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

Motor type : 1CV4282A **SIMOTICS SD - 280 M - IM B35 - 2p**

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

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
500	Δ	50	90.00	-/-	122.00	2978	290.0	95.8	95.9	95.4	0.89	0.87	0.80	8.4	2.7	3.5	IE4
575	Δ	60	101.00	-/-	118.00	3578	270.0	95.4	95.3	94.6	0.90	0.88	0.83	8.7	3.0	3.3	IE4
575	Δ	60	90.00	-/-	106.00	3580	240.0	95.4	95.2	94.2	0.89	0.87	0.80	9.5	3.3	3.7	IE4
IM B35 / IM 2001			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) : 26.3 s | 41.9 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	73 / 87 dB(A) 2) 3)	81 / 95 dB(A) 2) 3)	
Moment of inertia	1.0000 kg m²		
Bearing DE | NDE	6315 C3	6315 C3	
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	
Relubrication interval/quantity DE | NDE	25 g | 25 g 4000 h		
Lubricants	Unirex N3		
Regreasing device	With regreasing nipple		
Grease nipple	M10x1 DIN 71412 A		
Type of bearing	Locating bearing DE		
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		
Condensate drainage holes	With (standard)		

External earthing terminal	With (standard)
Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor (IM B3)	610 kg
Coating (paint finish)	Special paint finish C3
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	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	TB1 N61	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	4 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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

Link documents

SIEMENS

document type	document status
datasheet	released
title	document number
1LE1604-2DA24-0JB4-Z	
H01+L19+L51+R52	

rev.	creation date	language	Page
943	2023-06-26	en	1/2

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Special design

H01	Bolted on mounting feet (instead of cast)	L51	Bearing insulation NDE
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A	R52	Drilled removable entry plate

Notes:

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DI MC LVM		DT Configurator			

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