

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



Motor type : 1CV1164B

SIMOTICS SD - 160 L - 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	
380	Δ	50	14.39	-/-	30.50	1460	94.1	88.7	88.9	87.4	0.81	0.74	0.61	7.8	3.1	3.8	IE1
660	Y	50	14.39	-/-	17.50	1460	94.1	88.7	88.9	87.4	0.81	0.74	0.61	7.8	3.1	3.8	IE1
440	Δ	60	16.60	-/-	29.00	1755	90.3	90.6	90.8	89.4	0.83	0.78	0.66	8.3	3.0	3.8	IE1
IM B35 / IM 2001		FS 160 L		kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 6.88 s | 14 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	65.0 / 77.0 dB(A) ²⁾	69.0 / 81.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0560 kg m ²		Vibration severity grade	A
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	No paint finish (cast iron parts primed)
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_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. 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.				
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced
H00	Canopy	Q02	Anti-condensation heating for 230 V (2 terminals)
H07	Stainless steel screws and bolts (outside the motor)	S00	No paint finish, only GG parts primed
M11	Stainless steel rating plate		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

Notes:

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