

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



Motor type : 1AV2136A

SIMOTICS GP - 132 M - IM B5 - 2p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
400	Δ	50	11.00	-/-	20.00	2950	35.5	89.4	90.1	89.9	0.89	0.86	0.77	7.9	2.3	3.2	IE2
690	Y	50	11.00	-/-	11.60	2950	35.5	89.4	90.1	89.9	0.89	0.86	0.77	7.9	2.3	3.2	IE2
460	Δ	60	12.60	-/-	19.50	3550	34.0	90.2	90.7	90.5	0.90	0.88	0.85	8.2	2.3	3.2	IE2
460	Δ	60	11.00	-/-	17.00	3555	29.5	90.2	90.5	89.8	0.90	0.89	0.84	9.3	2.7	3.6	IE2
IM B5 / IM 3001		FS 132 M		57 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 6.81 s | 12 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68.0 / 80.0 dB(A) ²⁾	72.0 / 84.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0310 kg m ²		Vibration severity grade	A
Bearing DE NDE	6308 2Z C3	6208 2Z 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	aluminum
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	6.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11.0 mm - 21.0 mm
Type of terminal box	TB1 H00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	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.			
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Special design

F74	Sheet steel fan cowl	L22	Bearing design for increased cantilever forces
H23	Radial sealing ring at the DE for flange types of construction, oil-tight up to 0.1 bar	P02	Next smaller flange
L20	Locating bearing, DE		

Notes:

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