

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



Motor type : 1CV2182B

SIMOTICS SD - 180 M - IM B3 - 4p

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

Remarks

Electrical data

Safe Area

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	1465	121.0	91.2	92.0	91.9	0.84	0.79	0.69	7.2	2.5	3.4	IE2
690	Y	50	18.50	-/-	20.00	1465	121.0	91.2	92.0	91.9	0.84	0.79	0.69	7.2	2.5	3.4	IE2
460	Δ	60	21.30	-/-	34.00	1765	115.0	92.4	93.0	92.7	0.85	0.81	0.72	6.8	2.5	3.4	IE2
460	Δ	60	18.50	-/-	30.50	1770	100.0	92.4	92.6	91.9	0.83	0.78	0.67	7.7	2.8	3.9	IE2
IM B3 / IM 1001			FS 180 M			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 11.8 s 21.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61 / 74 dB(A) ²⁾	64 / 77 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.1200 kg m ²		Thermal class	F
Bearing DE NDE	6210 Z C3	6210 Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad} min 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	160 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Yes (standard)			

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 J01	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _A /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _K /M _N = break down torque / nominal torque		

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				document status
	datasheet				released
	title				document number
	1LE1501-1EB23-4AA4-Z D22+D47				
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Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	D47	TR CU product safety certificate EAC for the Eurasian Customs Union
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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	
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	title 1LE1501-1EB23-4AA4-Z			document number			
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