

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



Motor type : 1AV3164A

SIMOTICS GP Premium Insulation - 160 L - IM B3 - 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	$\eta^{3)}$			$\cos\varphi^{3)}$			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	
400	Δ	50	18.50	-/-	31.50	2960	60.0	92.4	92.9	92.6	0.92	0.90	0.85	9.7	2.8	3.8	IE3
690	Y	50	18.50	-/-	18.20	2960	60.0	92.4	92.9	92.6	0.92	0.90	0.85	9.7	2.8	3.8	IE3
460	Δ	60	21.30	-/-	31.50	3555	57.0	91.7	91.9	91.2	0.92	0.90	0.85	9.9	2.9	3.7	IE3
460	Δ	60	18.50	-/-	28.00	3565	49.5	91.7	91.6	90.6	0.91	0.89	0.83	11.3	3.3	4.3	IE3
IM B3 / IM 1001		FS 160 L		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN			KS C IEC60034-2-1						

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

Locked rotor time (hot / cold) : 14.9 s | 18.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 82 dB(A) ²⁾	77 / 89 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0730 kg m ²		Insulation	155(F) to 130(B)
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} , F _{Rad min} 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	109 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

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

Additional information:

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) 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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