

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



Motor type : 1CV4286B

SIMOTICS SD - 280 M - IM B3 - 4p

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

Electrical data																		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	110.00	-/-	187.00	1490	700.0	96.3	96.6	96.5	0.88	0.85	0.78	9.5	2.9	3.5	IE4		
690	Y	50	110.00	-/-	109.00	1490	700.0	96.3	96.6	96.5	0.88	0.85	0.78	9.5	2.9	3.5	IE4		
460	Δ	60	110.00	-/-	165.00	1791	590.0	96.2	96.3	95.9	0.87	0.84	0.75	11.0	3.3	3.8	IE4		
460	Δ	60	127.00	-/-	188.00	1790	680.0	96.2	96.4	96.2	0.88	0.86	0.79	9.4	2.8	3.3	IE4		
IM B3 / IM1001		FS 280 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN									
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 23.4 s 35.5 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 84 dB(A) ^{2) 3)}	73 / 88 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	2.5500 kg m²		Vibration severity grade	Grade A
Bearing DE NDE	6316 C3 S0	6316 C3 S0	Thermal class	F
permissible lateral force on (N)	X ₀ : 8450	X _{0.5} : 7720	Duty type	S1
(N)				
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	785 kg
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		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

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	-/-

Notes:		
I _A /I _N = locked rotor current / current nominal	1) L _{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

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 1LE5504-2DB63-4AA4			document number			
© INNOMOTICS 2023				rev. 951	creation date 2023-12-14	language en	Page 1/1