

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



Motor type : 1CV4222B

SIMOTICS SD - 225 M - IM B35 - 4p

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

Electrical data

Safe Area

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 155(F)																	
400	Δ	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
690	Y	50	45.00	-/-	47.00	1485	290.0	95.4	95.7	95.4	0.84	0.80	0.70	8.0	3.4	3.3	IE4
460	Δ	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	Δ	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 B35 / IM 2001		FS 225 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - + °C / 1,000 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)}	68 / 81 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	0.6600 kg m ²		Vibration severity grade	A
Bearing DE NDE	6213 C3	6213 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz			Frame material	cast iron
Relubrication interval/quantity DE NDE	20 g	20 g	Net weight of the motor (IM B3)	415 kg
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (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 1) L10mh according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411

M_K/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

M_B/M_N = break down torque / nominal torque

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
DI MC LVM		DT Configurator					
	document type	datasheet			document status		
					released		
	title	1LE1504-2BB23-4JB4-Z			document number		
	B02+F74+F76+H01+H02+H07+L02+L23+N03			rev.	creation date	language	Page
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	H07	Stainless steel screws and bolts (outside the motor)
F74	Sheet steel fan cowl	L02	Full-key balancing
F76	Metal external fan	L23	Regreasing system
H01	Bolted on mounting feet (instead of cast)	N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature
H02	Vibration-proof version		

Notes:

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