Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

General information

Motors in accordance with the European Directive 94/9/CE.

Compabloc 3000 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 gear box (n_S) in revolutions per minute (min^{-1}).
The main characteristic of the geared units is the rated output torque (Mn_S) expressed in Newton-metres (N.m):

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

A range of nine sizes: 30, 31, 32, 33, 34, 35, 36, 37, 38.
Rated output torque: from 10 N.m to 14500 N.m.
Power rating: from 0.25 to 110 kW.
Reduction ration: from 1.16 to 244.
High efficiency: 95 % to 98 %.
Reversible.
Silent operation.
Ambient temperature: -20°C up to +40°C.

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

D

Construction

Description of Compabloc (Cb) gearboxes - Zone 21

II 2D Ex tb IIIC T 125 °C Db

Component	Materials	Remarks
Housing	Aluminium (30) Cast iron (31 to 38)	- cast aluminium - use of ENGJL-200 cast iron (flake graphite: tensile strenght 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	- cut by gear hob, they are heat treated by case hardening then undergo final machining. The quality and the precision of the gear cutting allow maximum torque with minimum noise level
Seals	Nitrile	- sealing ring on the motor side - anti-dust lipseal collar according to DIN 3760 AS form - flat seal beneath the inspection door
Shaft	Steel	- grinding of the sealing surfaces - key according to ISO R773 - diameter 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	- in accordance with ISO 6743 / 6 - supplied with the quantity of oil corresponding to the operating position, it is fitted with drain, level and vent plugs (Cb 30 exclusive)
Mounting		AP: gearbox with input shaft MI: geared motor with integral mounting MU: geared motor with IEC motor, with universal mounting
Standard motors		LSPX: multi-voltage 230/400 VY - 400 VΔ three-phase motor - composite material (71) pressed steel (≥ 80) ventilation cover, on request fitted with a drip cover for operation in vertical position (shaft facing down) - LSPX: metal terminal box fitted without cable gland - LSPX LS2/IE2: without cable glands - IP 65 standard protection
Brake motors		LSPX FCR: 0.25 to 15 kW consult us LSPX LS2/IE2 FCR: 0.75 to 11 kW consult us
Finish	Paint	Shade: RAL 1007 (yellow), system I (1 polyurethane vinyl layer of 25/30 µm)

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Conditions

Cb: S, BS, BT, BDn, BR
LSPX: IP65 - 50 Hz - Cl.F - 400 VY from 0.25 to 0.55 kW
LSPX LS2/IE2: IP65 - 50 Hz - Cl. F - 400 VY from 0.75 to 15 kW - 400 VΔ from 4 to 110 kW
LSPX brake FCR: consult us

MI
MU
AP

Maximum quantity by order

Input		Cb 3031	Cb 3131 to 3331	Cb 3431 to 3531	Cb 3032-3033	Cb 3133 to 3333	Cb 3433 to 3533	Cb 3633 to 3833
AP	-	5	5	5	5	5	5	2
MI LSPX	0.25 --> 0.55 kW							
	0.37 kW	5	5	-	5	5	-	-
MI LSPX	0.75 --> 9 kW	5	5	5	5	5	5	2
LS2/IE2	11 --> 15 kW	-	-	2	-	-	2	2
MI LSPX FCR					Consult us			
MI LSPX LS2 FCR					Consult us			
MU LSPX	0.25 --> 0.55 kW	5	5	-	5	5	-	-
MU LSPX LS2/IE2	0.75 --> 4 kW	2	2	2	2	2	2	2
	5.5 --> 45 kW	-	-	1	-	1	1	1
	55[1] - 110 kW[1]	-	-		-	-		
MU LSPX FCR					Consult us			
MU LSPX LS2 FCR					Consult us			

1. 55 to 110 kW motor: B35 obligatory

Pages of dimensions corresponding to the mounting form

	Cb 1-stage MI forms						Mounting	
	Baseplate	Flange	Other flanges			Tapped holes	Cb 1-stage	Cb 1-stage
Type	S	BS	BD1	BD2	BD3	BT	MU	AP
Cb 3031	D1.27	D1.27	D1.26	D1.26	D1.26	D1.26	D1.60	D1.25
Cb 3131	D1.29	D1.29	D1.28	D1.28		D1.28	D1.60	D1.25
Cb 3231	D1.31	D1.31	D1.30			D1.30	D1.60	D1.25
Cb 3331	D1.33	D1.33	D1.32			D1.32	D1.60	D1.25
Cb 3431	D1.35	D1.35	D1.34			D1.34	D1.60	D1.25
Cb 3531	D1.37	D1.37	D1.36			D1.36	D1.60	D1.25

	Cb multistage MI forms							Mounting	Mounting
	Baseplate	Flange	Other flanges				Tapped holes	Backstop[1]	Cb multistage	Cb multistage
Type	S	BS	BD1	BD2	BD3	BR	BT	AD/AP-MI-MU	MU	AP
Cb 3032	D1.41	D1.41	D1.40	D1.40	D1.40		D1.40		D1.60	D1.25
Cb 3033	D1.43	D1.43	D1.42	D1.42	D1.42		D1.42		D1.60	D1.25
Cb 3133	D1.45	D1.45	D1.44	D1.44	D1.44		D1.44		D1.60	D1.25
Cb 3233	D1.47	D1.47	D1.46	D1.46			D1.46		D1.60	D1.25
Cb 3333	D1.49	D1.49	D1.48	D1.48		D1.48	D1.48		D1.60	D1.25
Cb 3433	D1.51	D1.51	D1.50	D1.50		D1.50	D1.50		D1.60	D1.25
Cb 3533	D1.53	D1.53	D1.52	D1.52		D1.52	D1.52		D1.60	D1.25
Cb 3633[1]	D1.55	D1.55	D1.54				D1.54	D1.25-54-55-60	D1.60	D1.25
Cb 3733[1]	D1.57	D1.57	D1.56				D1.56	D1.25-56-57-60	D1.60	D1.25
Cb 3833[1]	D1.59	D1.59	D1.58				D1.58	D1.25-58-59-60	D1.60	D1.25

1. Cb 36 to 38: AD (backstop) not allowed for V5, V1 operating positions.

Options

Input 4p / MI-MU		Electrical options			Mechanical options		Brake options			
		230/400V	400V Δ	PTO/CTP	Drip cover	Cover sheet	DLRA	Different Mf	TRR	J01
LSPX	0.37 kW		-				-	-	-	-
LSPX LS2	0.75 - 0.3 kW		-			Standard	-	-	-	-
	4 --> 9 kW MI					Standard	-	-	-	-
	11 - 15 kW MI					Standard	-	-	-	-
	18.5 --> 45 kW MI					Standard	-	-	-	-
	0.75 --> 9 kW MU					Standard	-	-	-	-
	11 --> 15 kW MU					Standard	-	-	-	-
	18.5 --> 45 kW MU					Standard	-	-	-	-
	55[1] --> 110 kW[1] MU					Standard	-	-	-	-
LSPX FCR						Consult us				
LSPX LS2 FCR						Consult us				

1. 55 to 110kW motor: B35 obligatory

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DG: Availability ; n WD: Working Days (at the departure of the factory).

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Selection

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

Cb 3031
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3031

		LSPX (kW)										
		0.06	**0.09**	**0.12**	**0.18**	**0.25**	**0.37**	**0.55**	**0.75**	**0.9**	**1.1**	**1.5**
		3-phase 4p LSPX										
min^{-1}	i exact	56		63		71			80		90	
178	8.13					1.27						
201	7.22					1.43						
227	6.4					1.61	1.07					
249	5.82					1.78	1.17					
281	5.17					2.00	1.32					
316	4.58					2.25	1.49					
356	4.08					2.53	1.67	1.10				
400	3.63					2.85	1.88	1.23				
448	3.24					3.19	2.11	1.38	1.04			
527	2.75					3.76	2.48	1.62	1.22	1.00		
569	2.55					4.05	2.68	1.75	1.32	1.08		
662	2.19					4.72	3.11	2.04	1.53	1.26		
741	1.96					5.28	3.49	2.28	1.72	1.41		
794	1.83					5.66	3.74	2.45	1.84	1.51		
943	1.54					6.72	4.43	2.90	2.18	1.79		
992	1.46					7.07	4.67	3.06	2.30	1.88		
1096	1.32					7.81	5.16	3.38	2.54	2.08		
LSPX 4p and brake		3-phase 4p LSPX										
LSPX FCR		Consult us										
LSPX LS2/IE2 FCR												

Selection example

Required power:	0.75 kW
Required speed:	530 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	horizontal; foot mounted

Designation: Cb 3031 i: 2.75 S S M - MI 4p LSPX 80LG 0.75 kW - LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400VY - U.G.

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Selection

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

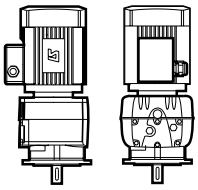
Cb 3131
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3131

		LSPX (kW)										
		0.25	**0.37**	**0.55**	**0.75**	**0.9**	**1.1**	**1.5**	**1.8**	**2.2**	**3**	**4**
		3-phase 4p LSPX LS2/IE2										
min^{-1}	i exact	71			80			90		100		112
183	7.91	4.08	2.70									
202	7.17	4.50	2.97									
232	6.25	5.17	3.41	2.23	1.68	1.38	1.14 ●					
255	5.69	5.67	3.75	2.45	1.84	1.51	1.25 ●					
295	4.92	6.57	4.34	2.84	2.13	1.75	1.45	1.06				
331	4.38	7.36	4.86	3.18	2.39	1.96	1.62	1.19				
369	3.93	8.22	5.43	3.55	2.67	2.19	1.81	1.32	1.10			
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		
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	
LSPX 4p and brake		3-phase 4p LSPX										
LSPX FCR		Consult us										
LSPX LS2/IE2 FCR												

● *MU obligatory*



Selection example

Required power:	1.5 kW
Required speed:	331 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	V1 vertical; BS flange

Designation: Cb 3131 i: 4.38 BS S V1 - MI 4p LSPX90L 1.5 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400V Y - U.G.

DG	<	2 WD	<	5 WD	<	10 WD	<	15 WD	<	To agree

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Selection

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

Cb 3231
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3231

		LSPX (kW)											
		0.25	**0.37**	**0.55**	**0.75**	**0.9**	**1.1**	**1.5**	**1.8**	**2.2**	**3**	**4**	**5.5**
		3-phase 4p LSPX LS2/IE2											
min^{-1}	i exact	71			80		90			100		112	132
180	8.08	6.40	4.22	2.76	2.08	1.70	1.41 ●						
210	6.92	7.47	4.93	3.23	2.43	1.99	1.65	1.20	1.00				
230	6.31	8.19	5.41	3.54	2.66	2.18	1.80	1.32	1.09				
254	5.71	9.04	5.97	3.91	2.94	2.41	1.99	1.46	1.20				
297	4.88		7.00	4.58	3.44	2.82	2.33	1.71	1.41	1.16			
335	4.33		7.87	5.15	3.88	3.17	2.63	1.92	1.59	1.30			
372	3.89		8.76	5.73	4.31	3.53	2.92	2.13	1.77	1.45	1.06		
423	3.43		9.95	6.51	4.90	4.01	3.32	2.43	2.01	1.64	1.20		
470	3.09			7.23	5.44	4.45	3.69	2.69	2.23	1.82	1.33	1.01	
533	2.72			8.21	6.17	5.06	4.18	3.06	2.53	2.07	1.51	1.15	
570	2.55			8.77	6.60	5.40	4.47	3.27	2.70	2.21	1.62	1.23	
657	2.21				7.60	6.23	5.15	3.77	3.12	2.55	1.86	1.41	1.02
748	1.94				8.67	7.10	5.87	4.29	3.55	2.91	2.13	1.61	1.17
829	1.75				9.44 ●	7.74 ●	6.40 ●	4.67 ●	3.87 ●	3.17 ●	2.31	1.75	1.27
936	1.55					8.41 ●	6.93 ●	5.07 ●	4.20 ●	3.43 ●	2.51	1.90	1.38
999	1.45					8.23 ●	6.77 ●	4.95 ●	4.10 ●	3.36 ●	2.45	1.85	1.34
1180	1.23					8.91 ●	7.33	5.36	4.44	3.63	2.66	2.00	1.45
LSPX 4p and brake		3-phase 4p LSPX											
LSPX FCR		Consult us											
LSPX LS2/IE2 FCR													

● *MU obligatory*

Selection example:

Required power:	1.5 kW
Required speed:	230 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	B5 horizontal; BS flange

Designation: Cb 3231 i: 6.31 BS S B5 - MI 4p LSPX90L 1.5 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400VY - U.G.

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Selection

Classes
I, II, III
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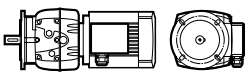
Cb 3331
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3331

		LSPX (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**
		3-phase 4p LSPX LS2/IE2													
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				
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			
324	4.47			9.36	7.04	5.76	4.77	3.48	2.89	2.36	1.73	1.31			
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		
459	3.16				9.12	7.51	6.18	4.52	3.75	3.06	2.24	1.69	1.23		
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	
LSPX 4p and brake		3-phase 4p LSPX													
LSPX FCR		Consult us													
LSPX LS2/IE2 FCR															

● *MU obligatory*



Selection example

Required power:	4 kW
Required speed:	300 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	B52 horizontal; BS flange

Designation: Cb 3331 i: 4.87 BS S B52 - MI 4p LSPX112MU 4 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400V Y - U.G.

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Selection

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

Cb 3431
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3431

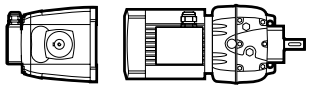
		LSPX (kW)															
		0.75	**0.9**	**1.1**	**1.5**	**1.8**	**2.2**	**3**	**4**	**5.5**	**7.5**	**9**	**11**	**15**	**18.5**	**22**	**30**
		3-phase 4p LSPX LS2/IE2															
min^{-1}	i exact	80			90			100	112	132			160		180		200
179	8.1	8.05	6.59	5.45	3.98	3.29	2.69	1.97	1.49								
212	6.83		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				
403	3.6				9.49	7.86	6.43	4.70	3.56	2.58	1.90	1.58	1.29				
456	3.18					8.89	7.27	5.31	4.03	2.91	2.15	1.79	1.46	1.07			
512	2.83					9.89	8.09	5.91	4.48	3.24	2.39	1.99	1.63	1.19			
571	2.54						8.75	6.39	4.84	3.51	2.58	2.15	1.76	1.29	1.04 ●		
667	2.17						9.73	7.11	5.38	3.90	2.87	2.39	1.96	1.43	1.16 ●		
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 ●	
LSPX 4p and brake		3-phase 4p LSPX															
LSPX FCR		Consult us															
LSPX LS2/IE2 FCR																	

● *MU obligatory*

Selection example:

Required power:	4 kW
Required speed:	179 min^{-1}
Duty factor required by the application:	Kp = 1.4 - Zone 21
Operating position; Mounting form:	B7 horizontal; foot mounted

Designation: Cb 3431 i: 8.1 S S B7 - MI 4p LSPX112MU 4 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400VY - U.G.



DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

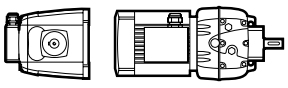
Cb 3531
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3531

		LSPX (kW)												
		1.1	**1.5**	**1.8**	**2.2**	**3**	**4**	**5.5**	**7.5**	**9**	**11**	**15**	**18.5**	**22**	**30**
		3-phase 4p LSPX LS2/IE2													
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			
299	4.85			9.92	8.11	5.92	4.48	3.25	2.39	2.00	1.63	1.19			
333	4.35				9.06	6.64	5.03	3.64	2.68	2.24	1.83	1.34	1.08 ●		
374	3.88				9.83	7.18	5.44	3.93	2.90	2.42	1.98	1.45	1.17 ●		
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 ●	
594	2.44					9.43 ●	7.11 ●	5.16	3.79	3.16	2.58	1.89	1.53 ●	1.29 ●	
644	2.25					9.76 ●	7.36 ●	5.33	3.92	3.27	2.67	1.96	1.59 ●	1.33 ●	
725	2						7.71 ●	5.58	4.11	3.42	2.80	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 ●
LSPX 4p and brake		3-phase 4p LSPX													
LSPX FCR		Consult us													
LSPX LS2/IE2 FCR															

● *MU obligatory*



Selection example

Required power:	15 kW
Required speed:	300 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	B7 horizontal; foot mounted

Designation: Cb 3531 i: 4.85 S S B7 - MI 4p LSPX160L 15 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400V Δ - U.G.

Ref. 5133 a

DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

Cb 30
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

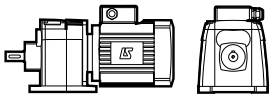
Cb 3032, 3033

		LSPX (kW)										
		0.06	**0.09**	**0.12**	**0.18**	**0.25**	**0.37**	**0.55**	**0.75**	**0.9**	**1.1**	**1.5**
						3-phase 4p LSPX			3-phase 4p LSPX LS2/IE2			
min^{-1}	i exact	56		63		71			80		90	
7.10	204											
7.99	181											
9.02	161											
9.92	146							**Cb 3033**				
11.2	130											
12.6	115											
14.2	102											
15.9	91.1											
17.8	81.3											
21.0	69.1											
22.6	64.1											
26.4	55					1.08						
29.5	49.2					1.21						
31.6	45.9					1.30						
37.5	38.7					1.54	1.01					
39.5	36.7					1.62	1.07					
43.6	33.2					1.78	1.17					
32.0	45.4					1.30						
36.0	40.3					1.46						
40.6	35.7					1.64	1.08		**Cb 3032**			
43.6	33.2					1.78	1.17					
44.6	32.5					1.80	1.19					
50.3	28.8					2.03	1.34					
56.7	25.6					2.28	1.50					
63.7	22.8					2.56	1.69	1.11				
71.6	20.2					2.87	1.89	1.24				
80.3	18.1					3.20	2.12	1.39	1.04			
94.4	15.4					3.75	2.48	1.62	1.22	1.00		
102	14.2					4.04	2.67	1.75	1.31	1.08		
119	12.2					4.69	3.09	2.03	1.52	1.25		
133	10.9					5.23	3.45	2.26	1.70	1.39		
142	10.2					5.59	3.69	2.42	1.82	1.49		
169	8.59					6.60	4.36	2.85	2.14	1.76		
178	8.16					6.94	4.58	3.00	2.25	1.85		
196	7.38					7.62	5.03	3.30	2.48	2.03		
LSPX 4p and brake		3-phase 4p LSPX										
LSPX FCR		Consult us										
LSPX LS2/IE2 FCR												

Selection example

Required power:	0.25 kW
Required speed:	32 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	horizontal, foot mounted

Designation: Cb 3032 i: 45.4 S S M - MI 4p LSPX71M 0.25 kW - Ex II 2D Ex tb IIIC T 125°C Db - 400VY - U.G.



DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

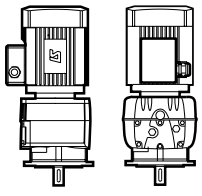
Cb 3133
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3133

		LSPX (kW)										
		0.25	**0.37**	**0.55**	**0.75**	**0.9**	**1.1**	**1.5**	**1.8**	**2.2**	**3**	**4**
		3-phase 4p LSPX			3-phase 4p LSPX LS2/IE2							
min^{-1}	i exact	71			80		90			100		112
9.17	158											
10.1	144											
11.7	124	1.08										
13.1	111	1.20										
14.6	99.4	1.30										
16.7	87	1.43										
17.6	82.2	1.49										
20.9	69.2	1.67	1.11									
22.2	65.3	1.74	1.15									
25.1	57.8	1.89	1.25					Cb 3133				
28.7	50.6											
29.5	49.1	2.71	1.79									
32.6	44.5	2.98	1.97									
37.3	38.8	3.41	2.25	1.48	1.11							
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						
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					
67.9	21.4	6.13	4.05	2.65	1.99	1.63	1.35					
71.8	20.2	6.47	4.27	2.80	2.10	1.72	1.42	1.04				
85.3	17	7.65	5.05	3.31	2.49	2.04	1.68	1.23	1.02			
90.5	16	8.11	5.35	3.50	2.63	2.16	1.78	1.30	1.08			
102	14.2	9.11	6.02	3.94	2.96	2.43	2.01	1.47	1.21			
117	12.4		6.71	4.40	3.29	2.70	2.23	1.63	1.35	1.11		
133	10.9		7.36	4.84	3.61	2.97	2.45	1.79	1.48	1.21		
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		
165	8.79		6.93	4.54	3.41	2.80	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	1.00	
226	6.42		9.49	6.21	4.67	3.83	3.17	2.31	1.92	1.57	1.15	
257	5.65			6.96	5.22	4.28	3.54	2.58	2.14	1.75	1.28	
290	4.99			7.39 ●	5.49 ●	4.52 ●	3.72	2.72	2.26	1.84	1.35	
327	4.43			7.61 ●	5.65 ●	4.66 ●	3.83	2.80	2.32	1.90	1.39	
371	3.91			8.48	6.30	5.19	4.27	3.12	2.59	2.12	1.55	
391	3.71			8.72	6.48	5.33	4.39	3.21	2.66	2.18	1.59	
LSPX 4p and brake		3-phase 4p LSPX										
LSPX FCR		Consult us										
LSPX LS2/IE2 FCR												

● *MU obligatory*



Selection example

Required power:	1.5 kW
Required speed:	84 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	V1 vertical; BS flange

Designation: Cb 3133 i: 17 BS S V1 - MI 4p LSPX90L 1.5 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400V Y - U.G.

DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

Cb 3233
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3233

LSPX (kW)

		0.25	0.37	0.55	0.75	0.9	1.1	1.5	1.8	2.2	3	4	5.5
		3-phase 4p LSPX			3-phase 4p LSPX LS2/IE2								
min⁻¹	i exact	71			80		90			100		112	132
7.12	204	1.48											
8.31	174	1.72	1.14										
9.11	159	1.89	1.25										
10.1	144	2.09	1.38										
11.8	123	2.45	1.62	1.06									
13.3	109	2.75	1.82	1.19									
14.8	98.2	3.06	2.02	1.32	1.00								
16.8	86.5	3.48	2.30	1.50	1.13				Cb 3233				
18.6	77.9	3.86	2.55	1.67	1.26	1.03							
21.1	68.6	4.38	2.90	1.89	1.43	1.17							
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						
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						
33.7	43.0	6.91	4.56	2.99	2.25	1.84	1.52	1.11					
37.0	39.2	7.56	5.00	3.27	2.46	2.01	1.67	1.22	1.01				
40.8	35.5	8.33	5.50	3.60	2.71	2.22	1.84	1.34	1.11				
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			
59.9	24.2		8.00	5.24	3.94	3.23	2.67	1.95	1.61	1.32			
68.1	21.3		9.06	5.93	4.46	3.65	3.02	2.21	1.83	1.50	1.09		
75.6	19.2		9.99	6.54	4.92	4.03	3.33	2.43	2.02	1.65	1.21		
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	12.0			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	1.06
161	9.02				8.22 ●	6.77 ●	5.57 ●	4.07 ●	3.38 ●	2.76 ●	2.02	1.52	1.11
169	8.57			8.21	6.17	5.06	4.18	3.06	2.53	2.07			
181	8.02			8.77	6.60	5.40	4.47	3.27	2.71	2.21			
190	7.63				9.13 ●	7.51 ●	6.19	4.52	3.75	3.07	2.24	1.69	1.23
208	6.96				7.61	6.23	5.15	3.77	3.12	2.55	1.86	1.41	1.02
238	6.1				8.67	7.10	5.87	4.29	3.55	2.91	2.13	1.61	1.17
263	5.51				9.6 ●	7.86 ●	6.50 ●	4.75 ●	3.93 ●	3.22 ●	2.35	1.78	1.29
297	4.88					8.88 ●	7.35 ●	5.37 ●	4.45 ●	3.64 ●	2.66	2.02	1.46
317	4.57					9.48 ●	7.84 ●	5.73 ●	4.74 ●	3.88 ●	2.84	2.15	1.55
375	3.87						9.26	6.77	5.60	4.59	3.35	2.54	1.84
LSPX 4p and brake		3-phase 4p LSPX											
LSPX FCR		Consult us											
LSPX LS2/IE2 FCR													

● *MU obligatory*

Selection example:

Required power:	0.75 kW
Required speed:	18 min⁻¹
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	B5 horizontal; BS flange

Designation: Cb 3233 i: 77.9 BS S B5 - MI 4p LSPX80LG 0.75 kW - LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400V Y - U.G.

DG	<	2 WD	<	5 WD	<	10 WD	<	15 WD	<	To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

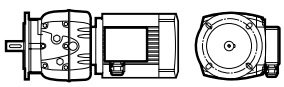
Cb 3333
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3333

		LSPX (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**
		3-phase 4p LSPX			3-phase 4p LSPX LS2/IE2										
min^{-1}	i exact	71			80		90			100		112	132		
7.23	200	2.75	1.81	1.19											
8.01	181	3.04	2.01	1.31											
8.95	162	3.40	2.24	1.47	1.10										
10.3	141	3.91	2.58	1.69	1.27	1.04				Cb 3333					
11.6	125	4.42	2.92	1.91	1.44	1.18									
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								
16.1	90.1	6.11	4.03	2.64	1.99	1.63	1.35								
17.9	80.9	6.81	4.49	2.94	2.21	1.81	1.50	1.10							
19.5	74.4	7.39	4.88	3.20	2.40	1.97	1.63	1.19							
21.9	66.1	8.33	5.50	3.60	2.71	2.22	1.83	1.34	1.11						
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 ●					
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				
42.4	34.2			6.65	5.00	4.10	3.39	2.48	2.05	1.68	1.23				
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			
59.0	24.6			9.25	6.96	5.70	4.72	3.50	2.85	2.33	1.71	1.29			
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		
80.2	18.1				9.45	7.74	6.41	4.68	3.88	3.17	2.32	1.76	1.27		
90.3	16.1					8.72	7.21	5.27	4.36	3.57	2.61	1.98	1.43	1.06	
104	14						8.28	6.05	5.01	4.10	3.00	2.27	1.64	1.21	
115	12.7						9.12 ●	6.66 ●	5.52 ●	4.51 ●	3.30	2.50	1.81	1.34	
116	12.5			9.25	6.96	5.70	4.72	3.45	2.85	2.33					
131	11.1				7.81	6.40	5.29	3.87	3.20	2.62					
132	11						9.94 ●	7.26 ●	6.02 ●	4.92 ●	3.60	2.72	1.97	1.45	
145	9.98							7.95 ●	6.59 ●	5.39 ●	3.94 ●	2.98 ●	2.16	1.59	
146	9.95				8.70	7.13	5.90	4.31	3.57	2.92	2.13	1.62			
158	9.16				9.45	7.74	6.41	4.68	3.88	3.17					
160	9.06							8.51	7.06	5.77	4.22	3.19	2.31	1.70	
178	8.14					8.72	7.21	5.27	4.36	3.57	2.61	1.98			
185	7.85							9.33	7.74	6.33	4.63	3.49	2.53	1.86	
205	7.09						8.28	6.05	5.01	4.10	3.00	2.27	1.64	1.21	
226	6.41						9.15 ●	6.69 ●	5.54 ●	4.53 ●	3.31	2.51	1.82	1.34	
259	5.59							7.68 ●	6.35 ●	5.20 ●	3.80	2.88	2.09	1.54	
287	5.06							8.48 ●	7.02 ●	5.74 ●	4.20 ●	3.18 ●	2.30	1.70	
316	4.59							9.35	7.74	6.33	4.63	3.51	2.54	1.87	
364	3.98								8.93	7.30	5.34	4.05	2.93	2.16	
LSPX 4p and brake		3-phase 4p LSPX													
LSPX FCR		Consult us													
LSPX LS2/IE2 FCR															

● *MU obligatory*



Selection example

Required power:	4 kW
Required speed:	47 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	B52 horizontal; BS flange

Designation: Cb 3333 i: 30.2 BS S B52 - MI 4p LSPX112MU 4 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400V Y - U.G.

DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

Cb 3433
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3433

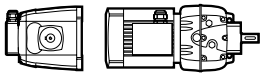
		LSPX (kW)															
		0.75	**0.9**	**1.1**	**1.5**	**1.8**	**2.2**	**3**	**4**	**5.5**	**7.5**	**9**	**11**	**15**	**18.5**	**22**	**30**
		3-phase 4p LSPX LS2/IE2															
min^{-1}	i exact	80		90			100		112	132			160		180		200
7.11	204	1.72	1.40	1.16													
8.43	172	2.03	1.66	1.37	1.00												
9.36	155	2.26	1.85	1.53	1.11												
10.3	140	2.49	2.04	1.68	1.23	1.02											
11.2	129	2.70	2.21	1.82	1.33	1.10											
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										
16.0	90.7	3.82 ●	3.13 ●	2.59	1.89	1.56	1.28										
18.1	80.1	4.32 ●	3.53 ●	2.92	2.13	1.76	1.44	1.05									
20.3	71.4	4.84 ●	3.96 ●	3.27	2.39	1.98	1.62	1.18									
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			**Cb 3433**					
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							
41.9	34.6	9.70	7.94	6.56	4.79	3.97	3.24	2.37	1.80	1.30							
45.5	31.9		8.60	7.11	5.19	4.29	3.51	2.57	1.94	1.41	1.04						
52.9	27.4		9.96	8.23	6.01	4.98	4.07	2.97	2.25	1.63	1.20	1.00					
56.8	25.5			8.82	6.44	5.33	4.36	3.18	2.41	1.75	1.29	1.07					
64.8	22.4				7.32	6.06	4.95	3.62	2.74	1.99	1.46	1.22	1.00				
73.3	19.8				8.25	6.83	5.58	4.08	3.09	2.24	1.65	1.38	1.12				
82.4	17.6				9.22	7.63	6.24	4.56	3.46	2.50	1.84	1.54	1.26				
91.9	15.8					8.49	6.94	5.07	3.84	2.78	2.05	1.71	1.40	1.02			
107	13.5					9.86	8.06	5.89	4.46	3.23	2.38	1.99	1.62	1.19			
119	12.2						8.86 ●	6.48 ●	4.90 ●	3.55	2.62	2.18	1.78	1.31	1.06 ●		
134	10.8						9.77 ●	7.14 ●	5.40 ●	3.91	2.88	2.40	1.96	1.44	1.17 ●		
150	9.67							7.72 ●	5.83 ●	4.22	3.11	2.59	2.12	1.55	1.26 ●	1.06 ●	
169	8.6							8.31 ●	6.28 ●	4.55	3.35	2.79	2.28	1.67	1.35 ●	1.14 ●	
188	7.69							8.04 ●	6.09 ●	4.41	3.25	2.71	2.21	1.62	1.31 ●	1.10 ●	
211	6.86						9.73	7.11	5.38	3.90	2.87	2.40	1.96	1.43	1.16 ●		
233	6.21							7.59 ●	5.74 ●	4.16	3.06	2.56	2.09	1.53	1.24 ●	1.04 ●	
265	5.48							7.41 ●	5.61 ●	4.06	2.99	2.50	2.04	1.49	1.21 ●	1.02 ●	
295	4.91							8.73 ●	6.61 ●	4.79	3.53	2.94	2.40	1.76	1.43 ●	1.20 ●	
332	4.37							8.63 ●	6.53 ●	4.73	3.48	2.91	2.38	1.74	1.41 ●	1.18 ●	
371	3.91							8.04 ●	6.09 ●	4.41	3.25	2.71	2.21	1.62	1.31 ●	1.10 ●	
LSPX 4p and brake		3-phase 4p LSPX															
LSPX FCR		Consult us															
LSPX LS2/IE2 FCR																	

● *MU obligatory*

Selection example

Required power:	4 kW
Required speed:	28 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	B7 horizontal; foot mounted

Designation: Cb 3433 i: 50.3 S S B7 - MI 4p LSPX112MU 4 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400V Y - U.G.



DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

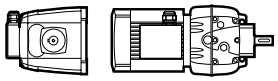
Cb 3533
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3533

		LSPX (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**
		3-phase 4p LSPX LS2/IE2															
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										
8.39	173	3.86 ●	3.16 ●	2.61	1.90	1.57	1.29										
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									
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								
14.9	97.5	6.78 ●	5.54 ●	4.58	3.34	2.76	2.26	1.65	1.25								
16.2	89.3	7.39 ●	6.04 ●	4.99 ●	3.64 ●	3.01 ●	2.46 ●	1.80	1.36								
18.8	77.2	8.52 ●	6.97 ●	5.75 ●	4.20 ●	3.47 ●	2.84 ●	2.07	1.57	1.14			**Cb 3533**				
20.8	69.8	9.10 ●	7.46 ●	6.15 ●	4.49 ●	3.71 ●	3.04 ●	2.22	1.68	1.21							
23.6	61.4	9.90 ●	8.13 ●	6.69 ●	4.88 ●	4.04 ●	3.30 ●	2.41 ●	1.82 ●	1.32							
25.6	56.6		8.52 ●	7.00 ●	5.11 ●	4.23 ●	3.46 ●	2.53 ●	1.91 ●	1.38	1.02						
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				
48.1	30.1					8.60	7.03	5.13	3.89	2.81	2.07	1.73	1.41	1.03			
53.6	27.1					9.55	7.80	5.70	4.32	3.12	2.30	1.92	1.57	1.15			
60.2	24.1						8.73	6.38	4.83	3.50	2.58	2.15	1.76	1.28	1.04 ●		
65.7	22.1						9.50 ●	6.94	5.26	3.80	2.80	2.34	1.91	1.40	1.13 ●		
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 ●	
95.6	15.2							9.61 ●	7.27 ●	5.27	3.88	3.24	2.64	1.93	1.57 ●	1.32 ●	
104	14								7.66 ●	5.55	4.09	3.41	2.79	2.04	1.65 ●	1.39 ●	1.02 ●
117	12.4								8.46 ●	6.12	4.51	3.76	3.08	2.25	1.82 ●	1.53 ●	1.13 ●
131	11.1								9.04 ●	6.55	4.82	4.02	3.29	2.41	1.95 ●	1.64 ●	1.21 ●
146	9.94											4.44	3.63	2.65	2.15 ●	1.81 ●	1.33 ●
160	9.07											4.71	3.85	2.82	2.29 ●	1.92 ●	1.41 ●
183	7.92											5.15	4.21	3.08	2.50 ●	2.10 ●	1.54 ●
202	7.18								7.66 ●	5.55	4.09	3.41	2.79	2.04	1.65 ●	1.39 ●	1.02 ●
227	6.38								8.46 ●	6.13	4.51	3.76	3.08	2.25	1.83 ●	1.53 ●	1.13 ●
255	5.7								9.04 ●	6.54	4.82	4.02	3.29	2.40	1.95 ●	1.64 ●	1.21 ●
284	5.1											5.28	4.31	3.16	2.56 ●	2.15 ●	1.58 ●
311	4.66											5.55	4.53	3.32	2.69 ●	2.26 ●	1.66 ●
356	4.07											5.94	4.86	3.55	2.88 ●	2.42 ●	1.78 ●
LSPX 4p and brake		3-phase 4p LSPX															
LSPX FCR		Consult us															
LSPX LS2/IE2 FCR																	

● *MU obligatory*



Selection example

Required power:	15 kW
Required speed:	60 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	B7 horizontal; foot mounted

Designation: Cb 3533 i: 24.1 S S B7 - MI 4p LSPX160L 15 kW LS2/IE2 - Ex II 2D Ex tb IIIC T 125°C Db - 400V Δ - U.G.

Ref. 5133 a

DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

Cb 3633
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3633

		LSPX (kW)																
		1.1	**1.5**	**1.8**	**2.2**	**3**	**4**	**5.5**	**7.5**	**9**	**11**	**15**	**18.5**	**22**	**30**	**37**	**45**	**55**[1]
		3-phase 4p LSPX LS2/IE2																
min^{-1}	i exact	90			100		112	132			160		180		200	225		250
5.8	252	2.56	1.86	1.54	1.26													
6.7	216	2.98	2.17	1.79	1.47	1.07												
7.3	199	3.24	2.36	1.95	1.60	1.17												
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											
10.6	137	4.69	3.42	2.85	2.32	1.69	1.28											
11.9	122	5.26	3.84	3.20	2.60	1.90	1.44	1.04		Cb 3633								
12.9	112				2.83 ●	2.07	1.56	1.13										
15.0	96.6				3.26 ●	2.38	1.80	1.31										
16.6	87.3				3.60 ●	2.63	1.99	1.44	1.06									
18.9	76.9				4.08 ●	2.98 ●	2.26 ●	1.63	1.20	1.00								
20.5	70.8				4.42 ●	3.23 ●	2.44 ●	1.77	1.30	1.09								
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							
28.8	50.4				6.16 ●	4.50 ●	3.41 ●	2.47 ●	1.82 ●	1.52	1.24							
33.9	42.8				6.80	4.97	3.75	2.72	2.00	1.67	1.36	1.00						
37.2	39				7.83	5.72	4.33	3.13	2.31	1.93	1.57	1.15						
42.0	34.5				8.75	6.39	4.84	3.50	2.58	2.15	1.76	1.29	1.04 ●					
46.6	31.1				9.60 ●	7.01	5.30	3.84	2.83	2.36	1.93	1.41	1.14 ●					
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 ●				
72.5	20						7.78 ●	5.63	4.15	3.46	2.83	2.07	1.68 ●	1.41 ●	1.04 ●			
81.9	17.7						8.66 ●	6.27	4.62	3.85	3.15	2.30	1.87 ●	1.57 ●	1.15 ●			
96.0	15.1						9.95 ●	7.20	5.30	4.42	3.62	2.65	2.15 ●	1.80 ●	1.33 ●	1.08 ●		
107	13.5							7.98	5.88	4.90	4.01	2.93	2.38 ●	2.00 ●	1.47 ●	1.20 ●		
120	12.1									5.40	4.41	3.23	2.62 ●	2.20 ●	1.62 ●	1.32 ●	1.08 ●	
133	10.9									5.90	4.82	3.53	2.86 ●	2.40 ●	1.77 ●	1.44 ●	1.18 ●	
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 ●
LSPX 4p and brake		3-phase 4p LSPX																
LSPX FCR **LSPX LS2/IE2 FCR**		Consult us																

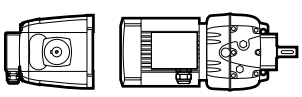
1. LS B35 obligatory

● *MU obligatory*

Selection example

Required power:	37 kW
Required speed:	105 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position, Mounting form:	B7 horizontal; foot mounted

Designation: Cb 3633 i: 13.5 S S B7 - MU 4p LSPX225ST 37 kW - LS2/IE2 - Ex II 2D - Ex tb IIIC T 125°C Db- 400V Δ - U.G.



DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

Cb 3733
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

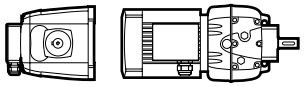
Integral mounting	**MI**
Universal mounting	**MU**
Input shaft mounting	**AP**

Cb 3733

		LSPX (kW)																	
		1.1	**1.5**	**1.8**	**2.2**	**3**	**4**	**5.5**	**7.5**	**9**	**11**	**15**	**18.5**	**22**	**30**	**37**	**45**	**55**[1]	**75**[1]
		3-phase 4p LSPX LS2/IE2																	
min^{-1}	i exact	90			100		112	132			160		180		200	225		250	280
5.9	244	6.07	4.43	3.70	2.99	2.18	1.65	1.20											
6.7	217	6.82	4.97	4.14	3.36	2.45	1.86	1.34											
7.3	198	7.48	5.45	4.54	3.68	2.69	2.04	1.47	1.09										
8.3	175	8.46	6.17	5.14	4.17	3.04	2.30	1.67	1.23	1.03									
9.2	158				4.63 ●	3.38	2.56	1.85	1.36	1.14									
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								
13.1	111				6.54 ●	4.78 ●	3.62 ●	2.62	1.93	1.61	1.31								
14.2	102				7.12 ●	5.20 ●	3.94 ●	2.85	2.10	1.75	1.43	1.05							
16.1	89.9				8.03 ●	5.86 ●	4.44 ●	3.21	2.37	1.97	1.61	1.18							
18.9	76.8				9.29 ●	6.78 ●	5.13 ●	3.71	2.74	2.28	1.86	1.36	1.11 ●						
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 ●					
29.7	48.8									2.99	2.44	1.79	1.45 ●	1.22 ●					
33.6	43.2									3.20	2.62	1.92	1.55 ●	1.31 ●					
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 ●				
39.9	36.3										2.87 ●	2.10 ●	1.71 ●	1.43 ●	1.05 ●				
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 ●				
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 ●
LSPX 4p & brake		3-phase LSPX 4p																	
LSPX FCR		Consult us																	
LSPX LS2/IE2 FCR																			

1. LS B35 obligatory

● *MU obligatory*



Selection example

Required power:	45 kW
Required speed:	70 min^{-1}
Duty factor required by the application:	Kp = 1.4 - Zone 21
Operating position; Mounting form:	B7 horizontal; foot mounted

Designation: Cb 3733 i: 20.1 S S B7 - MU 4p LSPX225MR 45 kW LS2/IE2 - Ex II 2D - Ex tb IIIC T 125°C Db - 400V Δ - U.G.

DG	<	2 WD	<	5 WD	<	10 WD	<	15 WD	<	To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a

Electromechanical products
Atmospheres containing explosive dust
Compabloc 3000

CATEGORY 2
ZONE 21
Conductive dust

Selection

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

Cb 3833
LSPX, LSPX brake - IP 65 - Cl. F
230V / 400V Y - 400V Δ - 50 Hz - U.G.
II 2D - Ex tb IIIC T 125°C Db - Zone 21

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

Cb 3833

		LSPX (kW)												
		7.5	**9**	**11**	**15**	**18.5**	**22**	**30**	**37**	**45**	**55**[1]	**75**[1]	**90**[1]	**110**[1]
		3-phase 4p LSPX LS2/IE2												
min^{-1}	i exact	132		160		180		200	225		250	280		315
6.6	220	1.47	1.23	1.00										
7.4	196	1.64	1.37	1.12										
7.9	184	1.76	1.47	1.20										
8.8	164	1.97	1.64	1.34										
9.9	146	2.22	1.85	1.51	1.11									
11.2	130	2.48	2.07	1.69	1.24	1.00 ●								
12.6	115	2.79	2.33	1.90	1.39	1.13 ●		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 ●							
17.8	81.5	3.91	3.26	2.66	1.95	1.58 ●	1.33 ●							
20.2	71.7	4.43	3.69	3.02	2.21	1.79 ●	1.50 ●	1.11 ●						
23.0	63.1	5.02	4.18	3.42	2.50	2.03 ●	1.70 ●	1.25 ●	1.02 ●					
26.0	55.7	5.67	4.73	3.86	2.83	2.29 ●	1.93 ●	1.42 ●	1.15 ●					
28.7	50.5	6.24	5.20	4.25	3.11	2.52 ●	2.12 ●	1.56 ●	1.27 ●	1.04 ●				
32.9	44.1	7.13						1.78 ●	1.45 ●	1.19 ●				
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 ●			
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 ●			
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 ●		
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 ●		
52.7	27.5		7.47	6.11	4.47	3.63 ●	3.04 ●	2.24 ●						
59.2	24.5		8.89	7.27	5.32	4.32 ●	3.62 ●	2.66 ●	2.17 ●	1.78 ●	1.47 ●			
66.2	21.9		9.88	8.08	5.92	4.80 ●	4.03 ●	2.96 ●	2.41 ●	1.98 ●	1.63 ●			
74.4	19.5			8.49	6.22	5.04 ●	4.23 ●	3.11 ●	2.53 ●	2.08 ●	1.71 ●	1.26 ●	1.05 ●	0.86 ●
83.3	17.4			9.74	7.13	5.78 ●	4.86 ●	3.57 ●	2.90 ●	2.39 ●	1.96 ●	1.44 ●	1.20 ●	0.98 ●
94.2	15.4				7.58	6.15 ●	5.16 ●	3.80 ●	3.09 ●	2.54 ●	2.09 ●	1.53 ●	1.28 ●	1.05 ●
106	13.7				8.50	6.90 ●	5.79 ●	4.26 ●	3.46 ●	2.85 ●	2.34 ●	1.72 ●	1.43 ●	1.17 ●
116	12.5				8.88	7.20 ●	6.05 ●	4.45 ●	3.62 ●	2.97 ●	2.45 ●	1.79 ●	1.49 ●	1.22 ●
132	11					8.11 ●	6.81 ●	5.01 ●	4.08 ●	3.35 ●	2.76 ●	2.02 ●	1.68 ●	1.37 ●
146	9.96					8.77 ●	7.37 ●	5.42 ●	4.41 ●	3.62 ●	2.98 ●	2.19 ●	1.82 ●	1.49 ●
166	8.75					9.65 ●	8.11 ●	5.96 ●	4.85 ●	3.99 ●	3.28 ●	2.40 ●	2.00 ●	1.64 ●
179	8.11					9.92 ●	8.34 ●		4.98 ●	4.10 ●	3.37 ●	2.47 ●	2.06 ●	1.69 ●
209	6.95						9.80 ●		5.86 ●	4.82 ●	3.96 ●	2.91 ●	2.42 ●	1.98 ●
229	6.33								6.29 ●	5.17 ●	4.25 ●	3.12 ●	2.60 ●	2.13 ●
261	5.55							9.08	7.39	6.08	5.00 ●	3.67 ●	3.06 ●	2.50 ●
289	5.01							9.85	8.02	6.60	5.43 ●	3.99 ●	3.32 ●	2.72 ●
330	4.40								8.91	7.33	6.02 ●	4.42 ●	3.68 ●	3.01 ●
355	4.08								8.95	7.36	6.06 ●	4.45 ●	3.70 ●	3.03 ●
415	3.49								9.30	7.65	6.30 ●	4.62 ●	3.85 ●	3.15 ●
456	3.18								8.01	6.59	5.43 ●	3.98 ●	3.32 ●	2.72 ●
503	2.88								9.10	7.49	6.17 ●	4.53 ●	3.77 ●	3.08 ●
LSPX 4p & brake		3-phase 4p LSPX												
LSPX FCR		Consult us												
LSPX LS2/IE2 FCR														

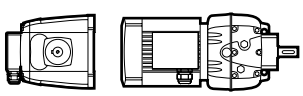
1. LS B35 obligatory

● *MU obligatory*

Selection example

Required power:	45 kW
Required speed:	29 min^{-1}
Duty factor required by the application:	Kp = 1 - Zone 21
Operating position; Mounting form:	B7 horizontal; foot mounted

Designation: Cb 3833 i: 50.5 S S B7 - MU 4p LSPX225MR 45 kW LS2/IE2 - Ex II 2D - Ex tb IIIC T 125°C Db - 400V Δ - U.G.



DG < 2 WD < 5 WD < 10 WD < 15 WD < To agree

DG: Availability ; n WD: Working Days (at the departure of the factory).

Ref. 5133 a