

SIMOTICS SD - 280 M - IM B3 - 2p

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

Remarks

Safe Area

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_A/I_N	T_A/T_N	T_B/T_N	
400	Δ	50	90.00	-/-	157.00	2975	290.0	94.1	94.2	93.5	0.88	0.86	0.79	7.1	2.5	3.1	IE2
690	Y	50	90.00	-/-	91.00	2975	290.0	94.1	94.2	93.5	0.88	0.86	0.79	7.1	2.5	3.1	IE2
460	Δ	60	101.00	-/-	151.00	3575	270.0	94.5	94.4	93.4	0.89	0.87	0.81	7.2	2.5	3.1	IE2
460	Δ	60	90.00	-/-	136.00	3578	240.0	94.5	94.2	93.1	0.88	0.86	0.79	7.9	2.7	3.4	IE2

IM B3 / IM 1001

FS 280 M

530 kg

IP55

C/EN 6

ISO.

[illegible]

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 25.1 s | 46.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76.0 / 89.0 dB(A) ²⁾	81.0 / 95.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.8300 kg m ²		Vibration severity grade	A
Bearing DE NDE	6315 C3	6315 C3	Insulation	155(F) to 130(B)
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 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	34.0 mm - 42.0 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	2 glands, 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.			
DI MC LVM		DT Configurator					
	document type			document status		customer	
	datasheet			released			
	title			document number			
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV2282A

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Special design

D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	R16	EMC cable gland, maximum number
L51	Bearing insulation NDE	S03	Special paint finish in sea air resistant C4

Notes:

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