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

Motor type : 1CV4280A **SIMOTICS SD - 280 S - IM B3 - 2p**

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

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	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
DOL duty (S1) - 155(F) to 130(B)																	
440	Δ	60	77.28	-/-	119.00	3580	206.2	95.3	95.0	93.6	0.89	0.87	0.80	9.5	3.3	3.6	IE4

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) : 37 s | 50 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	72 / 86 dB(A) 2) 3)	81 / 94 dB(A) 2) 3)	External earthing terminal	Yes (standard)
Moment of inertia	0.9400 kg m²		Vibration severity grade	A
Bearing DE | NDE	6315 C3	6315 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	25 g | 25 g 2000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	600 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	right	Max. cross-sectional area	120 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5
Contact screw thread	M10	Cable gland	2 plugs

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.	technical reference	created by	approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
DI MC LVM		DT Configurator			

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204
B61	Document order dimension drawing
L51	Bearing insulation NDE
M1D	440 VD for 60 Hz, 60-Hz power
N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced

Notes:

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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