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

Motor type : 1CV3252A **SIMOTICS SD - 250 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	55.00	-/-	95.00	2975	177.0	94.3	94.5	93.9	0.89	0.87	0.80	6.7	2.3	3.1	IE3
690	Y	50	55.00	-/-	55.00	2975	177.0	94.3	94.5	93.9	0.89	0.87	0.80	6.7	2.3	3.1	IE3
460	Δ	60	62.00	-/-	92.00	3575	166.0	93.6	93.6	92.7	0.90	0.88	0.82	6.7	2.3	3.0	IE3
460	Δ	60	55.00	-/-	83.00	3578	147.0	93.6	93.4	92.3	0.89	0.87	0.79	7.3	2.5	3.3	IE3
IM B3 / IM 1001		FS 250 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) : 34.1 s | 54.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	73 / 87 dB(A) 2) 3)	76 / 90 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.4600 kg m²		Thermal class	F
Bearing DE | NDE	NU 215	6215 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
Regreasing device	No		Net weight of the motor (IM B3)	385 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Yes (standard)		Motor protection	(A) without (Standard)
External earthing terminal	Yes (standard)		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 - 42 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	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
DI MC LVM		DT Configurator			

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document type	document status
datasheet	released
title: **1LE1503-2CA23-4AA4-Z** **B02+L22**	document number

rev.	creation date	language	Page
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L22	Bearing design for increased cantilever forces

Notes:

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