

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



Motor type : 1CV4222A

SIMOTICS SD - 225 M - IM B3 - 2p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N I_f/I_N	M_A/M_N T_f/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)																	
400	Δ	50	45.00	-/-	80.00	2970	145.0	95.0	95.0	94.4	0.85	0.81	0.71	8.8	3.1	4.1	IE4
690	Y	50	45.00	-/-	46.50	2970	145.0	95.0	95.0	94.4	0.85	0.81	0.71	8.8	3.1	4.1	IE4
460	Δ	60	51.00	-/-	78.00	3570	136.0	94.5	94.4	93.6	0.87	0.83	0.74	8.7	3.1	4.0	IE4
460	Δ	60	45.00	-/-	70.00	3575	120.0	94.5	94.3	93.3	0.85	0.80	0.70	9.8	3.5	4.6	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) : 20.9 s | 29 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 86 dB(A) ^{2) 3)}	76 / 87 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	0.2600 kg m ²		Vibration severity grade	A
Bearing DE NDE	6313 C3	6313 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} , F _{Rad} min 50 60Hz for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	20 g 20 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	330 kg
Regreasing device	With (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	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

Notes:

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) L10mh 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 dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents 
SIEMENS	document type datasheet	document status released		document number	
	title 1LE1604-2BA23-4AB4-Z L51	rev. 943	creation date 2023-03-08		
© Siemens AG 2023					

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





Motor type : 1CV4222A

SIMOTICS SD - 225 M - IM B3 - 2p

Special design

L51 Bearing insulation NDE

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents 
SIEMENS	document type datasheet		document status released		
	title 1LE1604-2BA23-4AB4-Z L51		document number		
© Siemens AG 2023		rev. 943	creation date 2023-03-08	language en	Page 2/2