

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



Motor type : 1CV4132B

SIMOTICS SD - 132 M - IM B5 - 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	7.50	-/-	14.40	1470	48.5	92.6	93.1	92.7	0.81	0.75	0.64	7.7	3.0	4.0	IE4
690	Y	50	7.50	-/-	8.40	1470	48.5	92.6	93.1	92.7	0.81	0.75	0.64	7.7	3.0	4.0	IE4
460	Δ	60	8.60	-/-	14.20	1770	46.5	92.4	92.8	92.4	0.82	0.77	0.67	7.9	2.9	3.9	IE4
460	Δ	60	7.50	-/-	12.70	1775	40.5	92.4	92.5	91.8	0.80	0.74	0.63	8.8	3.4	4.5	IE4
IM B5 / IM 3001			FS 132 M			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 27.5 s 36.5 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	56 / 68 dB(A) ²⁾	61 / 73 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0460 kg m ²		Vibration severity grade	A
Bearing DE NDE	6308 Z C3	6208 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} min ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz			Frame material	cast iron
Relubrication interval/quantity DE	10 g 10 g		Net weight of the motor (IM B3)	80 kg
NDE	8000 h		Coating (paint finish)	Standard paint finish C2
Lubricants	Unirex N3		Color, paint shade	RAL7030
Regreasing device	Yes		Motor protection	(A) without (Standard)
Grease nipple	M8x1 DIN 71412		Method of cooling	IC411 - self ventilated, surface cooled
Type of bearing	Preloaded bearing DE			
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H01	Cable entry	2xM32x1,5
Contact screw thread	M4	Cable gland	2 plugs

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

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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Special design

L22	Bearing design for increased cantilever forces	L23	Regreasing system
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