

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



Motor type : 1AV3164B

SIMOTICS GP Premium Insulation - 160 L - IM B3 - 4p

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)																	
400	Δ	50	15.00	-/-	27.50	1480	97.0	92.1	92.4	92.0	0.85	0.81	0.72	8.1	2.9	3.3	IE3
690	Y	50	15.00	-/-	16.00	1480	97.0	92.1	92.4	92.0	0.85	0.81	0.72	8.1	2.9	3.3	IE3
460	Δ	60	17.30	-/-	27.50	1775	93.0	92.4	92.7	92.1	0.86	0.83	0.74	8.2	2.3	3.2	IE2
460	Δ	60	15.00	-/-	24.00	1780	80.0	93.0	93.0	92.0	0.84	0.79	0.70	9.3	2.6	3.7	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) : 22.9 s 30 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 77 dB(A) ^{2) 3)}	69 / 81 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0990 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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	111 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

Notes:

I_A/I_N = locked rotor current / current nominal 1) L10mh according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411

M_K/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

M_B/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
DI MC LVM		DT Configurator			
	document type				document status
	datasheet				released
	title				document number
	1LE1083-1DB43-4AA4				
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