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

Motor type : 1CV4222B **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	-/-	141.00	1485	290.0	95.4	95.7	95.4	0.84	0.80	0.70	8.0	3.4	3.3	IE4
400	Y	50	45.00	-/-	81.00	1485	290.0	95.4	95.7	95.4	0.84	0.80	0.70	8.0	3.4	3.3	IE4
460	Y	60	52.00	-/-	80.00	1785	280.0	95.4	95.6	95.2	0.85	0.81	0.72	8.2	3.2	3.2	IE3
460	Y	60	45.00	-/-	71.00	1786	240.0	95.4	95.4	94.7	0.83	0.78	0.67	9.3	3.9	3.7	IE4
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) : 40.4 s | 54.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	64 / 79 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.6600 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
Regreasing device	Without	Net weight of the motor (IM B3)	415 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	IC411 - self 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	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LVM		SPC	Created automatically		

SIEMENS

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