

SIMOTICS SD - 280 M - IM B3 - 4p

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)																	
380	Δ	50	90.00	-/-	162.00	1488	580.0	96.1	96.4	96.3	0.88	0.85	0.78	8.5	2.8	3.4	IE4
660	Y	50	90.00	-/-	93.00	1488	580.0	96.1	96.4	96.3	0.88	0.85	0.78	8.5	2.8	3.4	IE4
440	Δ	60	90.00	-/-	141.00	1790	480.0	96.2	96.3	95.9	0.87	0.84	0.75	9.8	3.2	3.7	IE4
440	Δ	60	104.00	-/-	161.00	1788	560.0	96.2	96.4	96.3	0.88	0.86	0.79	8.7	2.8	3.2	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) : 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		681 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		without (Standard)	
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
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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