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

Motor type : 1CV3222A **SIMOTICS SD Premium Insulation - 225 M - 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
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	45.00	-/-	78.00	2960	145.0	94.0	94.5	94.4	0.89	0.88	0.84	6.9	2.4	3.1	IE3
690	Y	50	45.00	-/-	45.00	2960	145.0	94.0	94.5	94.4	0.89	0.88	0.84	6.9	2.4	3.1	IE3
460	Δ	60	51.00	-/-	77.00	3560	137.0	93.6	94.0	93.8	0.89	0.88	0.85	6.8	2.4	3.0	IE3
460	Δ	60	45.00	-/-	68.00	3565	121.0	93.6	93.8	93.4	0.89	0.88	0.84	7.7	2.7	3.5	IE3
IM B3 / IM 1001		FS 225 M		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN								KS C IEC60034-2-1	

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

Locked rotor time (hot / cold) : 21.8 s | 55.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	73 / 87 dB(A) 2)	75 / 89 dB(A) 2)	Vibration severity grade	A
Moment of inertia	0.2650 kg m²		Thermal class	F
Bearing DE | NDE	6213 Z C3	6213 Z C3	Duty type	S1
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
Lubricants	Unirex N3		Net weight of the motor (IM B3)	315 kg
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
External earthing terminal	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	35 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5
Contact screw thread	M8	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	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
DI MC LVM		DT Configurator			

SIEMENS

document type	document status
datasheet	released
title: **1LE1583-2BA23-4AA4**	document number

rev.	creation date	language	Page
01	2022-03-28	en	1/1