

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



Motor type : 1CV3252B

SIMOTICS SD - 250 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 130(B)																	
400	Δ	50	52.80	-/-	93.00	1480	340.7	94.7	95.1	95.0	0.87	0.83	0.75	7.1	2.6	3.0	IE3
690	Y	50	52.80	-/-	54.00	1480	340.7	94.7	95.1	95.0	0.87	0.83	0.75	7.1	2.6	3.0	IE3
460	Δ	60	60.48	-/-	93.00	1780	324.5	94.2	94.5	94.4	0.87	0.83	0.76	7.0	2.5	2.9	IE2
460	Δ	60	55.00	-/-	84.00	1786	295.0	95.4	95.6	95.1	0.86	0.83	0.74	7.6	2.8	3.2	IE3
IM B35 / IM 2001		FS 250 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +45 °C / 1000 m Locked rotor time (hot / cold) : 34.9 s | 55 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66 / 79 dB(A) ^{2) 3)}	68 / 82 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.8500 kg m ²		Thermal class	F
Bearing DE NDE	6215 Z C3	6215 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)	420 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	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	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) 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 dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 	
	document type datasheet			document status released			
	title 1LE1503-2CB23-4JC4-Z			document number			
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Special design

D47	TR CU product safety certificate EAC for the Eurasian Customs Union	N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced
H01	Bolted on mounting feet (instead of cast)		

Notes:

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