

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



Motor type : 1AV3164B SIMOTICS XP - 160 L - IM B3 - 4p

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

Remarks

Electrical data	II 3G Ex ec IIC T3 Gc -/-
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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)																	
415	Δ	50	13.05	-/-	24.50	1465	85.1	92.4	92.4	91.3	0.80	0.74	0.61	9.1	3.2	3.9	IE3
480	Δ	60	15.05	-/-	24.00	1765	81.4	92.5	92.3	91.5	0.81	0.75	0.64	9.1	3.1	3.8	IE2
480	Δ	60	15.00	-/-	24.00	1775	81.0	93.0	92.9	92.1	0.81	0.75	0.64	8.9	3.1	3.8	IE3
IM B3 / IM 1001			FS 160 L				IP56			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +55 °C / 1,000 m									Locked rotor time (hot / cold) : 24.6 s 33.3 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	58 / 66 dB(A) ^{2) 3)}	66 / 74 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0890 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	Without		Net weight of the motor (IM B3)	106 kg
Grease nipple	-/-		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Type of bearing	Locating bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		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		

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				document status
	datasheet				released
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H07	Stainless steel screws and bolts (outside the motor)	N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced
H22	IP 56 degree of protection	S03	Special paint finish in sea air resistant C4
L20	Locating bearing, DE		

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