

SIMOTICS SD - 280 M - IM B3 - 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	
400	Δ	50	90.00	-/-	157.00	2975	290.0	94.1	94.2	93.5	0.88	0.86	0.79	7.1	2.5	3.1	IE2
690	Y	50	90.00	-/-	91.00	2975	290.0	94.1	94.2	93.5	0.88	0.86	0.79	7.1	2.5	3.1	IE2
460	Δ	60	101.00	-/-	151.00	3575	270.0	94.5	94.4	93.4	0.89	0.87	0.81	7.2	2.5	3.1	IE2
460	Δ	60	90.00	-/-	136.00	3578	240.0	94.5	94.2	93.1	0.88	0.86	0.79	7.9	2.7	3.4	IE2
IM B3 / IM 1001			FS 280 M		530 kg		IP55	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 25.1 s | 46.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76.0 / 89.0 dB(A) ²⁾	81.0 / 95.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.8300 kg m ²		Vibration severity grade	A
Bearing DE NDE	6315 C3	6315 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	25 g 25 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(A) without (Standard)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm²
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
Contact screw thread	M10	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/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. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
	document type datasheet			document status released		customer		
	title 1LE1501-2DA23-4AA4			document number				
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