

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



Motor type : 1AV3206A

SIMOTICS GP - 200 L - IM V1 - 2p

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

Remarks

Electrical data	Safe Area -/-
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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	43.20	-/-	77.00	2950	139.8	94.1	94.4	93.7	0.87	0.83	0.75	7.4	2.6	3.3	IE3
690	Y	50	43.20	-/-	44.50	2950	139.8	94.1	94.4	93.7	0.87	0.83	0.75	7.4	2.6	3.3	IE3
460	Δ	60	48.96	-/-	75.00	3555	131.5	93.6	93.7	93.0	0.88	0.84	0.77	7.7	2.7	3.3	IE3
460	Δ	60	45.00	-/-	70.00	3560	121.0	93.6	93.3	92.3	0.86	0.82	0.74	8.4	3.0	3.7	IE3
IM V1 / IM 3011			FS 200 L				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +45 °C / 1000 m									Locked rotor time (hot / cold) : 22.7 s 44.6 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	72 / 85 dB(A) ^{2) 3)}	78 / 91 dB(A) ^{2) 3)}	External earthing terminal	With
Moment of inertia	0.1700 kg m ²		Vibration severity grade	A
Bearing DE NDE	6212 C3	6212 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	15 g 15 g	2000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	194 kg
Regreasing device	With		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	With		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	25 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L00	Cable entry	2xM50x1,5-1xM16x1,5
Contact screw thread	M6	Cable gland	3 plugs

Notes:		
I_A/I_N = locked rotor current / current nominal	1) L_{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_A/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_K/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		
IN LVM		SPC						
SIEMENS	document type	datasheet			document status			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L20	Locating bearing, DE
H00	Canopy	L23	Regreasing system
H03	Condensation drain holes in end shield	N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced
H04	External grounding at housing	Q02	Anti-condensation heating for 230 V (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
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