

Electromechanical products

Atmospheres containing explosive dust

Compabloc 3000



CATEGORY 3
ZONE 22
Non-conductive dust

General information



Compabloc 3000 geared motors with helical 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 gear box (n_S) in revolutions per minute (min^{-1}). The main characteristic of the 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 six sizes : 30, 31, 32, 33, 34, 35.
Rated output torque : from 10 N.m to 3 150 N.m.
Power rating : from 0.09 to 30 kW.
Reduction ratio : from 1.25 to 204.
High efficiency : 95 % to 98 %.
Reversible.
Silent operation.

Gearboxes within the Compabloc 3000 range benefit from the ATEX **certification** : INERIS n° 03 ATEX 3005 X.
For geared motors, this certification becomes : INERIS n° 03 ATEX 0013 X

Construction

Description of Compabloc (Cb) gearboxes - Zone 22



II 3D T 125 °C

Component	Materials	Remarks
Housing	Aluminium (30) Cast iron (31to 35)	<ul style="list-style-type: none"> - use of cast aluminium - use of ENGJL-200 cast iron (flake graphite : tensile strength 200 MPa) single component perlite to ensure the complete sealing of the unit - monobloc with reinforced internal ribbing to absorb vibrations and noise and to increase rigidity - with S baseplate, BT form or with BS, BD flanges. They are compact and meet industrial application-related requirements
Gears	Steel Ni Cr Mo	<ul style="list-style-type: none"> - cut by gear hob, they are heat treated by cementation, then undergo a final machining. The quality and the precision of the gear cutting allow maximum torque with minimum noise level
Seals	Nitrile	<ul style="list-style-type: none"> - sealing ring on the motor side - anti-dust lipseal collar according to DIN 3760 form AS - flat seal beneath the inspection door
Shaft	Steel	<ul style="list-style-type: none"> - grinding of the sealing surfaces - key according to ISO R773 - diameters tolerances in accordance with NFE 22-051 and ISO R775 - tapped holes at the shaft end in accordance with DIN 332 version D for mounting connecting equipment
Lubrication	Oil	<ul style="list-style-type: none"> - in accordance with ISO 6743 / 6 - supplied with the quantity of oil corresponding to the operating position, fitted with drain, level and vent plugs (Cb 30-- excluded)
Mounting		<ul style="list-style-type: none"> MI : geared motor with integral mounting MU : geared motor with IEC motor, with universal mounting
Standard motors		<ul style="list-style-type: none"> LS : - multi-voltage 220/380 V - 230/400 V - 240/415 V - sheet metal fan cover, fitted on request with a drip cover for operation in vertical position (shaft end facing down) - metal terminal box fitted with cable gland - IP 55 standard protection
Brake motors		FCR (see C.19) : failsafe brake asynchronous motor, ranging from 0.18 to 15 kW, IP 55 protection (LS 71 to 160)
Other motors		See pages D0.6 to D0.9.
Finish	Paint	Shade : RAL 6000 (green), system I (1 polyurethane vinyl layer of 25/30 µm)

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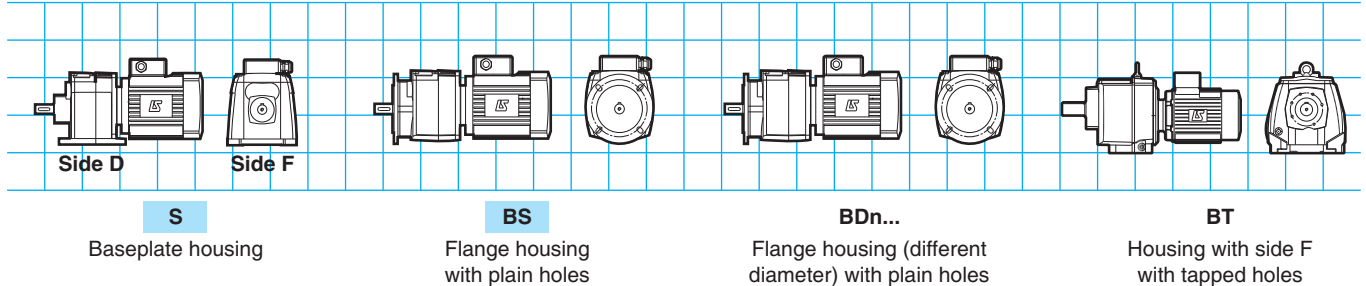


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Forms and operating positions

Standard position : gearbox seen from side F, motor to the rear, side D facing the ground.

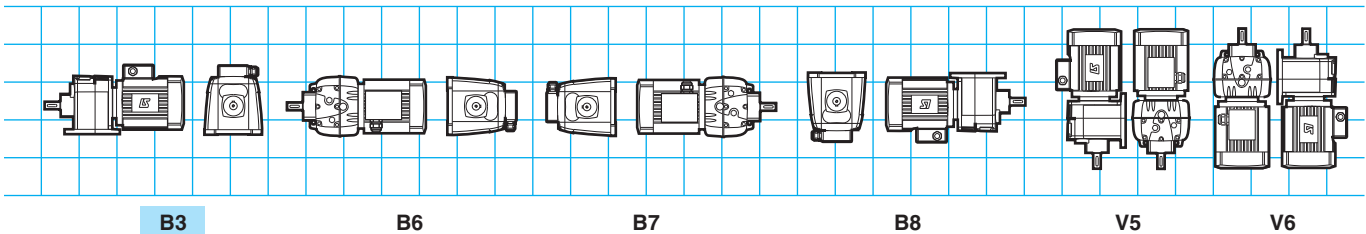
1 - Definition of mounting type : S, BS, BDn..., BT



2 - Definition of operating position

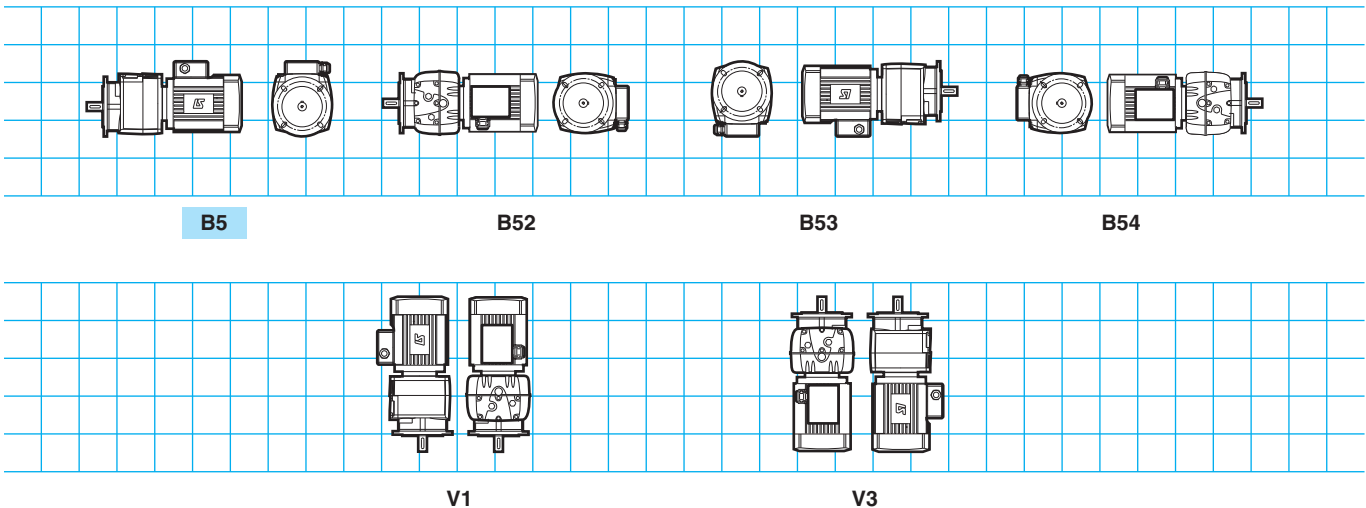
2.1- Mounting with S baseplate

Compabloc 1-train : Cb 3031 M* and 3131 to 3531, Compabloc multi-train : Cb 3032 and 3033 M* - Cb 3133 to 3533



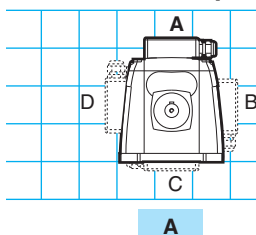
2.2 - Mounting with BS, BDn... flange, or BT form

Compabloc 1-train : Cb 3031 M* and 3131 to 3531, Compabloc multi-train : Cb 3032 and 3033 M* - Cb 3133 to 3533

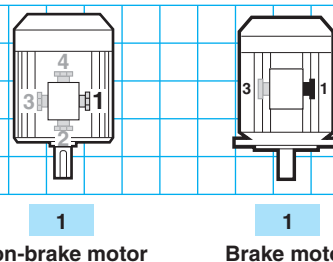


M* : For these multi-position geared motors (M) multipositions, the positions should only be specified if the following are necessary : vent plug on the gearbox and/or condensation water plug on the motor. Positions V3 and V6 MUST be specified.

3 - Terminal box positions



4 - Cable gland positions



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Adaptation possibilities

Leroy-Somer offers several drives for its gearboxes which meet a diverse range of needs. They are described below and offered in this catalogue.

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

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

• **fixed-speed 3-phase asynchronous motors :**

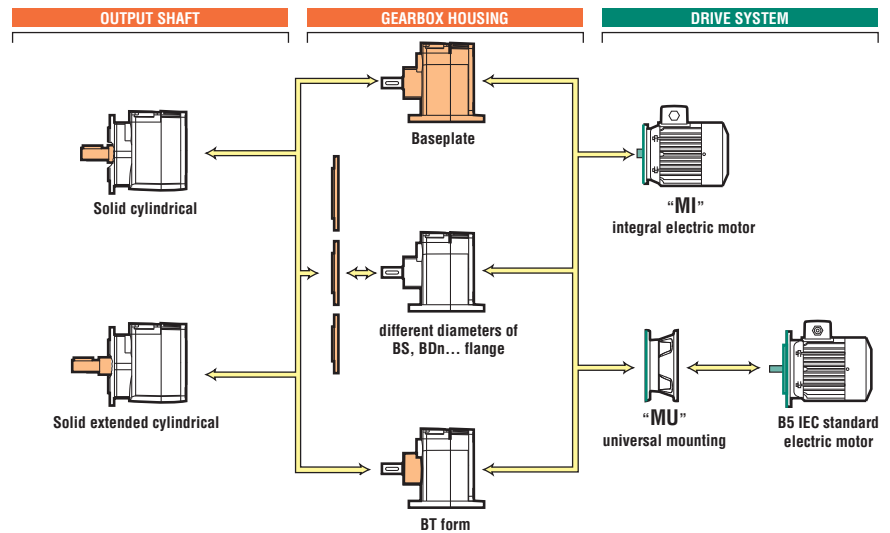
- LS motor from 0.06 to 30 kW,
- LS brake motor from 0.06 to 30 kW.

• **electronic variable speed motors :**
centralised system with separate drive

- LSMV motor from 0.25 to 30 kW,
- LSMV...FCR brake motor from 0.25 to 11 kW.

decentralised system with built-in drive

- VARMECA from 0.25 to 4 kW.



Designation / Coding

ATEX II 3D T 125°C	Cb	3333	B3	S	57.6	MI	4P	LS 80 L	0.9 kW	230/400 V 50 Hz	UG
Specific application	Gearbox type	Manufacturer index and size	Operating position	Mounting type	Exact reduction	Input type	No. of poles	Series, frame size, manufacturer index	Rated power	Voltage and mains frequency	Use

☞ *Codification example :*

Compabloc 3333 B3 0.9 kW, 25 min⁻¹, class III
ATEX zone 22

Designation

Cb 3333 B3 S 57.6 MI 4P, LS 80,
0.9 kW 230/400 V - 50 Hz - UG. - Zone 22

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 first in order of power and then in order of speed.

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Selection

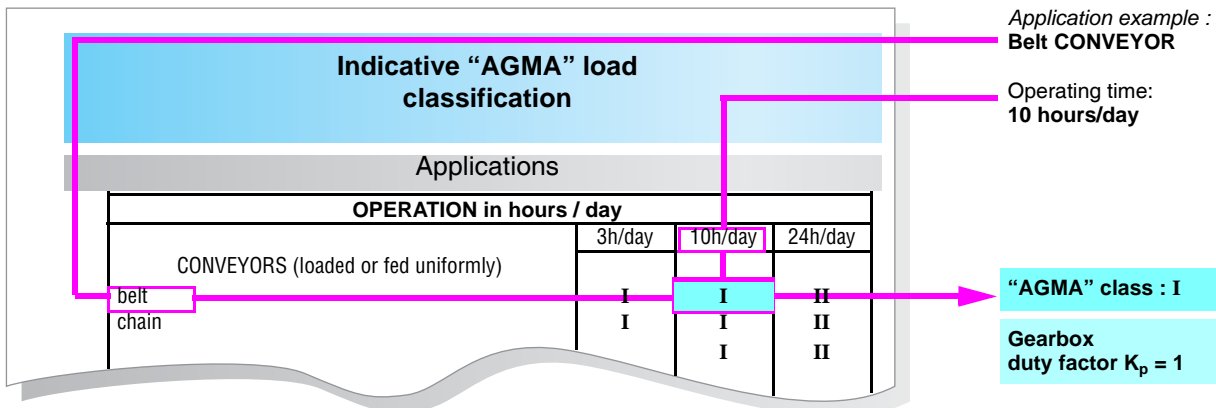
The selection of a gearbox or of a geared motor should take account of the application. Some of these applications are listed in the indicative "AGMA" load classification, page D0.10.

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

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

1st case. – Your application is listed

Follow the indicative "AGMA" load classification table, page D0.10 of this catalogue. ▼



2nd case. – Your application is not listed

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

Type of application	Daily operating time	"AGMA" class
Shock-free, few starts	10 hours / day	I
Damped shocks	10 hours / day	II
Shock-free, few starts	24 hours / day	III
Violent shocks, many starts	10 hours / day	III
Damped shocks	24 hours / day	III

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Conditions

Cb 3000 : S, BT, BS, BDn
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
Ex II 3D T 125°C - ZONE 22

Inputs	Maximum quantity by order					
	Cb 3031	Cb 31...3531	Cb 3032/3033	Cb 31/32/3333	Cb 3433	Cb 3533
MI LS	0.25-4 kW	5	5	5	5	5
	5.5-9 kW	-	5	-	5	5
	11-45 kW	-	-	-	-	1
MI LS FCR	0.25-9 kW	5	5	5	5	5
	11-15 kW	-	2	-	-	2
MI FLS	0.55-30 kW					
MI FLS FCR	0.55-9 kW					
MU LS	0.25-4 kW	5	5	5	5	5
	5.5-9 kW	-	5	-	5	5
	11-45 kW	-	-	-	-	1
MU LS FCR	0.25-9 kW	5	5	5	5	5
	11-15 kW	-	1	-	-	1
MU FLS	0.55-7.5 kW	2	2	2	2	2
	9-30 kW					
MU FLS FCR	0.55-9 kW					

	Mechanical options					
	S	BS	BD1	BD2	BD3	BT
Cb 3031					-	
Cb 31...3531					-	
Mounting	Page(s) of dimensions corresponding to mounting					
AP	-	-	-	-	-	-
MI	D2.18	D2.20	D2.21	D2.21	-	D2.19
MU	D2.32-33	D2.32-33	D2.32-33	D2.32-33	-	D2.32-33

	Mechanical options					
	S	BS	BD1	BD2	BD3	BT
Cb 3032/3033/						
Cb 32/33/34/3533					-	
Mounting	Page(s) of dimensions corresponding to mounting					
AP	-	-	-	-	-	-
MI	D2.22-23	D2.26-27	D2.28-29	D2.30	D2.31	D2.24-25
MU	D2.32-33	D2.32-33	D2.32-33	D2.32-33	D2.32-33	D2.32-33

Inputs	Electrical options				Brake options				
	4p / MI-MU	230/400 V	400 V Δ	PTO/CTP	DLRA	Drip cover	TRR	Different Mf	J01
LS	0.25-3 kW				-	-	-	-	-
	4-9 kW				-	-	-	-	-
	11-22 kW				-	-	-	-	-
	30-45 kW MI				-	-	-	-	-
	30-45 kW MU				-	-	-	-	-
FLS / FLS FCR	0.55-30 kW MU								
LS FCR	0.25-3 kW								
	4-5.5 kW								
	7.5-9 kW								
	11-15 kW								

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AGMA I, II, III

Cb 3031
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3031

		LS (kW)									
		0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3
		LS 4 p									
min ⁻¹	i	71			80		90			100	
176	8.13	1.27									
198	7.22	1.43									
223	6.4	1.61	1.07								
251	5.82	1.78	1.17								
277	5.17	2.00	1.32								
312	4.58	2.25	1.49								
351	4.08	2.53	1.67	1.10							
394	3.63	2.85	1.88	1.23							
441	3.24	3.19	2.11	1.38	1.01						
520	2.75	3.76	2.48	1.62	1.18	1.00					
561	2.55	4.05	2.68	1.75	1.28	1.08					
653	2.19	4.72	3.11	2.04	1.48	1.26					
730	1.96	5.28	3.49	2.28	1.66	1.41					
781	1.83	5.66	3.74	2.45	1.78	1.51					
929	1.54	6.72	4.43	2.9	2.11	1.79					
979	1.46	7.07	4.67	3.06	2.22	1.88					
1083	1.32	7.82	5.16	3.38	2.46	2.08					
4p LS brake											
FCR		71			80						

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CATEGORY 3
ZONE 22
Non-conductive dust

AGMA I, II, III

Cb 3032-3033
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3032 - 3033

		LS (kW)										
		0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3	
		LS 4 p										
min ⁻¹	i	71			80			90			100	
10.8	130											
12.2	115											
13.7	102											
15.4	91.1											
17.3	81.3											
20.3	69.1	0.86										
21.9	64.1	0.93										
25.5	55	1.08										
28.5	49.2	1.21	0.80									
30.6	45.9	1.30	0.86									
36.3	38.7	1.54	1.01									
38.2	36.7	1.62	1.07									
Cb 3033												
31	45.4	1.31	0.87									
34.8	40.3	1.47	0.97									
39.3	35.7	1.66	1.10									
43.3	32.5	1.82	1.20									
48.7	28.8	2.05	1.35									
54.9	25.6	2.30	1.52	1.00								
61.7	22.8	2.58	1.71	1.12	0.81							
69.4	20.2	2.90	1.91	1.25	0.91							
77.8	18.1	3.24	2.14	1.40	1.02	0.86						
91.5	15.4	3.79	2.51	1.64	1.19	1.01						
98.7	14.2	4.08	2.70	1.77	1.29	1.09						
115	12.2	4.73	3.13	2.05	1.49	1.26						
129	10.9	5.28	3.49	2.28	1.66	1.41						
138	10.2	5.65	3.73	2.44	1.78	1.50						
164	8.59	6.67	4.40	2.88	2.10	1.78						
172	8.16	7.01	4.63	3.03	2.21	1.87						
190	7.38	7.70	5.09	3.33	2.43	2.05						
4p LS brake												
FCR		71			80							



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AGMA I, II, III

Cb 3131
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3131

		LS (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	
		LS 4 p													
min ⁻¹	i	71			80			90			100		112	132	
181	7.91	6.54	2.70												
200	7.17	5.93	2.97												
229	6.25	5.17	3.41	2.23	1.63	1.38									
251	5.69	5.67	3.75	2.45	1.79	1.51									
290	4.92	6.57	4.34	2.84	2.07	1.75	1.43	1.04	0.88						
326	4.38	7.36	4.86	3.18	2.32	1.96	1.60	1.17	0.98	0.80					
364	3.93	8.22	5.43	3.55	2.59	2.19	1.79	1.31	1.10	0.89					
416	3.44	9.39	6.20	4.06	2.97	2.50	2.05	1.49	1.25	1.02					
440	3.25	9.93	6.56	4.29	3.13	2.64	2.16	1.58	1.32	1.08	0.79				
522	2.74	11.80	7.79	5.10	3.71	3.14	2.57	1.88	1.57	1.28	0.94				
554	2.58	12.52	8.27	5.41	3.94	3.33	2.73	1.99	1.67	1.36	1.00				
624	2.29	14.12	9.33	6.10	4.45	3.76	3.08	2.25	1.88	1.54	1.13				
715	2	15.59	10.30	6.76	4.92	4.15	3.39	2.48	2.08	1.69	1.24				
813	1.76	16.50	11.91	7.18	5.23	4.39	3.59	2.62	2.19	1.79	1.31				
917	1.56						3.74	2.73	2.28	1.86	1.37				
1036	1.38						3.87	2.83	2.36	1.93	1.41				
1172	1.22	19.06	12.60	8.29	6.04	5.07	4.15	3.03	2.53	2.07	1.51				
1232	1.16	19.66	13.00	8.56	6.23	5.23	4.28	3.13	2.61	2.13	1.56				
4p LS brake															
FCR		71			80			90			100				

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AGMA I, II, III

Cb 3133
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3133

		LS (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	
		LS 4 p													
min ⁻¹	i	71			80		90			100		112	132		
7.12	200														
7.85	181														
9	158														
9.89	144														
11.4	124	1.08													
12.8	111	1.20													
14.3	99.4	1.30													
16.4	87	1.43													
17.3	82.2	1.49													
20.6	69.2	1.67	1.11												
21.8	65.3	1.74	1.15												
24.6	57.8	1.89	1.25												
28.1	50.6	2.06	1.36												
29	49.1	2.73	1.81												
32	44.5	3.06	2.01												
36.7	38.8	3.45	2.28	1.49	1.09										
40.3	35.4	3.78	2.50	1.63	1.19	1.01									
46.6	30.6	4.36	2.88	1.89	1.37	1.16									
52.3	27.2	4.88	3.22	2.11	1.54	1.30	1.06								
58.3	24.4	5.43	3.59	2.35	1.71	1.45	1.18								
66.7	21.4	6.19	4.09	2.68	1.95	1.65	1.35								
70.5	20.2	6.54	4.32	2.83	2.06	1.74	1.42	1.04							
83.7	17	7.73	5.10	3.34	2.43	2.06	1.68	1.23	1.03						
88.8	16	8.19	5.41	3.54	2.58	2.18	1.78	1.30	1.09						
100	14.2	9.21	6.08	3.98	2.90	2.45	2.01	1.46	1.23	1.00					
115	12.4	10.26	6.78	4.44	3.24	2.73	2.23	1.63	1.37	1.11					
130	10.9	11.26	7.44	4.89	3.56	3.00	2.45	1.79	1.50	1.22					
136	10.4	8.94	5.90	3.86	2.81	2.38									
147	9.67						2.67	1.95	1.63	1.33					
162	8.79	10.61	7.01	4.59	3.34	2.82									
166	8.57						2.89	2.11	1.76	1.44					
172	8.28	11.26	7.44												
188	7.57	14.37	9.50	6.25	4.55	3.83	3.13	2.28	1.91	1.56	1.14				
194	7.34	12.70	8.39	5.49	4.00	3.38	2.77	2.02	1.69	1.38	1.01				
222	6.42	14.52	9.59	6.28	4.57	3.87	3.16	2.31	1.93	1.58	1.16				
252	5.65	16.24	10.73	7.03	5.12	4.32	3.54	2.58	2.16	1.76	1.29				
285	4.99						3.73	2.73	2.28	1.86	1.36				
322	4.43						3.84	2.81	2.35	1.92	1.40				
364	3.91	19.69	13.02	8.57	6.24	5.24	4.28	3.13	2.62	2.13	1.56				
385	3.71	20.24	13.39	8.91	6.41	5.39	4.40	3.22	2.69	2.19	1.61				
4p LS brake															
FCR		71			80		90			100					



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Cb 3231
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3231

		LS (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
		LS 4 p												
min ⁻¹	i	71			80			90			100		112	132 ¹
177	8.08	6.40	4.22	2.76	2.01	1.70								
207	6.92	7.47	4.93	3.23	2.35	1.99	1.63	1.19	1.00					
227	6.31	8.19	5.41	3.54	2.58	2.18	1.78	1.30	1.09					
250	5.71	9.04	5.97	3.91	2.85	2.41	1.97	1.44	1.20					
293	4.88	10.60	7.00	4.58	3.34	2.82	2.31	1.69	1.41	1.15				
330	4.33	11.92	7.87	5.15	3.75	3.19	2.60	1.90	1.59	1.30				
368	3.89	13.26	8.76	5.73	4.17	3.53	2.89	2.11	1.77	1.44	1.06			
417	3.43	15.07	9.95	6.51	4.74	4.01	3.28	2.40	2.01	1.64	1.20			
463	3.09	16.73	11.05	7.23	5.27	4.45	3.64	2.66	2.22	1.82	1.34	1.00		
526	2.72	18.99	12.54	8.21	5.98	5.06	4.14	3.02	2.53	2.06	1.51	1.13		
561	2.55	20.29	13.40	8.77	6.39	5.40	4.42	3.23	2.70	2.21	1.62	1.21		
647	2.21	23.39	15.45	10.11	7.36	6.23	5.09	3.72	3.12	2.54	1.86	1.40	1.02	
737	1.94	26.66	17.61	11.52	8.39	7.10	5.81	4.24	3.55	2.90	2.13	1.59	1.16	
817	1.75									3.16	2.31	1.73	1.27	
923	1.55									3.43	2.51	1.88	1.37	
986	1.45									3.35	2.45	1.84	1.34	
1163	1.23									3.63	2.66	1.99	1.45	
4p LS brake														
FCR		71			80			90			100		112	132

1. Integral mounting obligatory

Electromechanical products

Atmospheres containing explosive dust

Compabloc 3000



CATEGORY 3
ZONE 22
Non-conductive dust

AGMA I, II, III

Cb 3233
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3233

		LS (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
		LS 4 p												
min ⁻¹	i	71			80		90		100		112	132 ¹		
7	204	1.48												
8.18	174	1.72	1.14											
8.97	159	1.89	1.25											
9.9	144	2.09	1.38											
11.6	123	2.45	1.62	1.06										
13.1	109	2.75	1.82	1.19										
14.5	98.2	3.03	2.02	1.32										
16.5	86.5	3.48	2.30	1.50	1.09									
18.3	77.9	3.86	2.55	1.67	1.22	1.03								
20.8	68.6	4.38	2.90	1.89	1.38	1.17								
22.2	64.2	4.68	3.09	2.02	1.47	1.25	1.02							
25.6	55.7	5.40	3.57	2.33	1.70	1.44	1.18							
28.4	50.2	5.99	3.96	2.59	1.89	1.60								
29.2	48.9					1.34								
33.2	43	6.98	4.61	3.02	2.20	1.86	1.52	1.11						
36.4	39.2	7.64	5.05	3.30	2.41	2.03	1.66	1.22	1.02					
40.2	35.5	8.42	5.56	3.64	2.65	2.24	1.83	1.34	1.12					
47.1	30.3	9.83	6.49	4.25	3.10	2.62	2.14	1.56	1.31	1.07				
53	26.9	11.03	7.29	4.77	3.47	2.94	2.40	1.75	1.47	1.20				
59	24.2	12.24	8.08	5.29	3.86	3.26	2.67	1.95	1.63	1.33				
67	21.3	13.86	9.15	5.99	4.36	3.69	3.02	2.20	1.85	1.51	1.10			
74.4	19.2	15.29	10.10	6.61	4.82	4.07	3.33	2.43	2.04	1.66	1.22			
84.4	16.9	16.78	11.09	7.28	5.30	4.47	3.65	2.67	2.23	1.82	1.33	1.00		
90.2	15.8	17.61	11.64	7.64	5.57	4.69	3.83	2.80	2.34	1.91	1.40	1.05		
104	13.7	19.47	8.87	8.46	6.16	5.18	4.24	3.09	2.59	2.11	1.55	1.16		
116	12.3	13.40	8.85											
119	12	21.20	14.02	9.22	6.71	5.64	4.61	3.37	2.82	2.30	1.68	1.26		
131	10.9									2.46	1.80	1.35		
132	10.8	15.23	10.05	6.58	4.79	4.05	3.32	2.42	2.03	1.66				
147	9.72	16.91	11.17	7.31	5.32	4.50	3.68	2.69	2.25	1.84				
148	9.62									2.66	1.95	1.46	1.07	
158	9.02									2.78	2.04	1.53	1.12	
167	8.57	19.19	12.67	8.30	6.04	5.11	4.18	3.05	2.56	2.09				
178	8.02	20.51	13.54	8.86	6.46	5.46	4.47	3.26	2.73	2.23				
187	7.63									3.09	2.27	1.70	1.24	
205	6.96	23.64	15.61	10.22	7.44	6.29	5.15	3.76	3.15	2.57	1.88	1.41	1.03	
234	6.1	26.94	17.79	11.65	8.48	7.17	5.87	4.29	3.59	2.93	2.15	1.61	1.18	
259	5.51									3.24	2.38	1.78	1.30	
293	4.88									3.67	2.69	2.01	1.47	
312	4.57									3.91	2.86	2.15	1.57	
369	3.87									4.62	3.38	2.54	1.85	
4p LS brake														
FCR		71			80		90		100		112	132		

1. Integral mounting obligatory

Electromechanical products

Atmospheres containing explosive dust

Compabloc 3000



CATEGORY 3
ZONE 22
Non-conductive dust

AGMA I, II, III

Cb 3331
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3331

		LS (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
		LS 4 p													
min ⁻¹	i	71			80			90			100		112	132	
183	7.83	12.36	8.16	5.34	3.89	3.29	2.69	1.97	1.65	1.34					
202	7.08	13.69	9.04	5.92	4.31	3.64	2.99	2.18	1.82	1.49					
226	6.33	15.29	10.10	6.61	4.81	4.07	3.33	2.43	2.04	1.66	1.22				
260	5.5	17.61	11.63	7.61	5.54	4.69	3.84	2.80	2.35	1.91	1.40	1.05			
294	4.87	19.90	13.14	8.60	6.26	5.30	4.33	3.17	2.65	2.16	1.59	1.19			
320	4.47	21.65	14.30	9.36	6.81	5.76	4.72	3.44	2.89	2.35	1.72	1.29			
362	3.95	24.51	16.18	10.59	7.71	6.52	5.34	3.90	3.27	2.66	1.95	1.46	1.07		
406	3.52	26.93	17.79	11.66	8.49	7.17	5.86	4.28	3.59	2.93	2.14	1.61	1.17		
453	3.16	28.22	18.66	12.28	8.94	7.51	6.14	4.48	3.75	3.06	2.24	1.68	1.22		
491	2.91	> 30	21.74	14.24	10.37	8.76	7.17	5.24	4.39	3.58	2.62	1.96	1.44	1.06	
554	2.58	> 30	24.76	16.20	11.80	9.98	8.17	5.69	5.00	4.08	2.99	2.24	1.64	1.20	1.00
636	2.25	> 30	25.18	16.57	12.07	10.14	8.28	6.05	5.06	4.13	3.02	2.27	1.65	1.21	1.01
701	2.04									4.34	3.18	2.38	1.74	1.28	1.06
808	1.77									4.09	3.00	2.25	1.64	1.20	1.00
888	1.61										2.25	1.64	1.21	1.01	
979	1.46									4.16	3.04	2.28	1.66	1.22	1.02
1135	1.26										2.40	1.75	1.28	1.07	
4p LS brake															
FCR		71			80			90			100		112	132	

Electromechanical products

Atmospheres containing explosive dust

Compabloc 3000



CATEGORY 3
ZONE 22
Non-conductive dust

AGMA I, II, III

Cb 3333
LS, LS brake FCR - IP 55 - Cl.F - 400 Y - 400 Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3333

		LS (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
		LS 4 p													
min ⁻¹	i	71			80		90		100		112	132			
7.14	200	2.75	1.81	1.19											
7.9	181	3.04	2.01	1.31											
8.83	162	3.40	2.24	1.47	1.07										
10.2	141	3.91	2.58	1.69	1.23	1.04									
11.5	125	4.42	2.92	1.91	1.39	1.18									
12.5	114	4.81	3.17	2.08	1.51	1.28	1.05								
14.1	101	5.44	3.59	2.35	1.71	1.45	1.19								
15.9	90.1	6.11	4.03	2.64	1.92	1.63	1.33								
17.7	80.9	6.81	4.49	2.94	2.14	1.81	1.48	1.08							
19.2	74.4	7.39	4.88	3.20	2.33	1.97	1.61	1.18							
21.6	66.1	8.33	5.50	3.60	2.62	2.22	1.81	1.32	1.11						
24.8	57.6	9.56	6.31	4.13	3.01	2.54	2.08	1.52	1.27	1.04					
29.4	48.7	10.91	7.21	4.72	3.43	2.91	2.38	1.74	1.45	1.19					
32.5	44	12.08	7.98	5.22	3.80	3.22	2.63	1.92	1.61	1.31					
36.4	39.4	13.50	8.91	5.83	4.25	3.59	2.94	2.15	1.80	1.47	1.08				
41.9	34.2	15.54	10.26	6.72	4.89	4.14	3.39	2.47	2.07	1.69	1.24				
47.3	30.2	17.57	11.60	7.59	5.53	4.68	3.83	2.79	2.34	1.91	1.40	1.05			
51.5	27.8	19.11	12.62	8.26	6.01	5.09	4.16	3.04	2.55	2.08	1.52	1.14			
58.2	24.6	21.63	14.28	9.35	6.81	5.76	4.71	3.44	2.88	2.35	1.72	1.29			
65.4	21.9	24.27	16.03	10.49	7.64	6.46	5.29	3.86	3.23	2.64	1.93	1.45	1.06		
72.9	19.6	27.05	17.86	11.69	8.52	7.20	5.89	4.30	3.61	2.94	2.15	1.62	1.18		
79.1	18.1	29.39	19.40	12.70	9.25	7.82	6.40	4.67	3.92	3.19	2.34	1.75	1.28		
89.1	16.1	> 30	21.85	14.30	10.42	8.81	7.21	5.26	4.41	3.60	2.64	1.98	1.44	1.06	
102	14	> 30	25.08	16.41	11.95	10.11	8.27	6.04	5.06	4.13	3.02	2.27	1.66	1.22	1.02
113	12.7									4.55	3.33	2.50	1.83	1.34	1.12
115	12.5	21.63	14.28	9.35	6.81	5.76	4.71	3.44	2.88	2.35					
129	11.1	24.27	16.03	10.49	7.64	6.46	5.29	3.86	3.23	2.64					
130	11									4.96	3.64	2.72	1.99	1.46	1.22
143	9.98										2.98	2.18	1.60	1.33	
144	9.95	27.05	17.86	11.69	8.52	7.20	5.89	4.30	3.61	2.94	2.15	1.62			
156	9.16	29.39	19.40	12.70	9.25	7.82	6.40	4.67	3.92	3.19					
158	9.06									5.82	4.26	3.20	2.33	1.71	1.43
176	8.14	> 30	21.85	14.30	10.42	8.81	7.21	5.26	4.41	3.60	2.64	1.98			
182	7.85										3.50	2.56	1.88	1.57	
202	7.09	> 30	25.09	16.42	11.96	10.11	8.28	6.04	5.06	4.13	3.03	2.27	1.66	1.22	1.02
223	6.41									4.57	3.34	2.50	1.83	1.35	1.13
256	5.59									5.24	3.84	2.88	2.10	1.55	1.29
283	5.06										3.18	2.32	1.71	1.43	
312	4.59									6.38	4.67	3.50	2.56	1.88	1.57
360	3.98										4.04	2.95	2.17	1.81	
4p LS brake															
FCR		71			80		90		100		112	132			



Electromechanical products

Atmospheres containing explosive dust

Compabloc 3000



CATEGORY 3
ZONE 22
Non-conductive dust

Cb 3431
LS, LS brake FCR - IP 55 - Cl.F - 400 V Y - 400 V Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3431

		LS (kW)													
		0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	
		3-phase LS 4 p													
min ⁻¹	i	80			90			100		112	132			160	
177	8.1	7.81	6.59	5.39	3.93	3.29	2.69	1.97	1.47						
209	6.83	9.77	8.25	6.75	4.92	4.12	3.36	2.46	1.84						
233	6.15	10.89	9.20	7.52	5.49	4.60	3.75	2.74	2.06	1.50	1.10				
257	5.57	12.03	10.16	8.31	6.06	5.08	4.14	3.03	2.27	1.66	1.22	1.02			
279	5.13	13.05	11.03	9.02	6.58	5.51	4.49	3.29	2.47	1.80	1.32	1.11			
324	4.41	15.19	12.83	10.49	7.65	6.41	5.23	3.83	2.87	2.10	1.54	1.29	1.05		
348	4.11			11.26	8.21	6.88	5.61	4.11	3.08	2.25	1.65	1.38	1.13		
397	3.6			12.86	9.38	7.86	6.41	4.69	3.52	2.57	1.89	1.58	1.29		
450	3.18			14.55	10.61	8.89	7.25	5.31	3.98	2.91	2.14	1.78	1.46	1.07	
505	2.83			16.19	11.81	9.89	8.06	5.90	4.42	3.23	2.38	1.98	1.62	1.19	
563	2.54			17.52	12.78	10.70	8.73	6.39	4.79	3.50	2.57	2.15	1.75	1.28	
659	2.17			19.48	14.21	11.90	9.70	7.10	5.32	3.89	2.86	2.39	1.95	1.43	
726	1.97									4.15	3.05	2.55			
822	1.74									4.05	2.98	2.49			
917	1.56									4.78	3.51	2.93			
1036	1.38									4.72	3.47	2.89			
1153	1.24									4.40	3.23	2.70			
4p LS brake															
FCR		80			90			100		112	132			160	

Electromechanical products

Atmospheres containing explosive dust

Compabloc 3000



CATEGORY 3
ZONE 22
Non-conductive dust

AGMA I, II, III

Cb 3433
LS, LS brake FCR - IP 55 - Cl.F - 400 V Y - 400 V Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3433

		LS (kW)												
		0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15
		3-phase LS 4 p												
min ⁻¹	i	80		90		100		112	132			160		
7.0	204	1.66	1.40	1.15										
8.3	172	1.97	1.66	1.36	1.00									
9.2	155	2.18	1.85	1.51	1.10									
10.2	140	2.41	2.04	1.66	1.21	1.02								
11.1	129	2.61	2.21	1.80	1.32	1.10								
12.9	111	3.03	2.56	2.09	1.53	1.28	1.04							
13.8	104			2.24	1.64	1.37	1.12							
15.8	90.7			2.56	1.87	1.56	1.27							
17.9	80.1			2.89	2.11	1.76	1.44	1.05						
20.0	71.4						1.61	1.18						
22.4	63.9						1.80	1.31	1.00					
26.1	54.7						2.09	1.53	1.15					
28.4	50.3	6.59	5.57	4.55	3.32	2.78	2.27	1.66	1.24					
28.8	49.6													
32.7	43.7									1.04				
33.6	42.5	7.79	6.58	5.38	3.92	3.28	2.68	1.96	1.47					
37.4	38.2	8.62	7.28	5.95	4.34	3.64	2.97	2.17	1.63	1.19				
41.3	34.6	9.50	8.02	6.56	4.79	4.01	3.27	2.39	1.79	1.31				
44.8	31.9	10.29	8.69	7.10	5.18	4.34	3.54	2.59	1.94	1.42	1.04			
52.2	27.4	11.92	10.07	8.23	6.00	5.03	4.10	3.00	2.25	1.64	1.21	1.01		
56.1	25.5			8.81	6.43	5.38	4.39	3.21	2.41	1.76	1.29	1.08		
63.8	22.4			10.02	7.31	6.12	4.99	3.66	2.74	2.00	1.47	1.23	1.00	
72.2	19.8			11.29	8.24	6.90	5.63	4.12	3.09	2.26	1.66	1.38	1.13	
81.3	17.6						6.29	4.61	3.45	2.52	1.85	1.55	1.27	
90.5	15.8						6.99	5.12	3.84	2.80	2.06	1.72	1.41	1.03
106	13.5						8.12	5.95	4.46	3.26	2.39	2.00	1.63	1.20
117	12.2									3.58	2.63	2.20	1.80	1.32
132	10.8									3.95	2.90	2.42	1.98	1.45
147	9.67									4.26	3.13	2.61	2.13	1.56
166	8.60									4.59	3.37	2.81	2.30	1.68
186	7.69									4.44	3.27	2.73	2.23	1.63
208	6.86									3.93	2.89	2.41	1.97	1.44
230	6.21									4.19	3.08	2.57	2.10	1.54
261	5.48									4.10	3.01	2.51	2.05	1.50
291	4.91									4.83	3.55	2.96	2.42	1.77
327	4.37									4.77	3.50	2.93	2.39	1.75
366	3.91									4.44	3.27	2.73	2.23	1.63
4p LS brake														
FCR		80		90		100		112	132			160		



Electromechanical products

Atmospheres containing explosive dust

Compabloc 3000



CATEGORY 3
ZONE 22
Non-conductive dust

AGMA I, II, III

Cb 3531
LS, LS brake FCR - IP 55 - Cl.F - 400 V Y - 400 V Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3531

		LS (kW)														
		1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30	
		3-phase LS 4 p														
min ⁻¹	i	90			100		112	132			160		180		200	
179	8	9.82	7.16	5.99	4.89	3.58	2.68	1.96	1.44	1.20						
208	6.87	11.12	8.11	6.78	5.53	4.05	3.03	2.22	1.63	1.36						
227	6.31	12.55	9.15	7.66	6.25	4.57	3.43	2.50	1.84	1.54						
260	5.5	14.41	10.50	8.79	7.17	5.25	3.93	2.87	2.11	1.76	1.44	1.06				
295	4.85	16.25	11.85	9.92	8.08	5.92	4.43	3.24	2.38	1.99	1.62	1.19				
329	4.35	18.21	13.27	11.11	9.06	6.63	4.97	3.63	2.67	2.23	1.82	1.33	1.08			
369	3.88	19.71	14.37	12.02	9.80	7.18	5.38	3.93	2.88	2.41	1.97	1.44	1.17			
403	3.55					7.87	5.90	4.31	3.16	2.64	2.16	1.58	1.28	1.08		
466	3.07					7.94	5.94	4.34	3.19	2.66	2.18	1.59	1.29	1.09		
516	2.77					8.87	6.64	4.85	3.56	2.97	2.43	1.78	1.44	1.21		
586	2.44							5.15	3.78	3.15	2.58	1.89	1.53	1.29		
636	2.25							5.33	3.91	3.26	2.67	1.95	1.58	1.33		
715	2							5.58	4.09	3.41	2.79	2.05	1.66	1.40	1.02	
799	1.79							5.81	4.27	3.56	2.91	2.13	1.73	1.45	1.07	
894	1.60										3.02	2.21	1.80	1.51	1.11	
979	1.46										3.11	2.28	1.85	1.56	1.14	
1117	1.28										3.24	2.37	1.93	1.62	1.19	
4 p LS brake																
FCR		90			100		112	132			160					

Electromechanical products

Atmospheres containing explosive dust

Compabloc 3000



CATEGORY 3
ZONE 22
Non-conductive dust

AGMA I, II, III

Cb 3533
LS, LS brake FCR - IP 55 - Cl.F - 400 V Y - 400 V Δ - 50 Hz - U.G.
 II 3D T 125°C - ZONE 22

Cb 3533

		LS (kW)													
		1.1	1.5	1.8	2.2	3	4	5.5	7.5	9	11	15	18.5	22	30
		3-phase LS 4 p													
min ⁻¹	i	90			100		112	132			160		180		200
7.1	201	2.22	1.62	1.35	1.10										
8.3	173	2.58	1.88	1.57	1.28										
9.0	159	2.80	2.04	1.71	1.39	1.02									
10.4	138	3.21	2.34	1.96	1.60	1.17									
11.7	122	3.63	2.65	2.22	1.81	1.32									
13.0	110	4.04	2.94	2.46	2.01	1.47	1.10								
14.7	98	4.53	3.30	2.76	2.25	1.65	1.24								
16.0	89.3					1.80	1.35								
18.5	77.2					2.07	1.55	1.13							
20.5	69.8					2.22	1.66	1.21							
23.3	61.4							1.32							
25.3	56.6							1.38	1.01						
28.8	49.7	8.75	6.38	5.34	4.36	3.19	2.39	1.74	1.28	1.07					
31.8	44.9														
33.5	42.7	10.16	7.41	6.20	5.05	3.70	2.77	2.02	1.49	1.24					
35.5	40.3														
36.5	39.2	11.02	8.04	6.73	5.49	4.01	3.01	2.20	1.61	1.35					
41.8	34.2	12.60	9.19	7.69	6.27	4.59	3.44	2.51	1.85	1.54	1.26				
47.5	30.1	14.24	10.38	8.69	7.08	5.18	3.88	2.84	2.08	1.74	1.42	1.04			
52.8	27.1	15.80	11.52	9.64	7.86	5.76	4.31	3.15	2.31	1.93	1.58	1.16			
59.3	24.1	17.69	12.90	10.79	8.80	6.44	4.83	3.53	2.59	2.16	1.77	1.29	1.05		
64.7	22.1					7.01	5.25	3.84	2.82	2.35	1.92	1.41	1.14		
74.9	19.1					7.64	5.72	4.18	3.07	2.56	2.10	1.53	1.25	1.05	
83.1	17.2					8.87	6.64	4.85	3.56	2.98	2.43	1.78	1.45	1.22	
94.1	15.2							5.31	3.90	3.26	2.66	1.95	1.58	1.33	
102	14							5.59	4.11	3.43	2.80	2.05	1.67	1.40	1.03
115	12.4							6.18	4.54	3.79	3.10	2.27	1.84	1.55	1.14
129	11.1							6.60	4.85	4.05	3.31	2.42	1.97	1.66	1.22
144	9.94										3.65	2.68	2.17	1.83	1.34
158	9.07										3.88	2.84	2.31	1.94	1.43
181	7.92										4.24	3.11	2.52	2.12	1.56
199	7.18							5.60	4.11	3.43	2.80	2.05	1.67	1.40	1.03
224	6.38							6.18	4.54	3.79	3.10	2.27	1.84	1.55	1.14
251	5.7							6.60	4.85	4.05	3.31	2.42	1.97	1.65	1.22
280	5.1										4.34	3.18	2.58	2.17	1.60
307	4.66										4.56	3.34	2.72	2.28	1.68
351	4.07										4.89	3.58	2.91	2.44	1.80
4p LS brake															
FCR		90			100		112	132			160				



