

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



Motor type : 1AV3131A

SIMOTICS GP - 132 S - IM B3 - 2p

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

Remarks

Safe Area

Electrical data -/-

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 _f /I _N	T _i /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
415	Δ	50	7.50	-/-	12.60	2950	24.5	90.1	90.9	90.7	0.92	0.89	0.84	8.3	2.1	4.0	IE3
480	Δ	60	8.60	-/-	12.50	3550	23.0	90.2	90.5	90.0	0.92	0.91	0.85	8.4	2.1	4.1	IE3
480	Δ	60	7.50	10.00	10.90	3555	20.0	90.2	90.5	90.0	0.91	0.90	0.84	9.5	2.4	4.7	MG1
IM B3 / IM 1001		FS 132 S		CC032A		IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12				kVA Code: M			
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 12.7 s 17.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 80 dB(A) ^{2) 3)}	72 / 84 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0310 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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	57 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

I_f/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) L_{10mh} 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

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