

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



Motor type : 1CV2282B

SIMOTICS SD - 280 M - IM B3 - 4p

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⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
400	Δ	50	90.00	-/-	159.00	1486	580.0	94.2	94.3	93.6	0.87	0.84	0.75	7.3	2.6	3.1	IE2
690	Y	50	90.00	-/-	92.00	1486	580.0	94.2	94.3	93.6	0.87	0.84	0.75	7.3	2.6	3.1	IE2
460	Δ	60	104.00	-/-	158.00	1785	560.0	95.0	95.1	94.3	0.87	0.85	0.77	7.2	2.5	3.1	IE2
460	Δ	60	90.00	-/-	137.00	1788	480.0	94.5	94.3	93.3	0.87	0.84	0.75	8.1	2.9	3.4	IE2

IM B3 / IM 1001		FS 280 M	570 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN		
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 20.3 s | 35.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69.5 / 83.6 dB(A) ²⁾	74.0 / 88.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.4000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 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	30 g 30 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	No paint finish (cast iron parts primed)
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(H) 3 resistance thermometers PT100 (6 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm ²
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	4 plugs

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) 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		

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Special design

F70	Mounting of separately driven fan	M11	Stainless steel rating plate
G11	Rotary pulse encoder Sendix 5020 (HTL)	Q02	Anti-condensation heating for 230 V (2 terminals)
L51	Bearing insulation NDE	S00	No paint finish, only GG parts primed

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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