

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



Motor type : 1AV4164A

SIMOTICS GP - 160 L - IM B5 - 2p

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)																	
230	Δ	50	18.50	-/-	54.00	2955	60.0	93.7	94.1	93.8	0.91	0.89	0.83	8.9	3.1	4.3	IE4
400	Y	50	18.50	-/-	31.50	2955	60.0	93.7	94.1	93.8	0.91	0.89	0.83	8.9	3.1	4.3	IE4
460	Y	60	21.30	-/-	31.50	3555	57.0	93.0	93.1	92.4	0.91	0.89	0.84	8.9	3.1	4.3	IE4
460	Y	60	18.50	-/-	27.50	3560	49.5	93.0	92.8	91.7	0.90	0.87	0.81	10.1	3.5	4.9	IE4
IM B5 / IM 3001		FS 160 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 23.3 s 29.8 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	74 / 87 dB(A) ^{2) 3)}	79 / 92 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0730 kg m ²		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⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	No		Net weight of the motor (IM B3)	112 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	No		Motor protection	(A) without (Standard)
External earthing terminal	No		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
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_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.	Link documents
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Special design

G11 Rotary pulse encoder Sendix 5020 (HTL)

Notes:

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[Link documents](#)

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