

SIMOTICS SD - 280 S - IM B3 - 4p

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)																	
220	Δ	50	75.00	-/-	235.00	1490	480.0	96.0	96.2	96.0	0.87	0.84	0.76	8.5	2.8	3.4	IE4
380	Y	50	75.00	-/-	136.00	1490	480.0	96.0	96.2	96.0	0.87	0.84	0.76	8.5	2.8	3.4	IE4
440	Y	60	86.00	-/-	135.00	1790	460.0	96.2	96.4	96.1	0.87	0.85	0.78	8.9	2.8	3.3	IE4
IM B3 / IM1001			FS 280 S			IP65	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 32.7 s 46 s								

Sound level (SPL / SWL) at 50Hz 60Hz	64 / 78 dB(A) ^{2) 3)}	67 / 82 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes	
Moment of inertia	1.7400 kg m²		External earthing terminal	(Standard) Yes	
Bearing DE NDE	6316 C3 S0	6316 C3 S0	Vibration severity grade	Grade A	
permissible lateral force on (N) (N)	X ₀ : 8600	X _{0.5} : 7900	X _{max} : 7200	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	30 g 30 g 8000 h		Frame material	cast iron	
Lubricants	UNIREX N3		Net weight of the motor	610 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 resistance thermometers PT100 (6 terminals)	
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC416 - separately ventilated, surface cooled	

Terminal box position	at the right	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_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) L_{10mh} 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.	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			
	1LE5504-2DB02-1AH5-Z						
	F70+G11+H20+L51+Q33			rev.	creation date	language	Page
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4280B

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Special design

F70	Mounting of separately driven fan	L51	Bearing insulation NDE
G11	Rotary pulse encoder Sendix 5020 (HTL)	Q33	3 Bi-metallic sensors (opener) for tripping (6 terminals)
H20	IP 65 degree of protection		

Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
SIEMENS	document type datasheet			document status released			
	title 1LE5504-2DB02-1AH5-Z			document number			
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