

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



Motor type : 1CV1182B

SIMOTICS SD - 180 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	$\eta^{3)}$			$\cos\varphi^{3)}$			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	
380	Δ	50	17.75	-/-	35.50	1465	115.7	89.4	90.2	90.2	0.85	0.81	0.72	7.6	2.3	3.2	IE1
660	Y	50	17.75	-/-	20.50	1465	115.7	89.4	90.2	90.2	0.85	0.81	0.72	7.6	2.3	3.2	IE1
440	Δ	60	20.44	-/-	35.00	1765	110.6	91.1	91.9	91.8	0.85	0.81	0.73	7.9	2.3	3.3	IE1
IM B35 / IM 2001		FS 180 M		170 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +45 °C / 1,000 m

Locked rotor time (hot / cold) : 8.67 s | 14.4 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	63.0 / 76.0 dB(A) ²⁾	65.0 / 79.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1300 kg m ²		Vibration severity grade	A
Bearing DE NDE	6210 Z C3	6210 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad, min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (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	16.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 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.			
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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)
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	M11	Stainless steel rating plate
H00	Canopy	N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced

Notes:

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