

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



Motor type : 1CV3182B

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	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	16.09	-/-	31.50	1470	104.5	92.9	93.0	92.7	0.79	0.73	0.63	8.3	2.9	3.8	IE3
690	Y	50	16.09	-/-	18.30	1470	104.5	92.9	93.0	92.7	0.79	0.73	0.63	8.3	2.9	3.8	IE3
460	Δ	60	18.53	-/-	31.00	1770	100.0	92.6	92.6	92.0	0.81	0.75	0.65	8.3	2.8	3.7	IE2
460	Δ	60	18.50	-/-	30.50	1775	100.0	93.6	93.6	92.7	0.81	0.74	0.62	8.7	2.6	3.8	IE3
IM B35 / IM 2001		FS 180 M				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						

Environmental conditions : -20 °C - +55 °C / 1,000 m

Locked rotor time (hot / cold) : 27.8 s | 40.2 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 / 73 dB(A) ²⁾	68 / 75 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.1300 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 310	6310 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	15 g 15 g	4000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	165 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4 RAL7030
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	
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	16 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19 mm - 28 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_K/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					
	document type			document status			
	datasheet			released			
	title			document number			
	1LE1603-1EB23-4JB4-Z						
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B02	Acceptance test certificate 3.1 acc. to EN 10204	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
B65	Normal test (routine test) with acceptance	Q02	Anti-condensation heating for 230 V (2 terminals)
F76	Metal external fan	S03	Special paint finish in sea air resistant C4
H07	Stainless steel screws and bolts (outside the motor)	Y53	Paint finish in other standard RAL colours
L22	Bearing design for increased cantilever forces	Y80	Supplementary rating plate with different data
N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced		

Space heaters

Technical data: 1-phase, 230 V 50W

Notes:

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