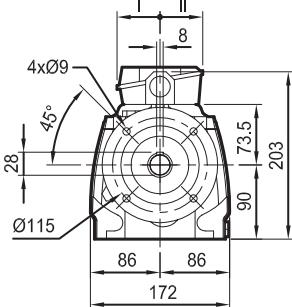
#### - BD1 flange

 Cb: 13.3 kg + Motor



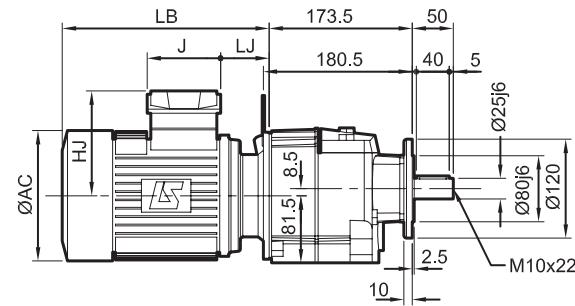
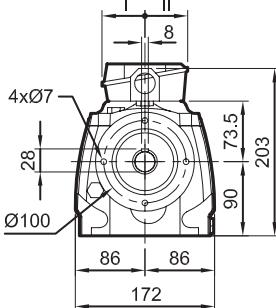
#### - BD2 flange

 Cb: 13.2 kg + Motor



#### - BD3 flange

 Cb: 13.1 kg + Motor



# Electromechanical products

## Compabloc 3000

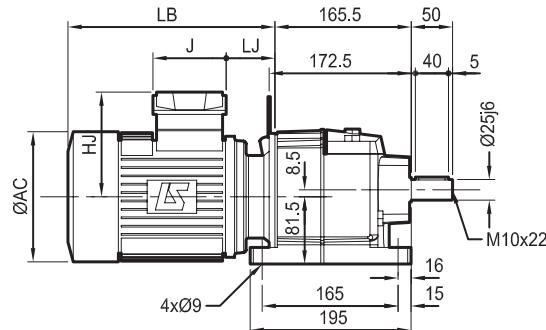
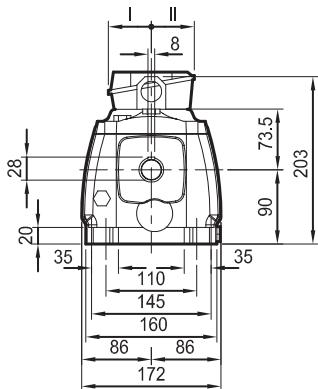
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3133

Dimensions in millimetres

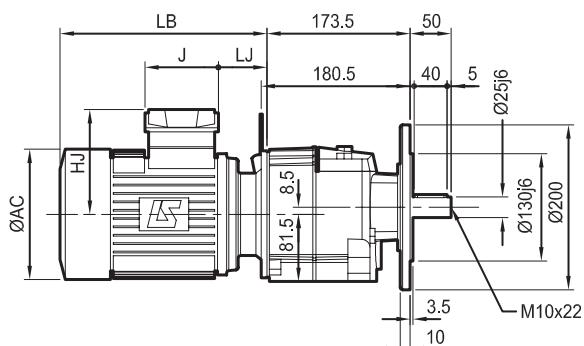
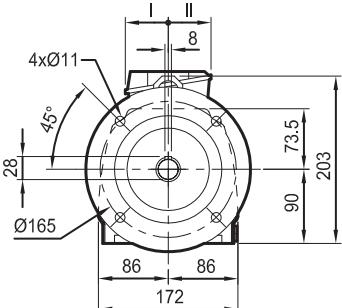
#### - S foot mounted

Cb: 13 kg + Motor



#### - Standard BS flange

Cb: 13.4 kg + Motor



Fr. size	4-pole motors								kg	
	LSES				LSES FCR					
	AC	HJ	J	LB	LJ	I	II			
LSES 80	170	135	86	288.5	67.5	43	43	11.7	18	
LSES 90	190	135	86	290	71	43	43	15.2	24.2	
LSES 100 LR	200	140	86	354.5	72	43	43	25.7	30	

Fr. size	4-pole motors								kg	
	LS				LS FCR					
	AC	HJ	J	LB	LJ	I	II			
LS 71 L	140	109	86	217	49	43	43	8.3	11.3	
LS 80 L	-	-	-	-	-	-	-	-	18	
LS 90 L	-	-	-	-	-	-	-	-	24.2	
LS 100 L	-	-	-	-	-	-	-	-	30	

# Electromechanical products

## Compabloc 3000

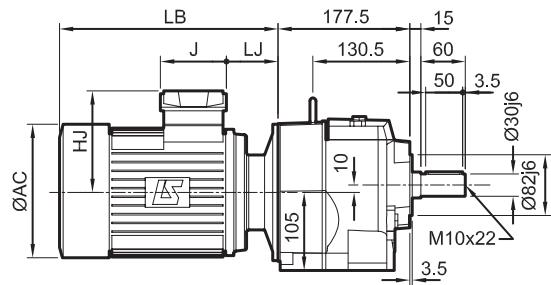
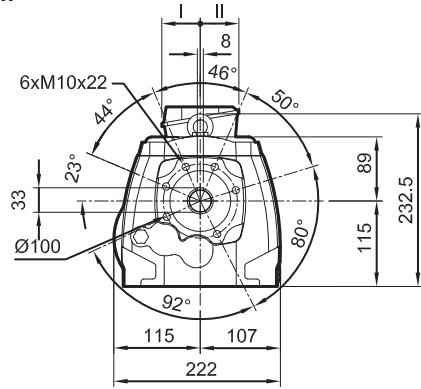
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3233

*Dimensions in millimetres*

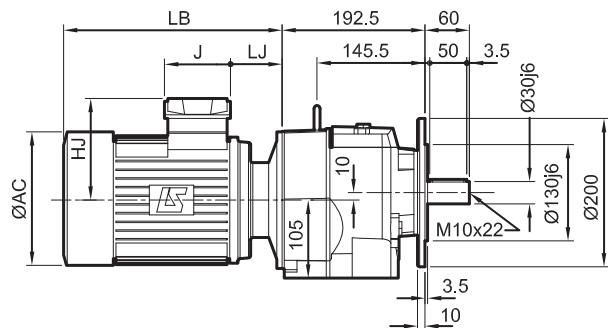
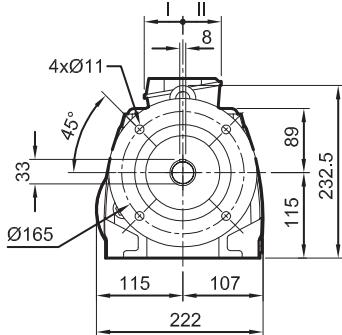
#### - BT faceplate form

 Cb: 18.2 kg + Motor



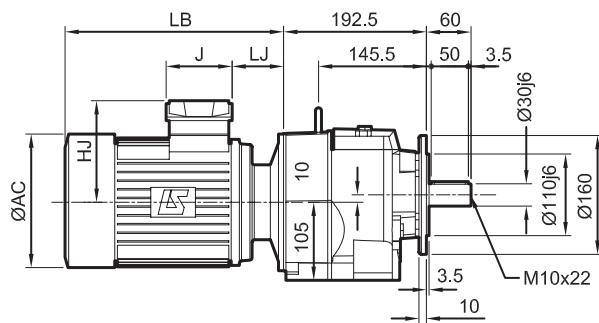
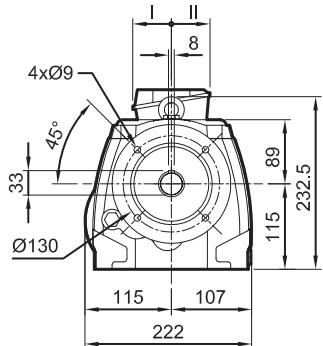
#### - BD1 flange

 Cb: 18.7 kg + Motor



#### - BD2 flange

 Cb: 18.6 kg + Motor



# Electromechanical products

## Compabloc 3000

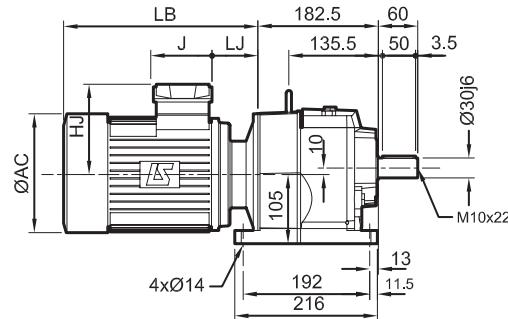
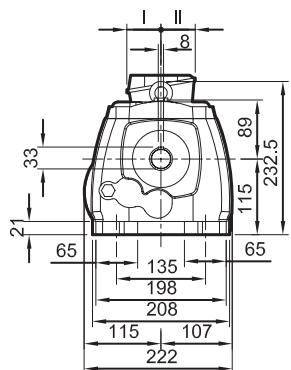
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3233

Dimensions in millimetres

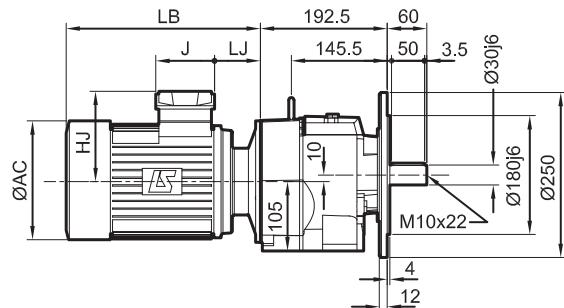
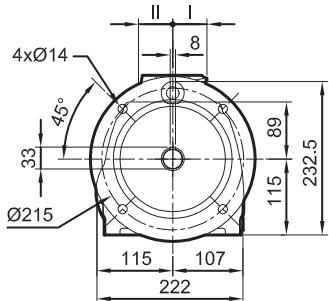
#### - S foot mounted

Cb: 18.5 kg + Motor



#### - Standard BS flange

Cb: 18.8 kg + Motor



Fr. size	4-pole motors															
	LSES						LSES FCR				kg					
	AC	HJ	J	LB	LJ	I	II	AC	HJ	J	LB	LJ	I	II		
LSES 80	170	135	86	288	67.5	43	43	11.7	172	146	160	349.5	46	55	55	18
LSES 90	190	135	86	290	71	43	43	15.2	184	156	160	349.5	58.5	55	55	24.2
LSES 100 LR	200	140	86	354.5	72	43	43	25.7	200	161	160	410	59.5	55	55	30
LSES 112 MU	235	149	86	371	73.5	43	43	35	235	169	160	434	61	55	55	44.5
LSES 132 SU	260	172	126	397	52.5	63	63	42	235	169	160	477	61	55	55	48

Fr. size	4-pole motors															
	LS						LS FCR				kg					
	AC	HJ	J	LB	LJ	I	II	AC	HJ	J	LB	LJ	I	II		
LS 71 L	140	109	86	217	49	43	43	8.3	140	135	160	268	34	55	55	11.3
LS 80 L	-	-	-	-	-	-	-	-	172	146	160	300	46	55	55	18
LS 90 L	-	-	-	-	-	-	-	-	184	156	160	349.5	58.5	55	55	24.2
LS 100 L	-	-	-	-	-	-	-	-	200	161	160	397.5	59.5	55	55	30
LS 112 MG	-	-	-	-	-	-	-	-	235	169	160	434	61	55	55	44.5
LS 132 S	-	-	-	-	-	-	-	-	235	169	160	457	61	55	55	48

# Electromechanical products

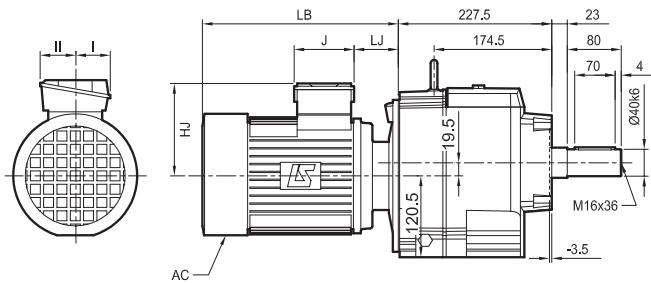
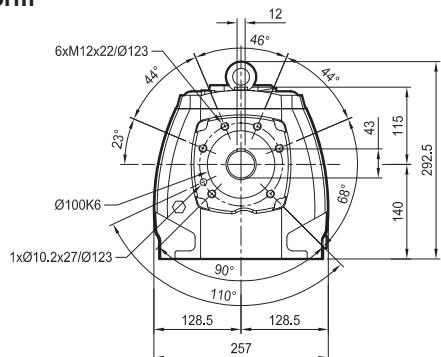
## Compabloc 3000

### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3333

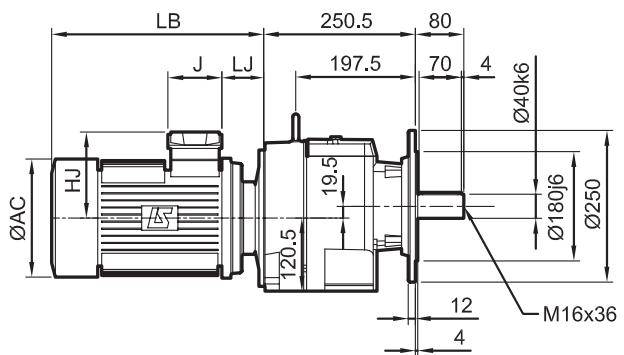
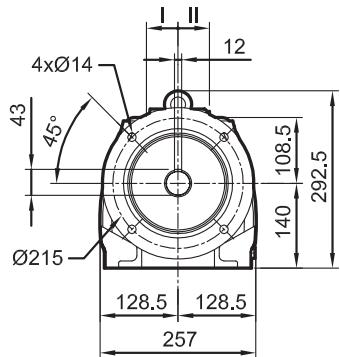
#### - BT faceplate form

Cb: 29 kg + Motor



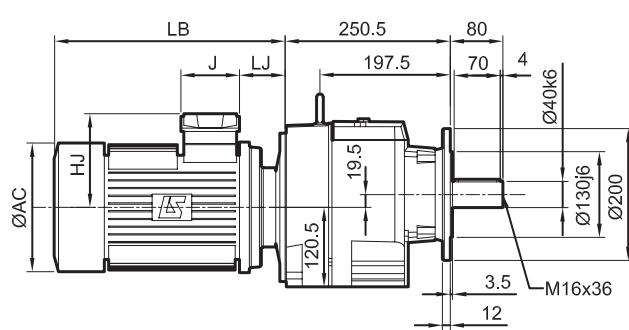
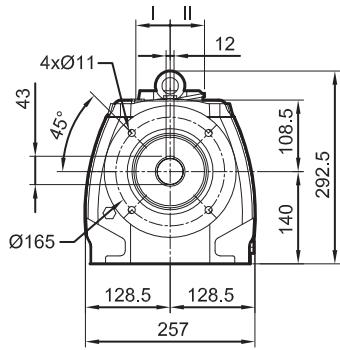
#### - BD1 flange

Cb: 33 kg + Motor



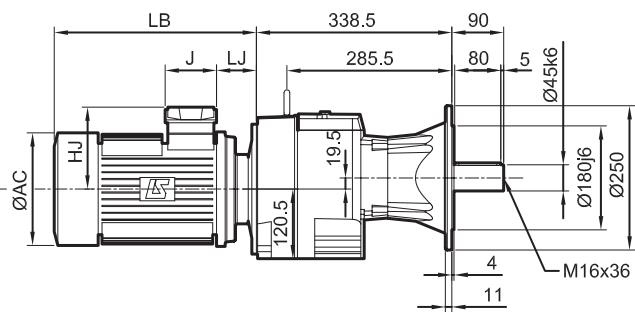
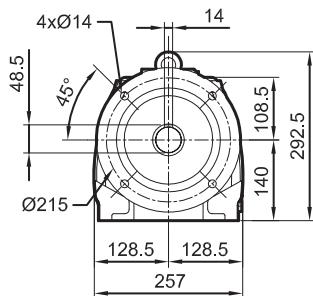
#### - BD2 flange

Cb: 32.5 kg + Motor



#### - BR flange

Cb: 44 kg + Motor



# Electromechanical products

## Compabloc 3000

### Dimensions

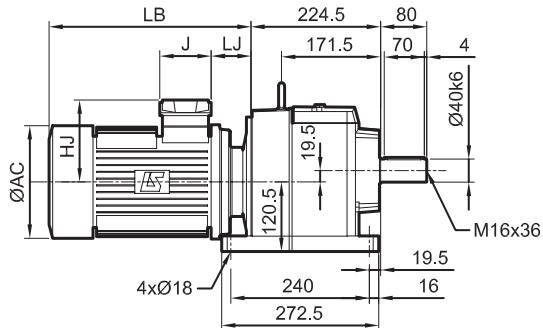
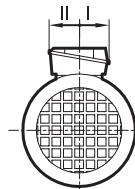
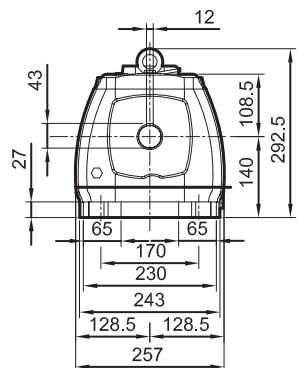
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3333

Dimensions in millimetres

#### - S foot mounted



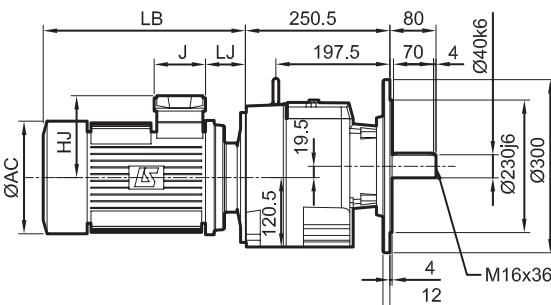
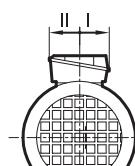
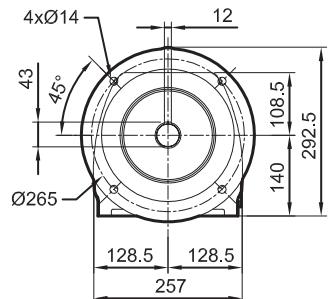
Cb: 30 kg + Motor



#### - Standard BS flange



Cb: 34 kg + Motor



Fr. size	4-pole motors										kg					
	LSES						LSES FCR									
	AC	HJ	J	LB	LJ	I	II	AC	HJ	J	LB	LJ	I	II		
LSES 80	170	135	86	284	63.5	43	43	11.7	172	146	160	345.5	42	55	55	18
LSES 90	190	135	86	286	67	43	43	15.2	184	156	160	345.5	54.5	55	55	24.2
LSES 100 LR	200	140	86	350.5	68	43	43	25.7	200	161	160	406	55.5	55	55	30
LSES 112 MU	235	149	86	367	69.5	43	43	35	235	169	160	430	58	55	55	44.5
LSES 132 MU	265	190	126	460	65	63	63	68	280	188	160	541	73	55	55	80

Fr. size	4-pole motors										kg					
	LS						LS FCR									
	AC	HJ	J	LB	LJ	I	II	AC	HJ	J	LB	LJ	I	II		
LS 71 L	140	109	86	213	45	43	43	8.3	140	135	160	264	21.5	55	55	11.3
LS 80 L	-	-	-	-	-	-	-	-	172	146	160	296	42	55	55	18
LS 90 L	-	-	-	-	-	-	-	-	184	156	160	345.5	54.5	55	55	24.2
LS 100 L	-	-	-	-	-	-	-	-	200	161	160	393.5	55.5	55	55	30
LS 112 MG	-	-	-	-	-	-	-	-	235	169	160	430	58	55	55	44.5
LS 132 M	-	-	-	-	-	-	-	-	280	188	160	541	73	55	55	80

# Electromechanical products

## Compabloc 3000

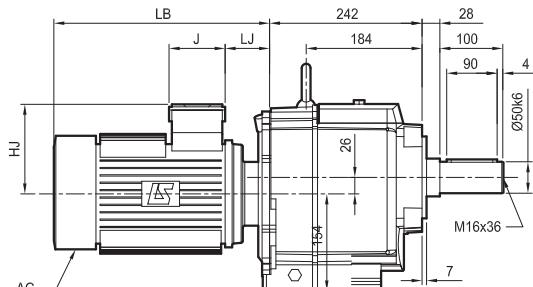
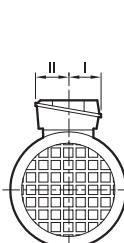
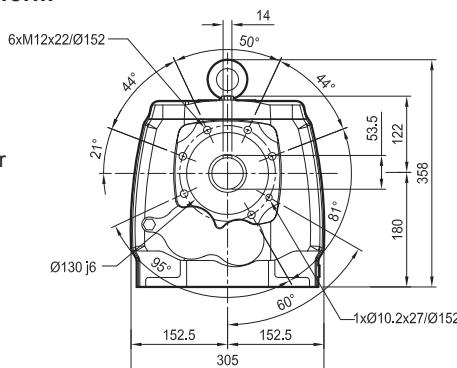
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3433

Dimensions in millimetres

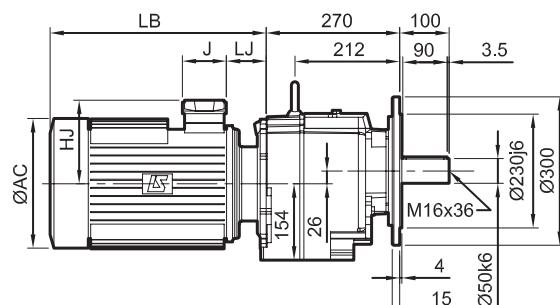
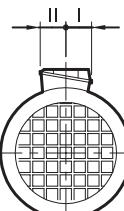
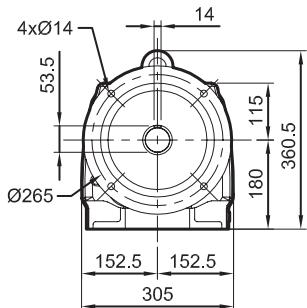
#### - BT faceplate form

 Cb: 48 kg + Motor



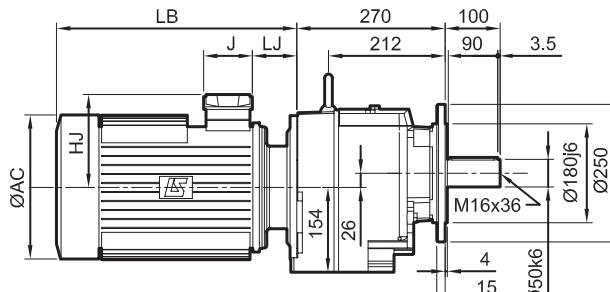
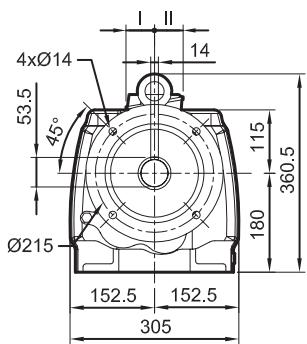
#### - BD1 flange

 Cb: 55 kg + Motor



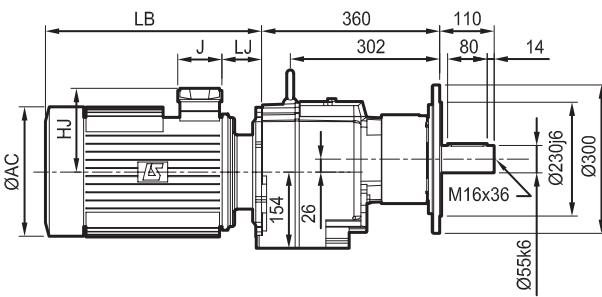
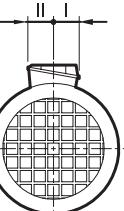
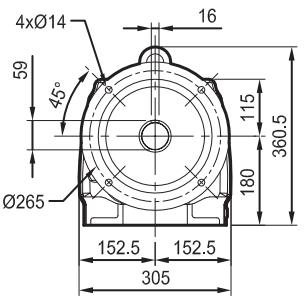
#### - BD2 flange

 Cb: 54 kg + Motor



#### - BR flange

 Cb: 72 kg + Motor



# Electromechanical products

## Compabloc 3000

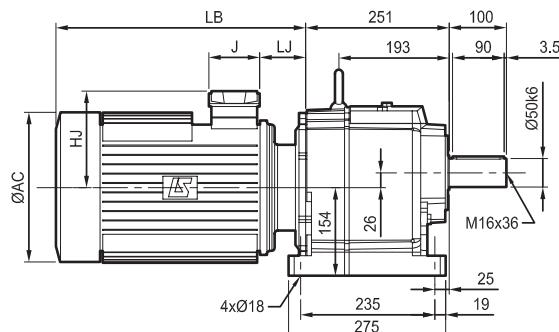
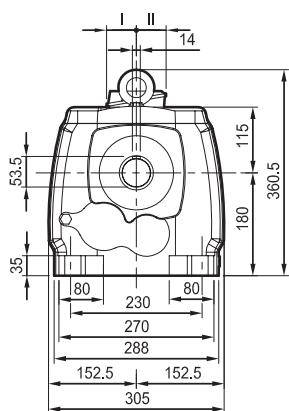
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3433

Dimensions in millimetres

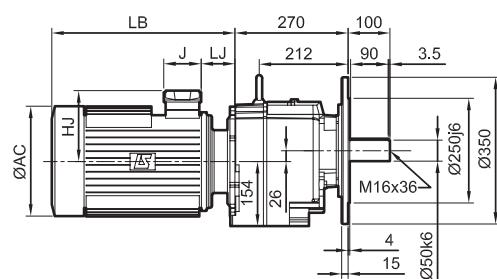
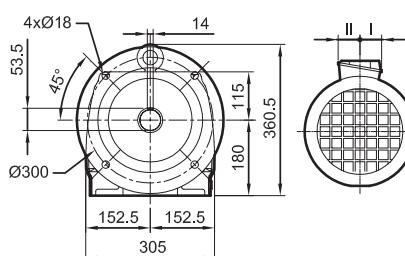
#### - S foot mounted

Cb: 50 kg + Motor



#### - Standard BS flange

Cb: 56 kg + Motor



Fr. size	4-pole motors																		LSES FCR						LSES FCPL					
	LSES						LSES FCR						LSES FCPL						kg	AC	HJ	J	LB	LJ	I	II	kg			
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg						
LSES 80 LG	170	135	86	288.5	68	43	43	11.7	172	146	160	345.5	46.5	55	55	18	-	-	-	-	-	-	-	-						
LSES 90 L	190	135	86	286	67	43	43	15.2	184	156	160	345.5	54.5	55	55	24.2	-	-	-	-	-	-	-	-						
LSES 100 LR	200	140	86	350.5	68	43	43	25.7	200	161	160	406	55.5	55	55	30	-	-	-	-	-	-	-	-						
LSES 112 MU	235	149	86	367	69.5	43	43	35	235	169	160	434	62	55	55	44.5	-	-	-	-	-	-	-	-						
LSES 132 MU	265	190	126	464	69	63	63	68	280	188	160	545	77	55	55	80	-	-	-	-	-	-	-	-						
LSES 160 L	312	222	126	508	60.8	63	63	91	316	231	160	620	96	55	55	110	345	235	134	681	56.8	92	63	140						
LSES 180 LR	312	248	186	533	67.8	112	98	115	-	-	-	-	-	-	-	-	345	235	134	696	57	92	63	155						

Fr. size	4-pole motors															
	LS FCR						LS FCPL									
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg
LS 80 L	172	146	160	300.5	46.5	55	55	18	-	-	-	-	-	-	-	-
LS 90 L	184	156	160	345.5	54.5	55	55	24.2	-	-	-	-	-	-	-	-
LS 100 L	200	161	160	393.5	55.5	55	55	30	-	-	-	-	-	-	-	-
LS 112 MG	235	169	160	434	61	55	55	44.5	-	-	-	-	-	-	-	-
LS 132 M	280	188	160	545	77	55	55	80	-	-	-	-	-	-	-	-
LS 160 L	316	231	160	620	96	55	55	110	345	235	134	681	56.8	92	63	140
LS 180 LR	-	-	-	-	-	-	-	-	345	235	134	696	57	92	63	155

# Electromechanical products

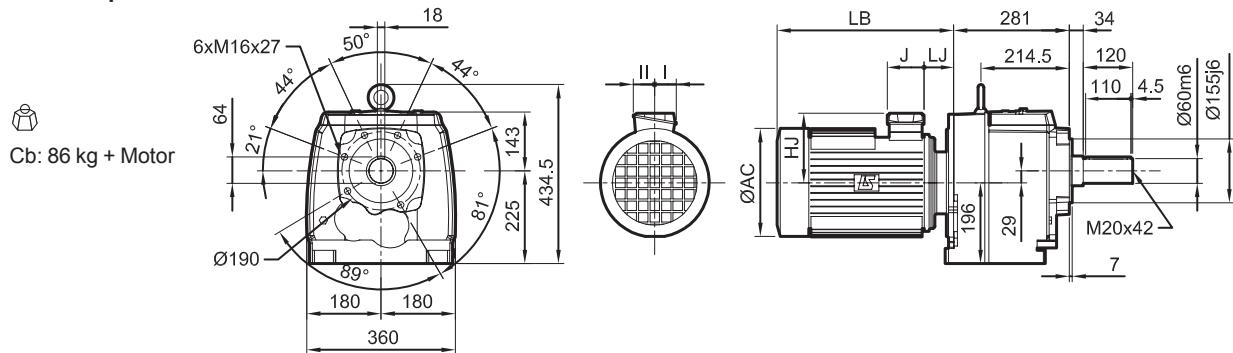
## Compabloc 3000

### Dimensions

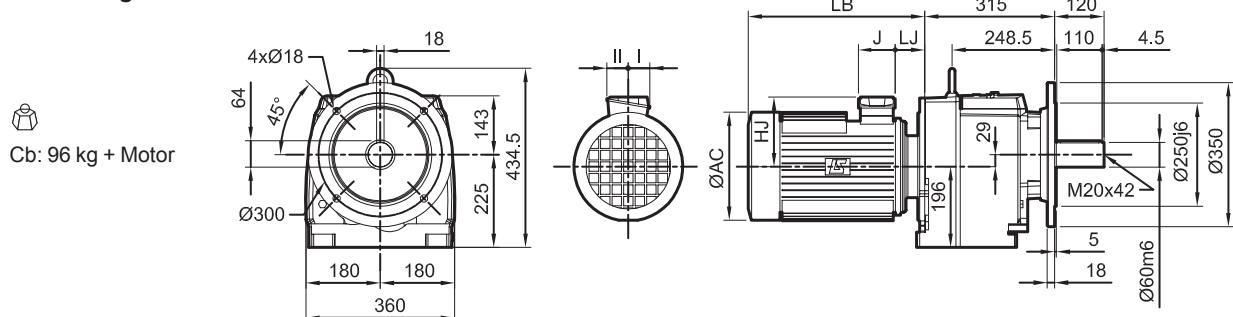
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3533

*Dimensions in millimetres*

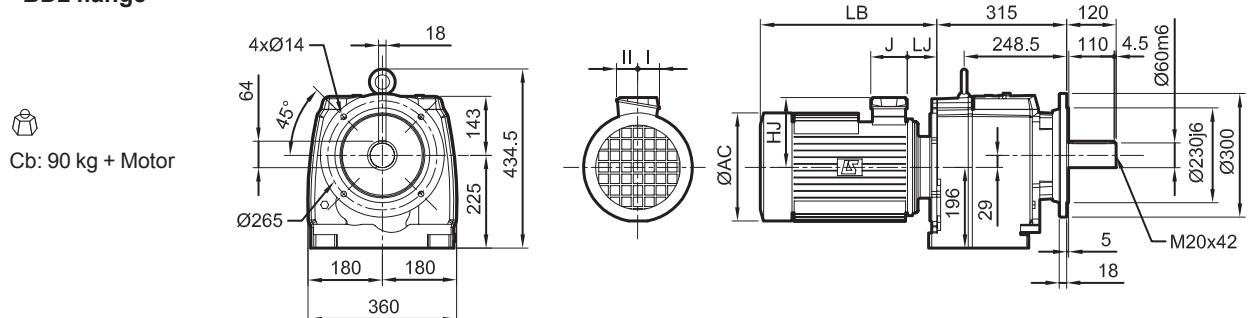
#### - BT faceplate form



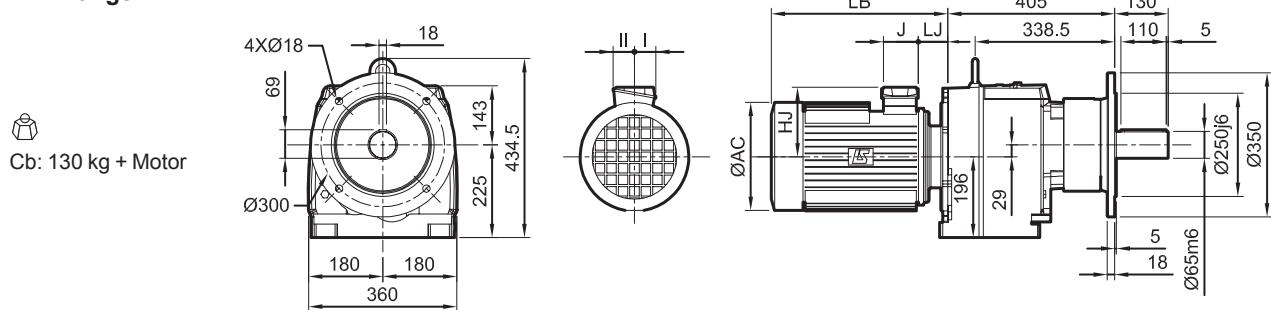
#### - BD1 flange



#### - BD2 flange



#### - BR flange



# Electromechanical products

## Compabloc 3000

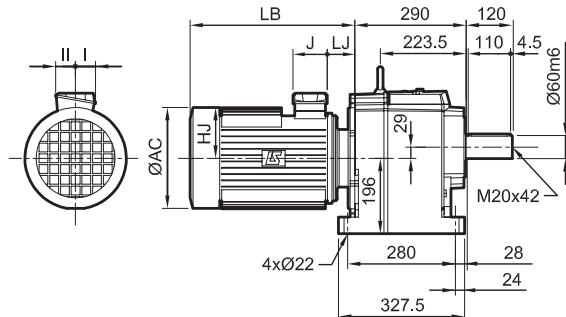
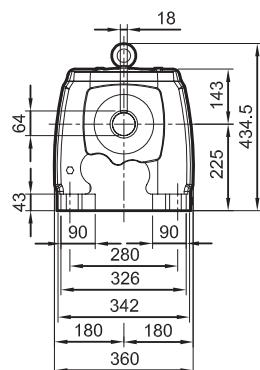
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3533

Dimensions in millimetres

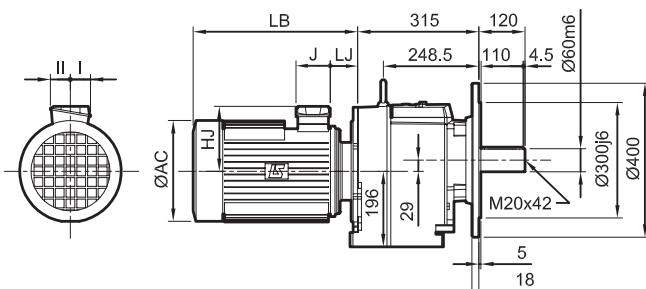
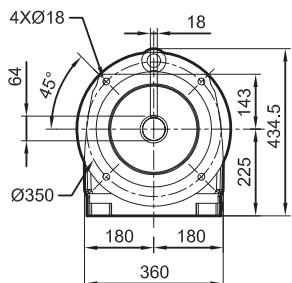
#### - S foot mounted

Cb: 90 kg + Motor



#### - Standard BS flange

Cb: 97 kg + Motor



Fr. size	4-pole motors																							
	LSES						LSES FCR						LSES FCPL											
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg
LSES 90 L	190	135	86	281	62	43	43	15.2	184	156	160	340.5	49.5	55	55	24.2	-	-	-	-	-	-	-	-
LSES 100 LR	200	140	86	345.5	63	43	43	25.7	200	161	160	401	50.5	55	55	30	-	-	-	-	-	-	-	-
LSES 112 MU	235	149	86	362	64.5	43	43	35	235	169	160	425	53	55	55	44.5	-	-	-	-	-	-	-	-
LSES 132 MU	265	190	126	455	60	63	63	68	280	188	160	536	56	55	55	80	-	-	-	-	-	-	-	-
LSES 160 L	312	222	126	499	51.8	63	63	91	316	231	160	611	87	55	55	110	312	235	134	672	47.8	92	63	140
LSES 180 LR	312	248	186	524	58.8	112	98	115	-	-	-	-	-	-	-	-	345	235	134	687	48	92	63	150
LSES 200 LR	350	256	186	618	67.5	112	98	164	-	-	-	-	-	-	-	-	384	256	186	826	67.5	111	98	240

Fr. size	4-pole motors														
	LS FCR						LS FCPL								
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	I	II	kg
LS 90 L	184	156	160	340.5	49.5	55	55	24.2	-	-	-	-	-	-	-
LS 100 L	200	161	160	388.5	50.5	55	55	30	-	-	-	-	-	-	-
LS 112 MG	235	169	160	425	53	55	55	44.5	-	-	-	-	-	-	-
LS 132 M	280	188	160	536	56	55	55	80	-	-	-	-	-	-	-
LS 160 LR	316	231	160	611	87	55	55	110	312	235	134	672	47.8	92	63
LS 180 LR	-	-	-	-	-	-	-	-	345	235	134	687	48	92	63
LS 200 LT	-	-	-	-	-	-	-	-	384	256	186	826	67.5	111	98

# Electromechanical products

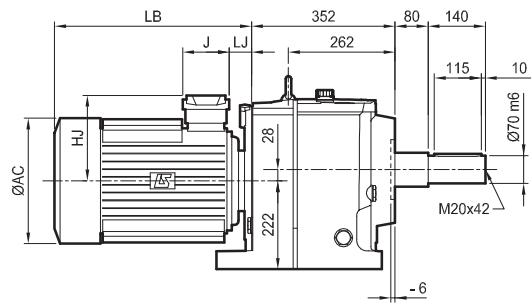
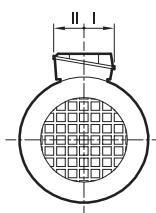
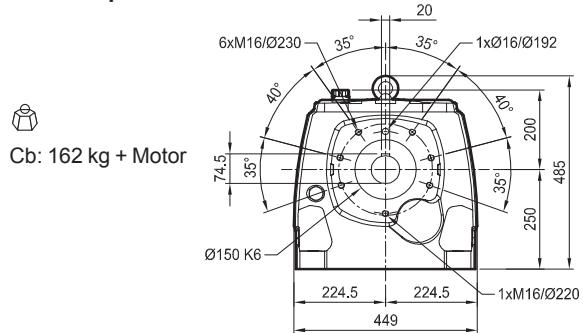
## Compabloc 3000

### Dimensions

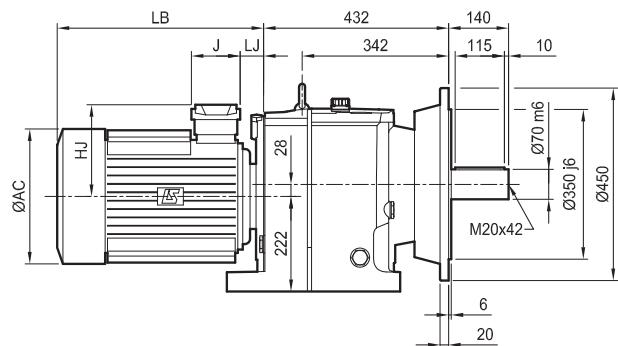
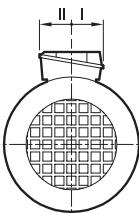
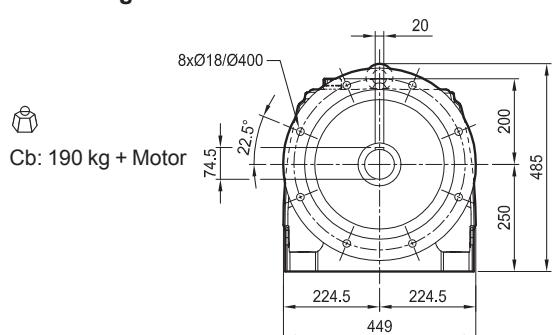
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3633

Dimensions in millimetres

#### - BT faceplate form



#### - BD1 flange



# Electromechanical products

## Compabloc 3000

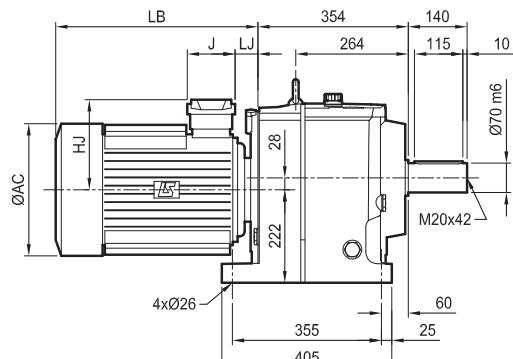
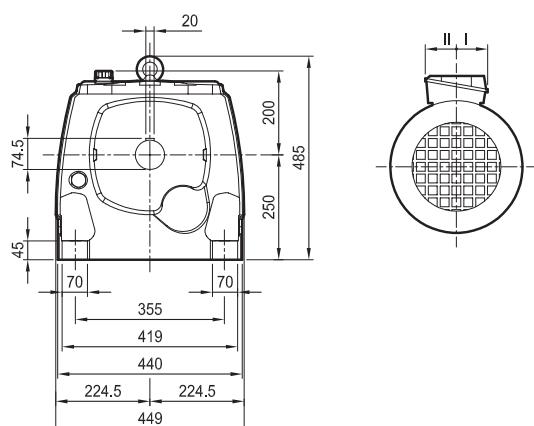
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3633

Dimensions in millimetres

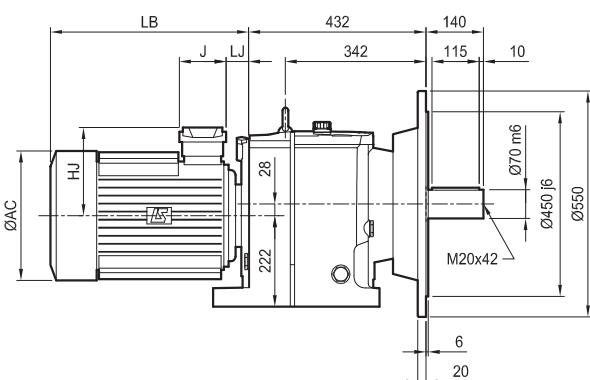
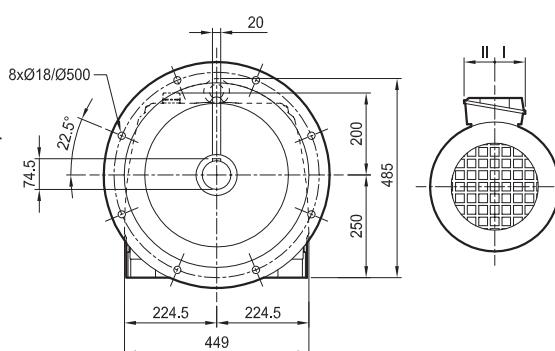
#### - S foot mounted

Cb: 162 kg + Motor



#### - Standard BS flange

Cb: 196 kg + Motor



#### 4-pole motors

Fr. size	LSES							LSES FCR							LSES FCPL							kg		
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LSES 90 L	190	135	86	272	53	43	43	15.2	190	156	160	331.5	48.5	55	55	24.2	-	-	-	-	-	-	-	-
LSES 100 LR	200	140	86	336.5	54	43	43	25.7	200	161	160	394.5	52	55	55	30	-	-	-	-	-	-	-	-
LSES 112 MU	235	149	86	353	55.5	43	43	35	235	169	160	421	51	55	55	44.5	-	-	-	-	-	-	-	-
LSES 132 MU	265	190	126	446	51	63	63	68	280	188	160	527	66.5	55	55	80	-	-	-	-	-	-	-	-
LSES 160 L	312	222	126	490	42.8	63	63	91	316	231	160	564	58	55	55	110	345	235	134	672	47.8	92	63	140
LSES 180 LR	312	248	186	515	49.8	112	98	115	-	-	-	-	-	-	-	-	345	235	134	678	39	92	63	150
LSES 200 LR	350	256	186	609	58.5	112	98	164	-	-	-	-	-	-	-	-	384	256	186	774	84.5	111	98	240
LSES 225 MR	390	310	231	674	59.5	119	142	235	-	-	-	-	-	-	-	-	410	276	186	837	82	111	98	320

#### 4-pole motors

Fr. size	LS FCR							LS FCPL							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LS 90 L	190	156	160	331.5	48.5	55	55	24.2	-	-	-	-	-	-	-	-
LS 100 L	200	161	160	382	52	55	55	30	-	-	-	-	-	-	-	-
LS 112 MG	235	169	160	421	51	55	55	44.5	-	-	-	-	-	-	-	-
LS 132 M	280	188	160	527	66.5	55	55	80	-	-	-	-	-	-	-	-
LS 160 L	316	231	160	564	58	55	55	110	345	235	134	672	47.8	92	63	140
LS 180 LR	-	-	-	-	-	-	-	-	345	235	134	678	39	92	63	150
LS 200 LT	-	-	-	-	-	-	-	-	384	256	186	774	84.5	111	98	240
LS 225 MR	-	-	-	-	-	-	-	-	410	276	186	837	82	111	98	320

# Electromechanical products

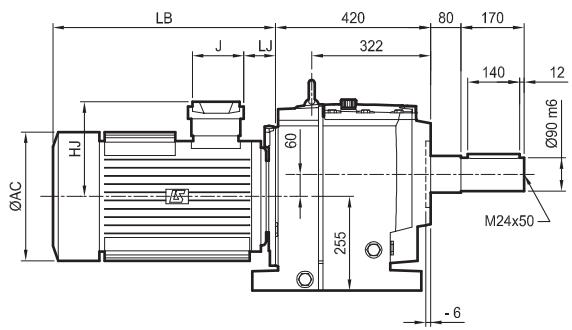
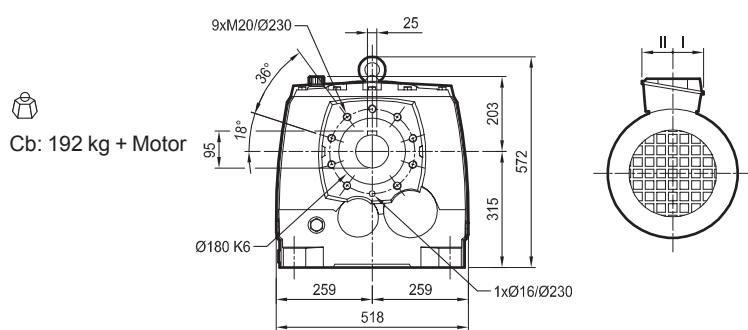
## Compabloc 3000

### Dimensions

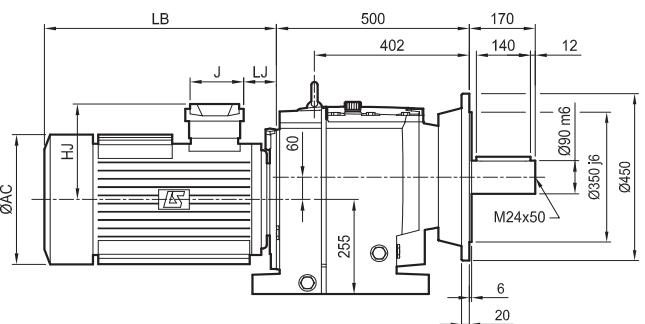
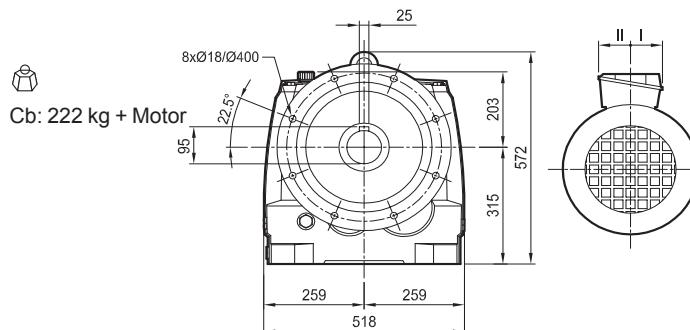
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3733

Dimensions in millimetres

#### - BT faceplate form



#### - BD1 flange



# Electromechanical products

## Compabloc 3000

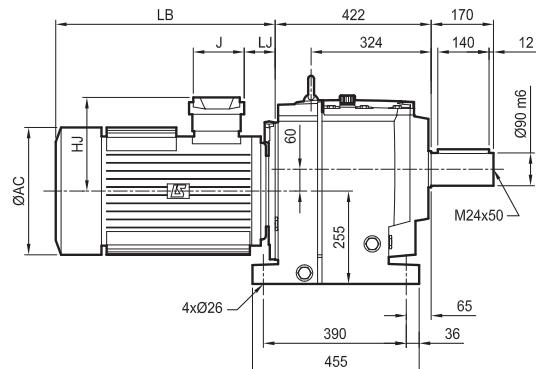
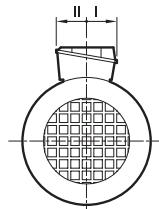
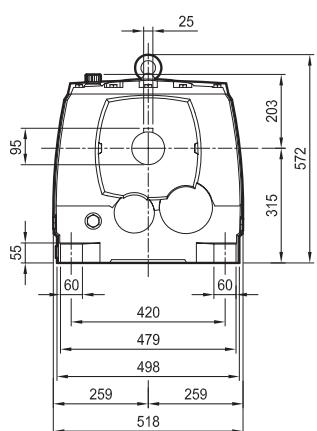
### Dimensions

Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3733

Dimensions in millimetres

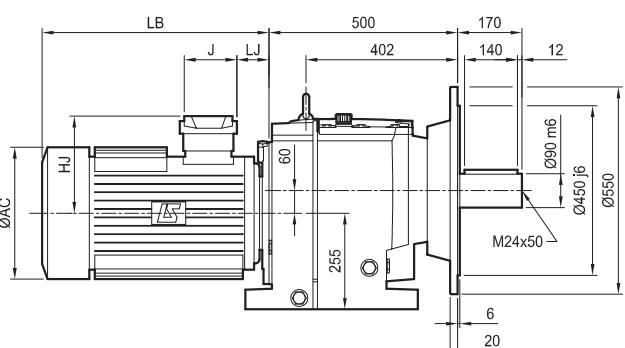
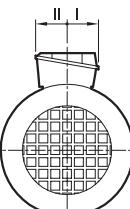
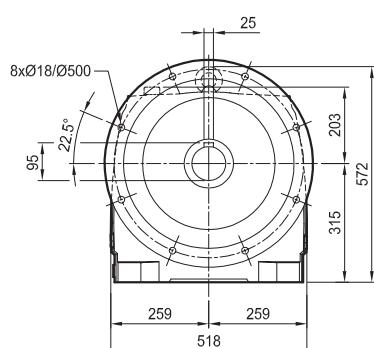
#### - S foot mounted

Cb: 192 kg + Motor



#### - Standard BS flange

Cb: 228 kg + Motor



#### 4-pole motors

Fr. size	LSES							LSES FCR							LSES FCPL							kg		
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LSES 90 L	190	135	86	272	53	43	43	15.2	190	156	160	331.5	48.5	55	55	24.2	-	-	-	-	-	-	-	-
LSES 100 LR	200	140	86	336.5	54	43	43	25.7	200	161	160	394.5	52	55	55	30	-	-	-	-	-	-	-	-
LSES 112 MU	235	149	86	353	55.5	43	43	35	235	169	160	421	51	55	55	44.5	-	-	-	-	-	-	-	-
LSES 132 MU	265	190	126	446	51	63	63	68	280	188	160	527	66.5	55	55	80	-	-	-	-	-	-	-	-
LSES 160 L	312	222	126	490	42.8	63	63	91	316	231	160	564	58	55	55	110	345	235	134	672	47.8	92	63	140
LSES 180 LR	312	248	186	515	49.8	112	98	115	-	-	-	-	-	-	-	-	345	235	134	678	39	92	63	150
LSES 200 LR	350	256	186	609	58.5	112	98	164	-	-	-	-	-	-	-	-	384	256	186	774	84.5	111	98	240
LSES 225 MR	390	310	231	674	59.5	119	142	235	-	-	-	-	-	-	-	-	410	276	186	837	82	111	98	320

#### 4-pole motors

Fr. size	LS FCR							LS FCPL							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LS 90 L	190	156	160	331.5	48.5	55	55	24.2	-	-	-	-	-	-	-	-
LS 100 L	200	161	160	382	52	55	55	30	-	-	-	-	-	-	-	-
LS 112 MG	235	169	160	421	51	55	55	44.5	-	-	-	-	-	-	-	-
LS 132 M	280	188	160	527	66.5	55	55	80	-	-	-	-	-	-	-	-
LS 160 L	316	231	160	564	58	55	55	110	345	235	134	672	47.8	92	63	140
LS 180 LR	-	-	-	-	-	-	-	-	345	235	134	678	39	92	63	150
LS 200 LT	-	-	-	-	-	-	-	-	384	256	186	774	84.5	111	98	240
LS 225 MR	-	-	-	-	-	-	-	-	410	276	186	837	82	111	98	320

# Electromechanical products

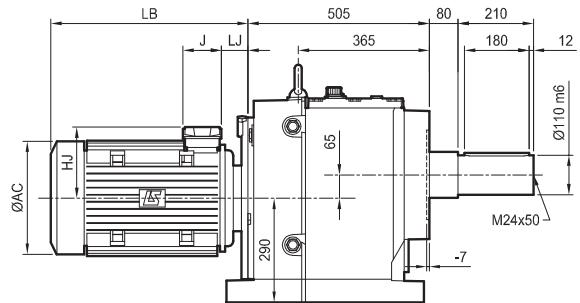
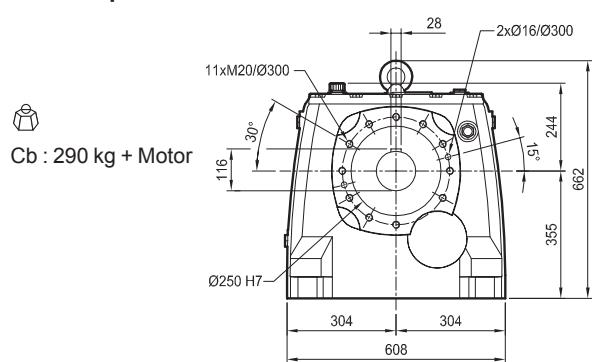
## Compabloc 3000

### Dimensions

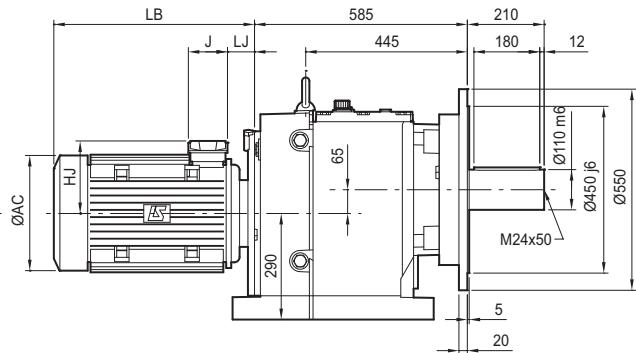
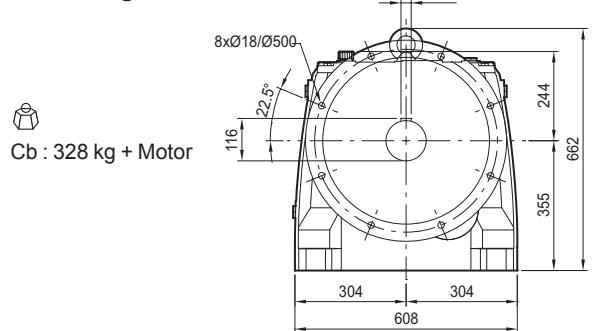
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3833

Dimensions in millimetres

#### - BT faceplate form



#### - BD1 flange



# Electromechanical products

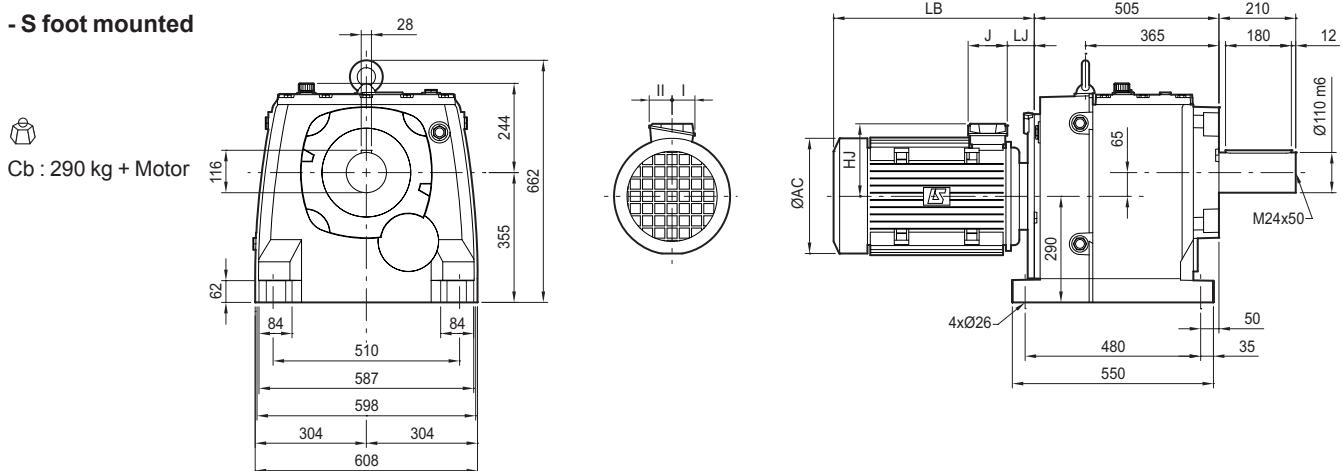
## Compabloc 3000

### Dimensions

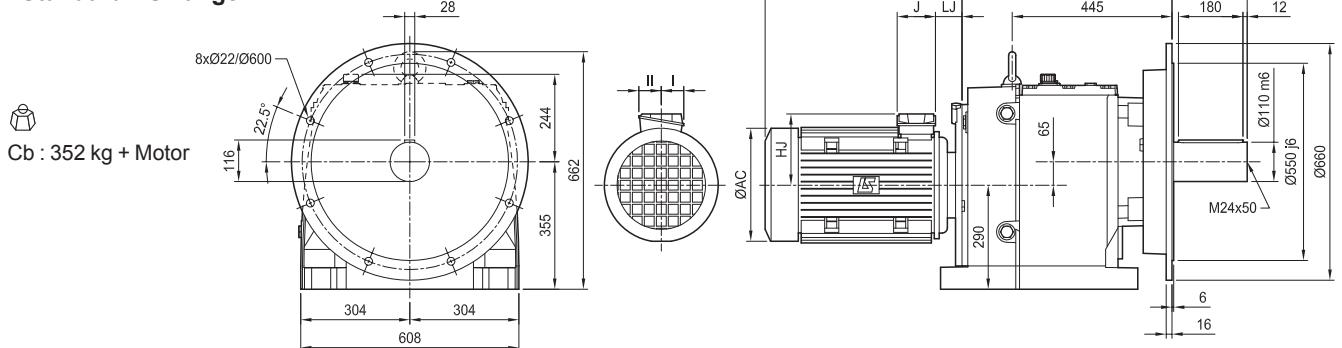
Dimensions of Compabloc (Cb) gearboxes, MI integral mounting,  
Cb 3833

Dimensions in millimetres

#### - S foot mounted



#### - Standard BS flange



#### 4-pole motors

Fr. size	LSES							LSES FCR							LSES FCPL							kg		
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LSES 132 MU	265	190	126	433	38	63	63	68	280	186	160	514	53.5	55	55	80	-	-	-	-	-	-	-	-
LSES 160	312	222	126	477	29.8	63	63	91	316	196	160	551	45	55	55	110	345	235	134	659	34.8	92	63	140
LSES 180 LR	312	248	186	502	36.8	112	98	115	-	-	-	-	-	-	-	-	345	235	134	665	26	92	63	150
LSES 200 LR	350	256	186	596	45.5	112	98	164	-	-	-	-	-	-	-	-	384	256	186	761	71.5	111	98	240
LSES 225 MR	390	310	231	661	46.5	119	142	235	-	-	-	-	-	-	-	-	410	276	186	824	69	111	98	320

#### 4-pole motors

Fr. size	LS FCR							LS FCPL							kg	
	AC	HJ	J	LB	LJ	I	II	kg	AC	HJ	J	LB	LJ	I	II	
LS 132 M	280	186	160	514	53.5	55	55	80	-	-	-	-	-	-	-	-
LS 160 L	316	196	160	551	45	55	55	110	345	235	134	659	34.8	92	63	140
LS 180 LR	-	-	-	-	-	-	-	-	345	235	134	665	26	92	63	150
LS 200 LT	-	-	-	-	-	-	-	-	384	256	186	761	71.5	111	98	240
LS 225 MR	-	-	-	-	-	-	-	-	410	276	186	824	69	111	98	320

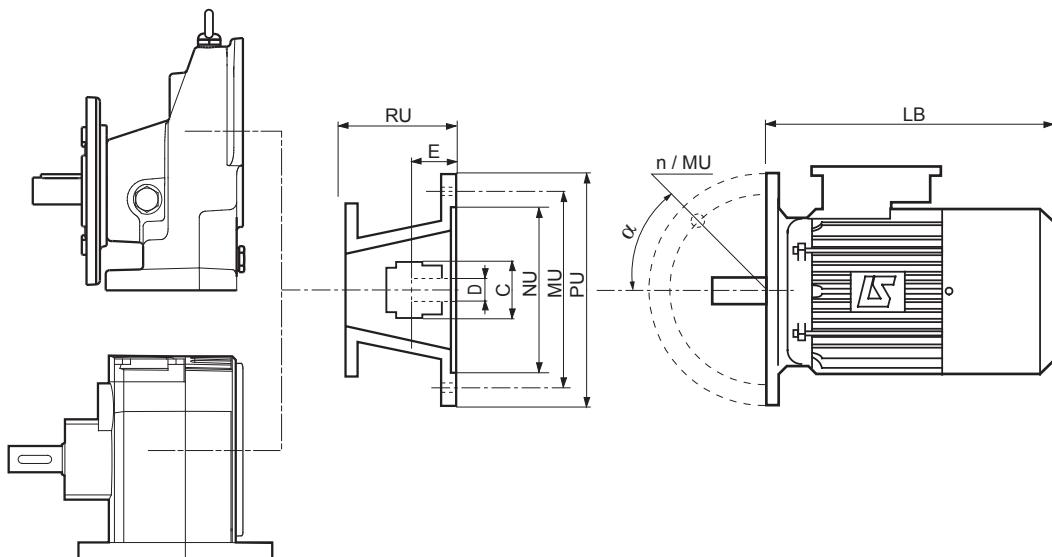
# Electromechanical products

## Compabloc 3000

### Dimensions

#### Dimensions of Compabloc (Cb) gearboxes, MU universal mounting

Dimensions in millimetres



Type	LS, LSES IM 3001										U-mounts										
	(IM B5) IEC										Cb 15-	Cb 30--	Cb 31--	Cb 32--	Cb 33--	Cb 34--	Cb 35-	Cb 36/37--	Cb 38-		
	Ø D	E	LB <sup>1</sup> /LB <sup>2</sup>	LB <sup>3</sup> FMC/FCR/FCPL	Ø MU	Ø NU	Ø PU	n	α°	Ø C	RU	Ø C	RU <sup>3</sup>	Ø C	RU <sup>3</sup>	Ø C	RU	Ø C	RU	Ø C	RU
LS56M	9j6	20	156/134	206/-/	FF100	80	120	4	45	-	50	-	-	-	-	-	-	-	-	-	-
LS63M	11j6	23	172/165	222/-/	FF115	95	140	4	45	-	50	-	60	-	-	-	-	-	-	-	-
LS71L	14j6	30	183	233/271/-	FF130	110	160	4	45	-	50	-	60/73	65/-	122/72	65/-	122/72	65	122	65	122
LSES80LG	19j6	40	247	-/292/-	FF165	130	200	4	45	-	-	-	90/73	65/-	130/83	65/-	130/83	65	130	65	130
LSES90L	24j6	50	265	-/324/-	FF165	130	200	4	45	-	-	-	-	65/-	130/83	65/-	130/83	65	130	65	121
LSES100LR	28j6	60	309	-/388/-	FF215	180	250	4	45	-	-	-	-	65/-	144/92	65/-	144/92	65	144	65	144
LSES112MU	28j6	60	333	-/425/-	FF215	180	250	4	45	-	-	-	-	65/-	144/92	65/-	144/92	65	144	65	144
LSES132MU	38k6	80	412	-/532/-	FF265	230	300	4	45	-	-	-	-	-	-	-	-	65	162	65	169
LSES160L	42k6	110	495	-/567/668	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	183
LSES180LR	48k6	110	520	-/-683	FF300	250	350	4	45	-	-	-	-	-	-	-	-	95	194	95	183
LSES200LR	55m6	110	620	-/-828	FF350	300	400	4	45	-	-	-	-	-	-	-	-	95	194	95	199
LSES225'MR	60m6	140	676	-/-953	FF400	350	450	8	22.5	-	-	-	-	-	-	-	-	-	-	120	311
LSES250'ME	65m6	140	810	-/-1180	FF500	450	550	8	22.5	-	-	-	-	-	-	-	-	-	-	120	328
LSES280'MD	75m6	140	870	-/-1246	FF500	450	550	8	22.5	-	-	-	-	-	-	-	-	-	-	120	328
LSES315'SP	80m6	170	947	-/NC <sup>2</sup>	FF600	550	660	8	22.5	-	-	-	-	-	-	-	-	-	-	-	200
																					366

LB<sup>1</sup>: ventilated motor - LB<sup>2</sup>: non-ventilated motor

1. Horizontally mounted foot and flange mounted motors (B35). Provision of a motor support is recommended.

2. NC : consult Leroy-Somer

3. RU : MU / MU new 2012

	Cb									
	15-	30-	31--	32--	33--	34--	35-	36--	37--	38--
MU max (kg)	0.6	3	4	8	14	20	35	75	75	117
LS max (kg)	10	30	65	70	120	150	205	350	350	350

# **Electromechanical products**

## **Compabloc 3000**

### **Notes**

# **Electromechanical products**

## **Compabloc 3000**

### **Notes**



# International network

[www.leroy-somer.com](http://www.leroy-somer.com)

**ALGERIA**  
MOTEURS LEROY-SOMER  
INTERNATIONAL DIVISION (FRANCE)

**AUSTRALIA**  
LEROY-SOMER PTY LTD

**AUSTRIA**  
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**BELGIUM**  
LEROY-SOMER SA

**BRAZIL**  
LEROY-SOMER DIVISION  
EMERSON ELECTRIC DO BRASIL LTDA.

**CANADA**  
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LEROY SOMER DANMARK A/S

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INTERNATIONAL DIVISION (FRANCE)

**FRANCE**  
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**GERMANY**  
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**GREECE**  
LEROY SOMER LTD

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EMERSON ELECTRIC CO

**ITALY**  
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LEROY-SOMER DIVISION  
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**KOREA**  
LEROY-SOMER DIVISION  
EMERSON ELECTRIC (KOREA) LTD

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