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



Motor type : 1AV3112B **SIMOTICS GP - 112 M - IM B5 - 4p**

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

Remarks

Safe Area

Electrical data **-/-**

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
240	Δ	50	4.00	-/-	13.20	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
415	Y	50	4.00	-/-	7.70	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
480	Y	60	4.55	-/-	7.40	1760	24.5	89.5	90.0	89.3	0.83	0.78	0.67	7.3	2.5	3.8	IE3
480	Y	60	3.70	5.00	6.30	1770	20.0	89.5	90.0	88.3	0.80	0.72	0.60	8.2	2.9	4.3	MG1
IM B5 / IM 3001		FS 112 M		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) : 16.1 s | 21.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	58 / 70 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0170 kg m²	Thermal class	F
Bearing DE | NDE	6206 2Z C3 / 6206 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)	34 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	4 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

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) 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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Document type	Document status
Technical data sheet	Released
Document title	**Document number**
1LE1023-1BB22-3FB4	TDS-240716-090027

Restricted	Revision	Creation date	Language	Page
© Innomotics 2024	AA	2024-07-16	en	1/1

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