LEROY SOMER®

Réf. 1223 GB - 1.33 / c - 3.00

COMPABLOC 1700

Helical inline gearmotor

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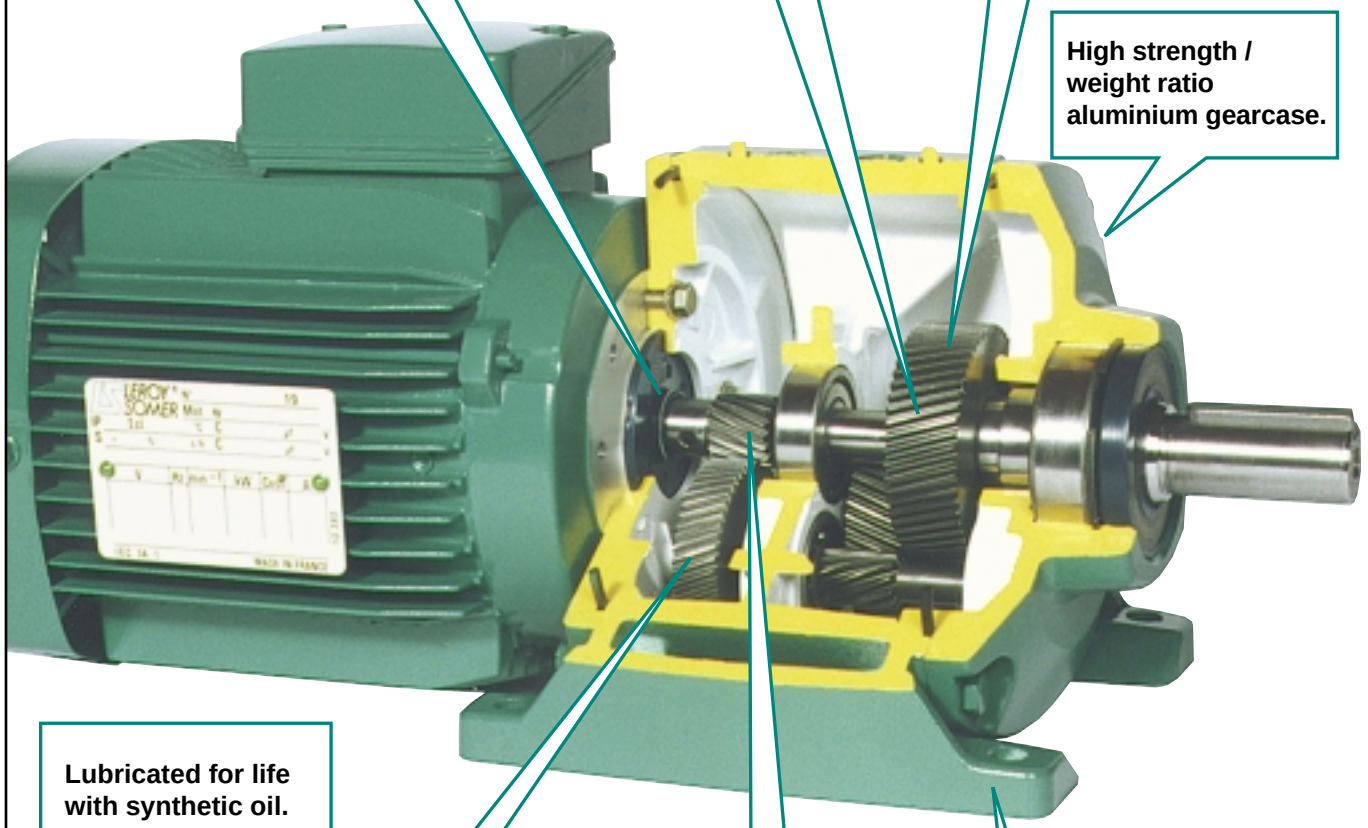
Low noise inline gearmotor range

Aluminium gearcase
1/1,6 to 1/160 reduction ratios
High reverse efficiency



Double lip-seal on heat - treated, ground shaft.

Gears & shafts in Ni - Cr - Mo steel for long life.

Case - hardened, superfinished helical gear teeth.

High strength / weight ratio aluminium gearcase.

Lubricated for life with synthetic oil.

All gears heat - shrunk on self - locking tapered shafts for high overload capability.

The special finish to the gears ensures silent operation.

Wide range of mounting options : feet, flanges - input shaft.

Selection

AGMA class 1 - Service factor 1

4-pole LS motors (1450 min^{-1}) kW / frame size

2 & 3 stages

Output speed min^{-1}	Reduction index	Power kW						
		0.06	0.09	0.12	0.18	0.25	0.37	0.55
		3-phase type						
		LS 56		LS 63		LS 71		
		Single phase type						
		LS 56 P	LS 63 P		LS 71 P			
9,3	156,5							
10,4	132,1							
11,8	123,3							
13,1	110,3							
16,6	99,5							
16	90,4							
17,9	81,2							
20,8	69,8		CB 1703					
22,9	63,4							
26	55,8							
28,4	51							
31,9	45,5							
36,1	40,1							
40,7	35,6							
46,3	31,3							
52	27,9							
58,7	24,7							
65,6	22,1							
72,9	19,9							
80,1	18,1							
89	16,3							
104	14		CB 1702					
114	12,7							
129	11,2							
142	10,2							
159	9,1							
181	8							
204	7,1							
230	6,3							

1 stage

179	8,1							
201	7,2							
227	6,4							
254	5,7							
279	5,2							
309	4,7							
345	4,2							
403	3,6		CB 1701					
439	3,3							
500	2,9							
537	2,7							
604	2,4							
690	2,1							
806	1,8							
906	1,6							

Exact reductions

Type	Reduction indices																										
	160	**140**	**125**	**112**	**100**	**90**	**80**	**71**	**63**	**56**	**50**	**45**	**40**	**35,5**	**31,5**	**28**	**25**	**22,4**	**20**	**18**	**16**	**14**	**12,5**	**11,2**	**10**	**9**	**8**	**7,1**	**6,3**
Cb 1703	156,5	139,1	123,3	110,3	99,5	90,4	81,2	69,8	63,4	55,8	51	45,5	40,1	35,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cb 1702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31,3	27,9	24,7	22,1	19,9	18,1	16,3	14	12,7	11,2	10,2	9,1	8	7,1	6,3

Type	**8**	**7,1**	**6,3**	**5,6**	**5**	**4,5**	**4**	**3,55**	**3,15**	**2,8**	**2,5**	**2,24**	**2**	**1,8**	**1,6**
Cb 1701	8,1	7,2	6,4	5,7	5,2	4,7	4,2	3,6	3,3	2,9	2,7	2,4	2,1	1,8	1,6

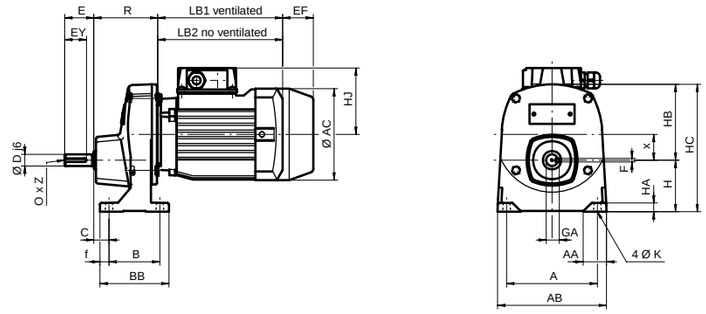
4-pole LS brake motors (kW / frame size)

	Power kW						
	0,06	0,09	0,12	0,18	0,25	0,37	0,55
	3-phase type						
FMC	56	56	63	63	71	-	-
FAST	-	-	-	-	71	71	71
	Single phase type						
FMC	56 P	63 P	63 P	71 P	71 P	-	-

Dimensions

Integral mounting I

Feet S
– 1 stage of reduction



Type	Geared motors with baseplate														Solid output shaft							Weight[1]
	R	A	AA	AB	B	BB	x	H	HB	HC	C	f	K	HA	D	E	EY	GA	F	O	Z	kg
Cb 1701	88	125	32,5	150	70	95	35,5	71	104,5	175,5	21	12,5	9	12	16	40	30	18	5	M5	15	2,05

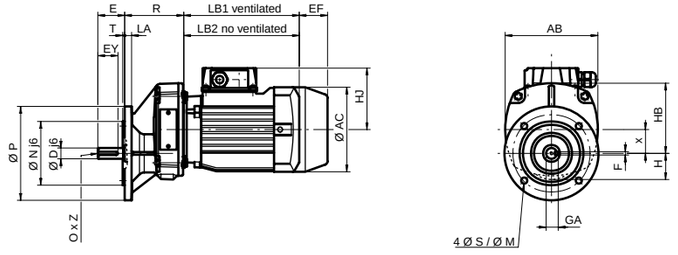
1. Geared motor only.

Motors & brakemotors dimensions

Frame size	Induction motors and brakes															
	LS 3-phase					LS single phase					Brakes					
					Weight max.					Weight max.	EF max.			Weight[1] kg		
	AC	HJ	LB1	LB2	kg	AC	HJ	LB1	LB2	kg	FMC	FAST	FCR	FMC	FAST	FCR
56	110	85	156	135	3,4	110	90	156	135	3,5	50	-	-	0,9	-	-
63	124	95	172	150	4,3	124	110	172	150	4,5	50	-	-	0,9	-	-
71[2]	140	102	183	155	6,5	140	129	183	155	7,5	50	28	90	0,9	2	2,5

1. Additional brake weight.
2. For LS 71 : 0,25 kW 6-pole 3-phase, 0,37 kW 4-pole single phase, 0,55 kW 4-pole 3-phase : dimension LB = + 9.

Flange BS, BD1, BD2
– 1 stage of reduction



Type	Geared motors with flange											Solid output shaft							Weight[1]
	R	AB	M	N	P	S	LA	T	HB	H	x	D	E	EY	GA	F	O	Z	kg
Cb 1701	88	138	115	95	140	9	10	3	104,5	39	35,5	16	40	30	18	5	M5	15	1,95

1. Geared motor only.

Type	Other possible flanges[1]											
	BD1						BD2					
	M1	N1	P1	S1	LA1	T1	M2	N2	P2	S2	LA2	T2
Cb 1701	100	80	120	7	10	3	130	110	160	9	10	3

1. The letters are indexed to differentiate them from the letters shown on the standard flange diagram.

Motors & brakemotors dimensions

Frame size	Induction motors and brakes															
	LS 3-phase					LS single phase					Brakes					
					Weight max.					Weight max.	EF max.			Weight[1] kg		
	AC	HJ	LB1	LB2	kg	AC	HJ	LB1	LB2	kg	FMC	FAST	FCR	FMC	FAST	FCR
56	110	85	156	135	3,4	110	90	156	135	3,5	50	-	-	0,9	-	-
63	124	95	172	150	4,3	124	110	172	150	4,5	50	-	-	0,9	-	-
71[2]	140	102	183	155	6,5	140	129	183	155	7,5	50	28	90	0,9	2	2,5

1. Additional brake weight.
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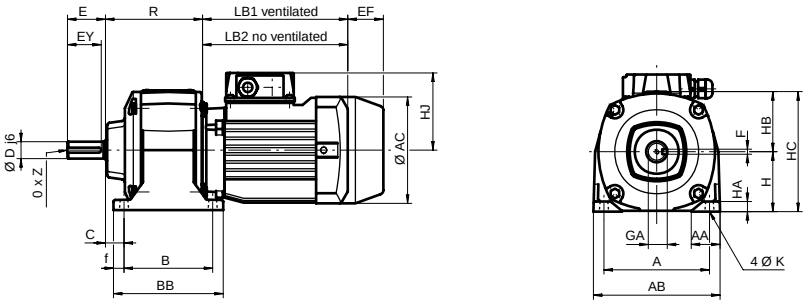
Dimensions

Integral mounting I

Feet S
– 2 & 3 stages of reduction



	Geared motors with baseplate													Solid output shaft							Weight [1]
Type	R	A	AA	AB	B	BB	H	HB	HC	C	f	K	HA	D	E	EY	GA	F	O	Z	kg
Cb 1702	115	125	31,5	150	105	130	71	72	143	22	12,5	9	12	20	45	40	22,5	6	M6	15	3,4
Cb 1703	135	125	31,5	150	125	150	71	72	143	22	12,5	9	12	20	45	40	22,5	6	M6	15	4,25

1. Geared motor only.

Motors & brakemotors dimensions

	Induction motors and brakes																
	LS 3-phase					LS single phase					Brakes						
Frame					Weight max.					Weight max.	EF max.			Weight [1] kg			
size	AC	HJ	LB1	LB2	kg	AC	HJ	LB1	LB2	kg	FMC	FAST	FCR	FMC	FAST	FCR	
56	110	85	156	135	3,4	110	90	156	135	3,5	50	-	-	0,9	-	-	
63	124	95	172	150	4,3	124	110	172	150	4,5	50	-	-	0,9	-	-	
71 [2]	140	102	183	155	6,5	140	129	183	155	7,5	50	28	90	0,9	2	2,5	

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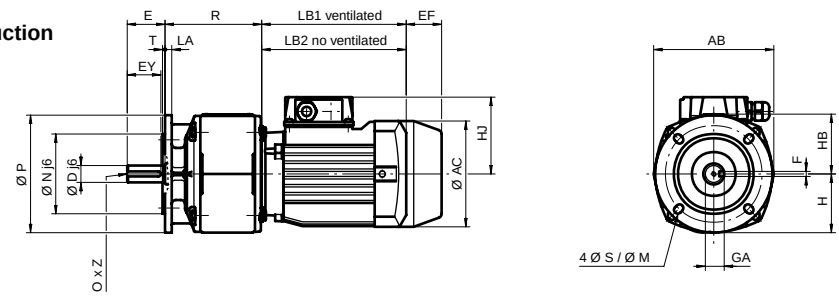
2. For LS 71 : 0,25 kW 6-pole 3-phase, 0,37 kW 4-pole single phase, 0,55 kW 4-pole 3-phase : dimension LB = + 9.

Flange BS, BD1, BD2
– 2 & 3 stages of reduction



	Geared motors with flange										Solid output shaft							Weight [1]
Type	R	AB	M	N	P	S	LA	T	HB	H	D	E	EY	GA	F	O	Z	kg
Cb 1702	115	143	115	95	140	9	8	3	72	69	20	45	40	22,5	6	M6	15	3,45
Cb 1703	135	143	115	95	140	9	8	3	72	69	20	45	40	22,5	6	M6	15	

1. Geared motor only.

	Other possible flanges [1]											
	BD1						BD2					
Type	M1	N1	P1	S1	LA1	T1	M2	N2	P2	S2	LA2	T2
Cb 1702/03	100	80	120	7	7	3	130	110	160	9	8	3

1. The letters are indexed to differentiate them from the letters shown on the standard flange diagram.

Motors & brakemotors dimensions

	Induction motors and brakes																
	LS 3-phase					LS single phase					Brakes						
Frame					Weight max.					Weight max.	EF max.			Weight [1] kg			
size	AC	HJ	LB1	LB2	kg	AC	HJ	LB1	LB2	kg	FMC	FAST	FCR	FMC	FAST	FCR	
56	110	85	156	135	3,4	110	90	156	135	3,5	50	-	-	0,9	-	-	
63	124	95	172	150	4,3	124	110	172	150	4,5	50	-	-	0,9	-	-	
71 [2]	140	102	183	155	6,5	140	129	183	155	7,5	50	28	90	0,9	2	2,5	

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