

SIMOTICS SD - 280 S - 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	$\eta^{3)}$			$\cos\varphi^{3)}$			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	75.00	-/-	134.00	2978	240.0	93.8	93.6	92.4	0.86	0.82	0.74	7.2	2.5	3.2	IE2
690	Y	50	75.00	-/-	78.00	2978	240.0	93.8	93.6	92.4	0.86	0.82	0.74	7.2	2.5	3.2	IE2
460	Δ	60	84.00	-/-	128.00	3578	225.0	94.5	94.1	92.7	0.87	0.84	0.76	7.2	2.5	3.1	IE2
460	Δ	60	75.00	-/-	116.00	3580	200.0	93.6	92.9	91.1	0.87	0.83	0.74	7.7	2.8	3.5	IE2

IM B3 / IM 1001	FS 280 S	490 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
-----------------	----------	--------	------	--------------	------------------------

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

Locked rotor time (hot / cold) : 28.3 s | 48.2 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	0.7100 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	with regreasing nipple		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 71412 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	right	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	1 gland, 1 plug

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	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>
-------------------------------	---------------------	-------------------------------	-------------	---

	document type	document status		customer	
	datasheet	released			
	title	document number			
	1LE1501-2DA03-4AA5-Z				
	F74+F76+H07+L19+R10+R15	rev.	creation date	language	Page
© Siemens AG 2021		01	2021-04-22 00:34	en	1/2

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV2280A

SIMOTICS SD - 280 S - IM B3 - 2p

Special design

F74	Sheet steel fan cowl	L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A
F76	Metal external fan	R10	Rotation of the terminal box through 90°, entry from DE
H07	Stainless steel screws and bolts (outside the motor)	R15	One metal cable gland

Notes:

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 1LE1501-2DA03-4AA5-Z			document number				
© Siemens AG 2021	F74+F76+H07+L19+R10+R15			rev. 01	creation date 2021-04-22 00:34	language en	Page 2/2	