

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



Motor type : 1CV3205A

SIMOTICS SD - 200 L - IM B35 - 2p

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	$\eta^{3)}$			$\cos\phi^{3)}$			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_A/I_N	T_A/T_N	T_K/T_N	
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	34.04	-/-	105.00	2955	110.0	93.9	94.2	93.9	0.87	0.83	0.76	7.7	2.7	3.5	IE3
400	Y	50	34.04	-/-	60.00	2955	110.0	93.9	94.2	93.9	0.87	0.83	0.76	7.7	2.7	3.5	IE3
460	Y	60	38.18	-/-	58.00	3555	102.6	93.1	93.2	92.6	0.88	0.85	0.78	7.7	2.7	3.5	IE2
460	Y	60	37.00	-/-	57.00	3560	99.0	93.0	93.1	92.3	0.88	0.85	0.77	7.6	2.7	3.3	IE3
IM B35 / IM 2001		FS 200 L				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 27.7 s | 46.8 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	74 / 81 dB(A) ^{2) 3)}	79 / 86 dB(A) ^{2) 3)}	External earthing terminal	Yes (standard)
Moment of inertia	0.1580 kg m ²		Vibration severity grade	A
Bearing DE NDE	6312 C3	6312 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	20 g 20 g	2000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	250 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	25 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	M6	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.	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						
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	datasheet	released						
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	R11	Terminal box rotated through 90°, cable entry from NDE
F76	Metal external fan	R62	Cast iron auxiliary terminal box (small)
N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced	Y80	Supplementary rating plate with different data
Q02	Anti-condensation heating for 230 V (2 terminals)		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
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