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

Motor type : 1CV2205A **SIMOTICS SD - 200 L - IM B3 - 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
400	Δ	50	37.00	-/-	66.00	2960	119.0	92.5	93.0	92.7	0.88	0.85	0.77	7.4	2.7	3.5	IE2
690	Y	50	37.00	-/-	38.00	2960	119.0	92.5	93.0	92.7	0.88	0.85	0.77	7.4	2.7	3.5	IE2
460	Δ	60	41.50	-/-	64.00	3560	111.0	93.0	93.2	92.6	0.88	0.85	0.78	7.3	2.9	3.5	IE2
460	Δ	60	37.00	-/-	58.00	3565	99.0	92.4	92.4	91.5	0.87	0.83	0.75	8.1	3.3	3.8	IE2

IM B3 / IM 1001	FS 200 L	225 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN

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

Locked rotor time (hot / cold) : 16 s | 29.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	78.0 / 85.0 dB(A) 2)	82.0 / 89.0 dB(A) 2)	External earthing terminal	Yes (standard)
Moment of inertia	0.1500 kg m²		Vibration severity grade	A
Bearing DE | NDE	6212 Z C3	6212 Z 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
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	25.0 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5
Contact screw thread	M6	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		
1LE1501-2AA53-4AA4				
	rev.	creation date	language	Page
	01	2021-04-21 23:07	en	1/1