

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



Motor type : 1CV1222B

SIMOTICS SD - 225 M - IM B5 - 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⁾			$\cos\phi$ ³⁾			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
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	45.00	-/-	87.00	1475	290.0	91.7	92.1	91.7	0.86	0.83	0.74	7.2	2.6	3.2	IE1
660	Y	50	45.00	-/-	50.00	1475	290.0	91.7	92.1	91.7	0.86	0.83	0.74	7.2	2.6	3.2	IE1
440	Δ	60	52.00	-/-	84.00	1770	280.0	93.0	93.4	92.9	0.87	0.84	0.77	7.2	2.6	3.2	IE1
IM B5 / IM 3001		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) : 8.7 s 23.2 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	71 / 82 dB(A) ^{2) 3)}	74 / 86 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.4500 kg m ²		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)	290 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Motor protection	(K) 1 Pt1000 resistance thermometer(2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	With (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	35 mm ²
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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
	Document type Technical data sheet	Document status Released			
	Document title 1LE1502-2BB23-3FK4-Z D22+D47+F70+G06+L51	Document number TDS-240614-121725			
Restricted © Innomotics 2024	Revision AA	Creation date 2024-06-14	Language en	Page 1/2	

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Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	G06	Mounting a rotary pulse encoder HOG 10 D 1024 I
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	L51	Bearing insulation NDE
F70	Mounting of separately driven fan		

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