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

Motor type : 1AV3162A **SIMOTICS GP - 160 M - IM B14 - 2p**

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_l/I_N	M_A/M_N T_l/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	11.00	-/-	19.60	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5	IE3
690	Y	50	11.00	-/-	11.30	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5	IE3
460	Δ	60	12.60	-/-	19.30	3540	34.0	91.0	90.9	89.5	0.90	0.87	0.81	8.4	2.5	3.5	IE3
460	Δ	60	11.00	-/-	17.20	3555	29.5	91.0	90.4	88.4	0.88	0.85	0.77	9.5	2.9	4.0	IE3
IM B14 / IM 3601			FS 160 M			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 21.3 s | 29.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	77 / 85 dB(A) 2) 3)	82 / 90 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0370 kg m²		Thermal class	F
Bearing DE | NDE	6209 2Z C3	6209 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)	70 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		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	16 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	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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