

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



Motor type : 1CV3184B

SIMOTICS SD - 180 L - 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)																	
230	Δ	50	22.00	-/-	72.00	1470	143.0	93.0	93.6	93.6	0.83	0.78	0.68	6.8	2.3	3.3	IE3
400	Y	50	22.00	-/-	41.00	1470	143.0	93.0	93.6	93.6	0.83	0.78	0.68	6.8	2.3	3.3	IE3
460	Y	60	25.30	-/-	41.00	1770	136.0	93.6	94.1	94.0	0.83	0.78	0.69	6.9	2.2	3.2	IE3
460	Y	60	22.00	30.00	36.50	1775	118.0	93.6	93.8	93.3	0.81	0.75	0.65	7.7	2.8	3.7	MG1
IM B3 / IM 1001			FS 180 L		CC032A		IP55	UKCA		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12			kVA Code: K		
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 26.4 s 41.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 75 dB(A) ^{2) 3)}	70 / 77 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.1400 kg m ²		Thermal class	F
Bearing DE NDE	6310 2Z C3	6310 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} $F_{Rad min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	170 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	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Yes (standard)			

Terminal box

Terminal box position	left	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	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
 M_K/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. 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 1LE1523-1EB42-2AB6-Z			document number			
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Special design

L25 Double sides reinforced bearings for DE and NDE, Type 63

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