

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

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Motor type / Motor type : 1CD3083C

SIMOTICS XP - 80 M - IM B34 - 6p

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

Remarks / Remarks

Electrical data / Electrical data

II 2G Ex db eb IIB T4 Gb

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\varphi^{3)}$			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) / DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	0.55	-/-	2.65	935	5.6	77.2	77.0	73.9	0.67	0.57	0.44	4.5	2.5	2.8	IE3
400	Y	50	0.55	-/-	1.53	935	5.6	77.2	77.0	73.9	0.67	0.57	0.44	4.5	2.5	2.8	IE3
460	Y	60	0.55	-/-	1.34	1145	4.6	81.7	80.5	76.4	0.63	0.54	0.42	5.3	2.8	3.4	IE3
IM B34 / IM 2101		FS 80 M				IP55		IEC/EN 60034									

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

Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 43.6 s | 55 s

Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz Sound level (SPL / SWL) at 50Hz 60Hz	61 / 69 dB(A) ^{2) 3)}	45 / 56 dB(A) ^{2) 3)}	Vibration severity grade Vibration severity grade	A A
Moment of inertia Moment of inertia	0.0031 kg m ²		Thermal class Thermal class	F F
Bearing DE NDE Bearing DE NDE	6204 2Z C3	6204 2Z C3	Duty type Duty type	S1
bearing lifetime / bearing lifetime			Direction of rotation Direction of rotation	bidirectional bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material Frame material	cast iron cast iron
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾			Net weight of the motor Net weight of the motor	35 kg
Regreasing device Regreasing device	Without Without		Motor weight incl. options Motor weight incl. options	35 kg
Grease nipple Grease nipple	-/-		Coating (paint finish) Coating (paint finish)	Standard paint finish C2 Standard paint finish C2
Type of bearing Type of bearing	Locating bearing DE Locating bearing DE		Color, paint shade Color, paint shade	RAL7030
Condensate drainage holes Condensate drainage holes	Without Without		Motor protection Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals) (B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal External earthing terminal	With (standard) With (standard)		Method of cooling Method of cooling	IC411 - self ventilated, surface cooled IC411 - self ventilated, surface cooled

Terminal box / Terminal box

Terminal box position Terminal box position	top top	Max. cross-sectional area Max. cross-sectional area	4 mm ²
Material of terminal box Material of terminal box	cast iron cast iron	Cable diameter from ... to ... Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box Type of terminal box	TB1 E21	Cable entry Cable entry	-/-
Contact screw thread 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⁾ L10mh 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. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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