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

Motor type : 1AV3164B **SIMOTICS GP - 160 L - IM V1 - 4p**

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

Remarks

Safe Area

-/-

Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_l/I_N	M_A/M_N T_l/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	15.00	-/-	28.50	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3
690	Y	50	15.00	-/-	16.40	1465	98.0	92.1	92.7	92.0	0.83	0.78	0.67	7.9	2.8	3.4	IE3
460	Δ	60	17.30	-/-	28.50	1765	94.0	92.4	92.5	92.0	0.83	0.79	0.69	7.9	2.7	3.3	IE2
460	Δ	60	15.00	-/-	25.00	1775	81.0	93.0	92.9	92.1	0.81	0.75	0.64	8.9	3.1	3.8	IE3
IM V1 / IM 3011			FS 160 L			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 24.6 s | 33.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	58 / 66 dB(A) 2) 3)	66 / 74 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0890 kg m²		Thermal class	F
Bearing DE | NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	20000 h	16000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	106 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L_{10mh} 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
IN LVM		SPC			

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Special design

M10	Additional rating plate, loose	R11	Terminal box rotated through 90°, cable entry from NDE

Notes:

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IN LVM		SPC			

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