

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



Motor type : 1CV1220B

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	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	37.00	-/-	69.00	1475	240.0	91.2	91.6	91.1	0.85	0.81	0.71	7.0	2.3	3.2	IE1
690	Y	50	37.00	-/-	40.00	1475	240.0	91.2	91.6	91.1	0.85	0.81	0.71	7.0	2.3	3.2	IE1
460	Δ	60	42.50	-/-	67.00	1775	230.0	93.0	93.3	92.5	0.86	0.83	0.74	7.0	2.3	3.2	IE1
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) : 13.2 s 22.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 82 dB(A) ^{2) 3)}	72 / 86 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.3700 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)	260 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	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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
Contact screw thread	M8	Cable gland	2 plugs

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque
1) L_{10mh} according to DIN ISO 281 10/2010
2) at rated power I at full load
3) Value is valid only for DOL operation with motor design IC411

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SIEMENS	Document type Technical data sheet			Document status Released			
	Document title 1LE1502-2BB03-4AA4			Document number TDS-240510-155453			
Restricted © Innomotics 2024				Revision AA	Creation date 2024-05-10	Language en	Page 1/1

