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

Motor type : 1CV2282D **SIMOTICS SD - 280 M - IM V35 - 8p**

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
380	Δ	50	45.00	-/-	94.00	738	580.0	92.4	92.8	92.4	0.79	0.74	0.63	5.7	2.5	2.5	IE2
660	Y	50	45.00	-/-	54.00	738	580.0	92.4	92.8	92.4	0.79	0.74	0.63	5.7	2.5	2.5	IE2
440	Δ	60	54.00	-/-	95.00	885	580.0	93.0	93.7	93.5	0.80	0.76	0.67	5.5	2.4	2.4	IE2
440	Δ	60	45.00	-/-	83.00	890	485.0	91.7	91.7	90.8	0.78	0.72	0.60	6.5	2.7	2.7	IE2

IM V35 / IM 2031	FS 280 M	510 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 26.3 s | 42.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	66.0 / 80.0 dB(A) 2)	65.0 / 79.0 dB(A) 2)	External earthing terminal	Yes (standard)
Moment of inertia	1.4000 kg m²		Vibration severity grade	A
Bearing DE | NDE	6317 C3	6317 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	30 g | 30 g 8000 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	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	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.	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.*

SIEMENS

document type	document status	customer
datasheet	released	
title	document number	
1LE1501-2DD23-3YA5		

rev.	creation date	language	Page
01	2021-05-11 12:02	en	1/1