

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



Motor type : 1CV3280B

SIMOTICS XP - 280 S - IM B3 - 4p

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

Remarks

II 3G Ex ec IIC T3 Gc

-/-

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	69.00	-/-	130.00	1485	443.7	95.1	95.2	94.8	0.85	0.81	0.72	7.5	2.7	3.3	IE3
660	Y	50	69.00	-/-	75.00	1485	443.7	95.1	95.2	94.8	0.85	0.81	0.72	7.5	2.7	3.3	IE3
440	Δ	60	79.12	-/-	127.00	1785	423.3	94.6	94.6	93.9	0.86	0.83	0.74	7.4	2.7	3.1	IE2
440	Δ	60	75.00	-/-	121.00	1788	400.0	95.4	95.3	94.5	0.85	0.81	0.72	7.7	2.8	3.3	IE3
IM B3 / IM 1001		FS 280 S		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN									

Environmental conditions : -20 °C - +50 °C / 1000 m

Locked rotor time (hot / cold) : 29.7 s | 47.7 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 83 dB(A) ^{2) 3)}	77 / 91 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	1.3900 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3	Thermal class	F
bearing lifetime			Duty type	S1
$L_{10mh} F_{Rad, min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	570 kg
Regreasing device	With (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
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_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 
	document type datasheet	document status released		document number	
	title 1MB1533-2DB03-3AB4-Z B02+C02+N06+N30+Q02		rev. 951		
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
C02	VIK version	Q02	Anti-condensation heating for 230 V (2 terminals)
N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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SIEMENS	document type datasheet	document status released			
	title 1MB1533-2DB03-3AB4-Z B02+C02+N06+N30+Q02	document number			
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