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

Motor type : 1CV3222B | **SIMOTICS SD - 225 M - IM B3 - 4p**

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

Remarks

Safe Area

Electrical data
-/-

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)
230	Δ	50	45.00	-/-	139.00	1478	290.0	94.2	94.9	95.0	0.86	0.83	0.75	6.6	2.6	2.6	IE3
400	Y	50	45.00	-/-	80.00	1478	290.0	94.2	94.9	95.0	0.86	0.83	0.75	6.6	2.6	2.6	IE3
460	Y	60	52.00	-/-	81.00	1778	280.0	94.1	94.7	94.8	0.86	0.84	0.77	6.8	2.6	2.6	IE2
460	Y	60	45.00	-/-	70.00	1782	240.0	95.0	95.3	95.1	0.85	0.81	0.73	7.7	3.0	3.0	IE3

IM B3 / IM 1001	FS 225 M		IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN		

Environmental conditions : -20 °C - +40 °C / 1000 m	Locked rotor time (hot / cold) : 33.7 s | 53.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	65 / 78 dB(A) 2) 3) 68 / 82 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.5200 kg m²	Thermal class	F
Bearing DE | NDE	6213 Z C3 6213 Z C3	Duty type	S1
bearing lifetime L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h 32000 h	Direction of rotation	bidirectional
		Frame material	cast iron
Regreasing device	Without	Net weight of the motor (IM B3)	340 kg
Grease nipple	-/-	Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE	Color, paint shade	RAL7030
Condensate drainage holes	With (standard)	Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	With (standard)	Method of cooling	IC416 - separately ventilated, surface cooled

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	2xM50x1,5-2xM20x1,5
Contact screw thread	M8	Cable gland	4 plugs

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) L_{10mh} 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 department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents

SIEMENS

Document type	Technical data sheet	Document status	Released
Document title	**1LE1503-2BB22-2AB4-Z** F70+G11	Document number	TDS-240518-214053

Special design

F70	Mounting of separately driven fan	G11	Rotary pulse encoder Sendix 5020 (HTL)

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IN LVM		SPC	Created automatically		

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