

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



Motor type : 1AV3132B

SIMOTICS GP Premium Insulation - 132 M - IM B14 - 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)																	
500	Y	50	7.50	-/-	11.40	1465	49.0	90.4	91.1	90.8	0.84	0.80	0.71	8.1	2.5	3.3	IE3
575	Y	60	8.60	-/-	11.40	1765	46.5	89.5	92.0	91.7	0.85	0.84	0.73	8.1	2.3	3.2	IE2
575	Y	60	7.50	10.00	9.80	1770	40.5	91.7	92.0	91.4	0.83	0.79	0.71	9.1	2.7	3.7	MG1
IM B14 / IM 3601		FS 132 M				IP55	UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 18.4 s 24.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72 / 80 dB(A) ^{2) 3)}	68 / 76 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0460 kg m ²		Thermal class	F
Bearing DE NDE	6208 2Z C3	6208 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	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	61 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

Notes:

I_A/I_N = locked rotor current / current nominal

M_K/M_N = locked rotor torque / torque nominal

M_B/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		
	title	1LE1083-1CB22-7KB4-Z			released		
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					rev.	creation date	language Page
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D41	NEMA Premium Efficiency, North American version according to NEMA MG1, Table 12-12, incl. UL and CSA
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D41

NEMA Premium Efficiency, North American version according to NEMA MG1, Table 12-12, incl. UL and CSA

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