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

Motor type : 1CV3220B **SIMOTICS SD - 225 S - 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)																	
380	Δ	50	37.00	-/-	70.00	1478	240.0	93.9	94.5	94.4	0.86	0.83	0.74	6.4	2.5	2.7	IE3
660	Y	50	37.00	-/-	40.00	1478	240.0	93.9	94.5	94.4	0.86	0.83	0.74	6.4	2.5	2.7	IE3
440	Δ	60	42.50	-/-	69.00	1778	230.0	93.6	94.1	93.9	0.86	0.83	0.75	6.7	2.4	2.7	IE2
440	Δ	60	37.00	-/-	60.00	1782	198.0	94.5	94.7	94.2	0.85	0.81	0.71	7.5	2.8	3.0	IE3
IM B3 / IM 1001			FS 225 S			IP55	UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 36.5 s | 55.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	65 / 78 dB(A) 2) 3)	68 / 82 dB(A) 2) 3)	
Moment of inertia	0.4200 kg m²		
Bearing DE | NDE	6213 Z C3	6213 Z C3	
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	
Regreasing device	Without		
Grease nipple	-/-		
Type of bearing	Locating bearing DE		
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		
Condensate drainage holes	With (standard)		
External earthing terminal	With (standard)		

Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor (IM B3)	285 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(F) 1 temperature sensor KTY84-130 (2 terminals)
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		

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Document type	Document status
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Special design

G04	Mounted rotary pulse encoder LL 861 900 220	L51	Bearing insulation NDE

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