

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



Motor type : 1AV3083B SIMOTICS XP - 80 M - IM B5 - 4p

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

Remarks

Electrical data II 3D Ex tc IIIB T 120°C Dc -/-

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)																	
400	Δ	50	0.75	-/-	1.75	1450	5.0	82.5	82.3	79.9	0.75	0.66	0.53	7.1	2.7	3.9	IE3
690	Y	50	0.75	-/-	1.01	1450	5.0	82.5	82.3	79.9	0.75	0.66	0.53	7.1	2.7	3.9	IE3
460	Δ	60	0.86	-/-	1.72	1750	4.7	83.5	83.2	80.8	0.75	0.67	0.54	7.7	2.7	4.1	IE3
460	Δ	60	0.75	-/-	1.59	1760	4.0	83.5	82.6	79.3	0.71	0.62	0.49	8.3	3.1	4.7	IE3
IM B5 / IM 3001		FS 80 M				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 16.8 s 20.3 s								

Mechanical data			
Sound level (SPL / SWL) at 50Hz 60Hz	53 / 64 dB(A) ^{2) 3)}	55 / 66 dB(A) ^{2) 3)}	Vibration severity grade
Moment of inertia	0.0029 kg m ²		Thermal class
Bearing DE NDE	6004 2Z C3	6004 2Z C3	Duty type
bearing lifetime			Direction of rotation
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material
Regreasing device	Without		Net weight of the motor (IM B3)
Grease nipple	-/-		Coating (paint finish)
Type of bearing	Preloaded bearing DE		Color, paint shade
Condensate drainage holes	Without		Motor protection
External earthing terminal	With (standard)		Method of cooling

Terminal box			
Terminal box position	top	Max. cross-sectional area	1.5 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5
Contact screw thread	M4		

Notes: I_A/I_N = locked rotor current / current nominal 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
M_K/M_N = locked rotor torque / torque nominal 2) at rated power / at full load
M_K/M_N = break down torque / nominal torque

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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