

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



Motor type : 1CV3280C

SIMOTICS XP - 280 S - IM B3 - 6p

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)																	
440	Δ	60	45.00	-/-	75.00	1190	360.0	94.5	94.6	94.1	0.83	0.78	0.68	7.7	3.3	3.1	IE3
IM B3 / IM 1001			FS 280 S				IP56			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 21.4 s 30.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60 / 74 dB(A) ^{2) 3)}	66 / 80 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	1.4000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation 50 60Hz	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	510 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10		

Notes:
I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/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			
SIEMENS	document type				document status
	datasheet				released
	title				document number
	1MB1533-2DC09-0AA4-Z B02+H22+M2D+Q02				
© INNOMOTICS 2023		rev.	creation date	language	Page
		951	2023-12-14	en	1/2

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	M2D	440 VD for 60 Hz, 50-Hz power
H22	IP 56 degree of protection	Q02	Anti-condensation heating for 230 V (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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	
SIEMENS	document type datasheet			document status released			
	title 1MB1533-2DC09-0AA4-Z			document number			
© INNOMOTICS 2023	B02+H22+M2D+Q02			rev. 951	creation date 2023-12-14	language en	Page 2/2