

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



Motor type : 1CE3083A

SIMOTICS XP - 80 M - IM B3 - 2p

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

Remarks

II 2G Ex eb IIC T1-T3 Gb

-/-

Electrical data

Tc	U [V]	Δ / Y	f [Hz]	P [kW]	I [A]	n [1/min]	M [Nm]	t _e -time (s)		η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								T1/T2	T3	4/4	3/4	2/4	4/4	3/4	2/4				
T1/ T2	230	Δ	50	1.10	4.15	2845	3.7	0		82.7	83.7	82.7	0.85	0.81	0.72	6.7	3.1	3.2	IE3
	400	Y	50	1.10	2.40	2845	3.7	0		82.7	83.7	82.7	0.85	0.81	0.72	6.7	3.1	3.2	IE3
T3	230	Δ	50	1.10	4.15	2845	3.7	22	14	82.7	83.7	82.7	0.85	0.81	0.72	6.7	3.1	3.2	IE3
	400	Y	50	1.10	2.40	2845	3.7	22	14	82.7	83.7	82.7	0.85	0.81	0.72	6.7	3.1	3.2	IE3
IM B3 / IM 1001		FS 80 M			IP55		IEC/EN 60034												

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

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60 / 71 dB(A) ^{2) 3)}	64 / 75 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0013 kg m ²		Thermal class	F
Bearing DE NDE	6204 2Z C3	6204 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	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	22 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	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E21	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4		

Notes:
 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

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