

SIMOTICS SD - 280 M - IM B5 - 4p

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

Remarks

Safe Area

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)																	
400	Δ	50	90.00	-/-	154.00	1488	580.0	96.1	96.4	96.3	0.88	0.85	0.78	8.5	2.8	3.4	IE4
690	Y	50	90.00	-/-	89.00	1488	580.0	96.1	96.4	96.3	0.88	0.85	0.78	8.5	2.8	3.4	IE4
460	Δ	60	90.00	-/-	135.00	1790	480.0	96.2	96.3	95.9	0.87	0.84	0.75	9.8	3.2	3.7	IE4
460	Δ	60	104.00	-/-	154.00	1788	560.0	96.2	96.4	96.3	0.88	0.86	0.79	8.7	2.8	3.2	IE4
IM B5 / IM3001			FS 280 M				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 29.5 s 43.7 s								

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 81 dB(A) ^{2) 3)}	74 / 88 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	2.0300 kg m²		Vibration severity grade	Grade A	
Bearing DE NDE	6316 C3 S0	6316 C3 S0	Thermal class	F	
permissible lateral force on (N) (N)	X ₀ : 8600	X _{0,5} : 7900	X _{max} : 7200	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L _{10mh} F _{rad,min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	30 g 30 g 8000 h		Net weight of the motor	691 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2	
Regreasing device	Flat type lubricating nipple		Color, paint shade	RAL7030	
Grease nipple	M10x1 DIN 3404 A		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled	
Condensate drainage holes	(Standard) Yes				

Terminal box position	box at the top	Max. cross-sectional area	120 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	0 mm - 0 mm
Type of terminal box	TB4N01	Cable entry	-/-
Contact screw thread	6xM10	Cable gland	-/-

I_{N1}/I_N = locked rotor current / current nominal	1) L_{10min} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_M/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_M/M_N = break down torque / nominal torque		

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					
	document type			document status			
	datasheet			released			
	title			document number			
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	B02+R51			rev.	creation date	language	Page
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4282B

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	R51	Terminal box without cable entry
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Notes:

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