

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



Motor type : 1CV2083B SIMOTICS XP - 80 M - IM B35 - 4p

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

Remarks

Electrical data II 3G Ex ec IIC T3 Gc
-/-

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)																	
230	Δ	50	0.75	-/-	3.10	1440	5.0	79.6	79.9	77.5	0.76	0.67	0.54	5.6	2.2	3.1	IE2
400	Y	50	0.75	-/-	1.79	1440	5.0	79.6	79.9	77.5	0.76	0.67	0.54	5.6	2.2	3.1	IE2
460	Y	60	0.86	-/-	1.82	1740	4.7	78.0	78.5	76.7	0.76	0.69	0.56	6.2	2.2	3.3	IE2
460	Y	60	0.75	-/-	1.68	1750	4.1	78.0	77.4	74.6	0.72	0.63	0.51	6.8	2.5	3.8	IE2
IM B35 / IM 2001		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) : 14.7 s 19.7 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	A
Moment of inertia	0.0021 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)	18 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	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5
Contact screw thread	M4		

Notes:
I_A/I_N = locked rotor current / current nominal
M_K/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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
IN LVM		SPC					
	document type				document status		
	datasheet				released		
	title				document number		
	1MB1531-0DB32-2JA4						
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		951	2023-12-14	en	1/1		