

SIMOTICS SD - 280 M - IM B3 - 2p

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

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	-/-	151.00	2980	290.0	95.8	96.1	95.8	0.90	0.89	0.85	8.5	2.7	3.0	IE4
690	Y	50	90.00	-/-	87.00	2980	290.0	95.8	96.1	95.8	0.90	0.89	0.85	8.5	2.7	3.0	IE4
460	Δ	60	90.00	-/-	132.00	3582	240.0	95.4	95.5	95.0	0.90	0.89	0.84	11.0	2.7	3.2	IE4
460	Δ	60	101.00	-/-	148.00	3580	270.0	95.4	95.6	95.3	0.90	0.90	0.86	9.5	2.4	2.9	IE4
IM B3 / IM1001			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) : 25.9 s 45.4 s								

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) ^{2) 3)}	76 / 90 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes	
Moment of inertia	0.8950 kg m²		External earthing terminal	(Standard) Yes	
Bearing DE NDE	6315 C3 S0	6315 C3 S0	Vibration severity grade	Grade A	
permissible lateral force on (N) (N)	X ₀ : 5200	X _{0.5} : 4700	X _{max} : 4200	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 4000 h		Frame material	cast iron	
Lubricants	UNIREX N3		Net weight of the motor	600 kg	
Regreasing device	Flat type lubricating nipple		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	3 PTC thermistors - for tripping (2 terminals)	
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled	

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	-/-

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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 	
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L51	Bearing insulation NDE
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