

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CD3182B

SIMOTICS XP - 180 M - IM B35 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

II 2G Ex db eb IIB T4 Gb

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	18.50	-/-	35.00	1470	120.0	92.6	93.1	93.0	0.82	0.77	0.67	7.2	2.5	3.3	IE3
690	Y	50	18.50	-/-	20.50	1470	120.0	92.6	93.1	93.0	0.82	0.77	0.67	7.2	2.5	3.3	IE3
460	Δ	60	18.50	-/-	30.50	1775	100.0	93.6	93.7	93.1	0.81	0.75	0.64	7.8	2.7	3.6	IE3
Converter duty (S9) - 155(F) to 130(B)																	
40	Δ	5	1		24.5	132	72.6				0.79	Type of converter Voltage source converter, general.					
200	Δ	25	7.9		31.5	725	104.3				0.80						
400	Δ	50	17.2		33	1470	111.4				0.81						
400	Δ	100	17.2		30.5	2945	55.8				0.83						
IM B35 / IM 2001		FS 180 M				IP55			IEC/EN 60034								
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 28.7 s 41.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66 / 74 dB(A) ^{2) 3)}	68 / 75 dB(A) ^{2) 3)}	Thermal class	F
Moment of inertia	0.1445 kg m ²		Duty type	S1
Bearing DE NDE	6310 C3	6310 C3	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor	250 kg
Regreasing device	Without		Motor weight incl. options	250 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled
Vibration severity grade	A			

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J21	Cable entry	-/-
Contact screw thread	M5		

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L10mh according to DIN ISO 281 10/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
DI MC LVM		DT Configurator					
	document type	datasheet			document status	released	
	title	1MB1563-1EB23-4JB4-Z			document number		
© Siemens AG 2023	B43			rev.	creation date	language	Page
				943	2023-06-27	en	1/2

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CD3182B

SIMOTICS XP - 180 M - IM B35 - 4p

Special design

B43 Version for converter operation with operating data on voltage-source DC link converter

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
SIEMENS	document type datasheet			document status released			
	title 1MB1563-1EB23-4JB4-Z			document number			
© Siemens AG 2023	B43			rev. 943	creation date 2023-06-27	language en	Page 2/2