

SIMOTICS SD - 280 S - IM V1 - 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	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	75.00	-/-	126.00	2978	240.0	95.6	95.8	95.6	0.90	0.88	0.83	8.5	2.8	3.2	IE4
690	Y	50	75.00	-/-	73.00	2978	240.0	95.6	95.8	95.6	0.90	0.88	0.83	8.5	2.8	3.2	IE4
460	Δ	60	75.00	-/-	110.00	3582	200.0	95.0	94.8	94.0	0.90	0.88	0.82	9.5	3.2	3.5	IE4
460	Δ	60	84.00	-/-	123.00	3580	225.0	95.4	95.4	94.8	0.90	0.90	0.85	8.5	2.9	3.1	IE4
IM V1 / IM3011			FS 280 S			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 34.1 s 52.9 s							

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) ^{2) 3)}	76 / 90 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	0.7970 kg m²		Vibration severity grade	Grade A	
Bearing DE NDE	6315 C3 S0	6315 C3 S0	Thermal class	F	
permissible lateral force on (N) (N)	X ₀ : 5300	X _{0.5} : 4750	X _{max} : 4200	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L _{10mh} F _{Rad,min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	25 g 25 g 4000 h		Net weight of the motor	566 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2	
Regreasing device	-/		Color, paint shade	RAL7030	
Grease nipple	-/		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 ...	34 mm - 45 mm
Type of terminal box	TB4N01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM10	Cable gland	-/-

Notes:

I_L/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_L/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/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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	R12			rev.	creation date	language	Page
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4280A

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Special design

R12 Terminal box rotated through 180°

Notes:

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