

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



Motor type : 1AV1164L

- 160 L - (A) IM B3 / IM1001 - p

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

Remarks

Electrical data

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	5.60	-/-	16.80	725	73.8	80.2			0.60			4.0	1.9	2.7	
400	YY	50	11.00	-/-	21.00	1445	72.7	84.4			0.90			5.1	1.5	2.2	
(A) IM B3 / IM1001			FS 160 L						IEC/EN 60034								
Environmental conditions : -20 °C - +40 °C / 1,000 m																	
Exception from EU 2019/1781 acc. to Article 2 (2) (n)																	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	/ dB(A) ³⁾	/ dB(A) ³⁾	Thermal class	F
Moment of inertia	0.0560 kg m ²		Duty type	S1 = continuous operation
Bearing DE NDE	6309 2ZC3	6309 2ZC3	Direction of rotation	bidirectional
Lubricants	Esso Unirex N3		Frame material	aluminum
Regreasing device	40000		Net weight of the motor	73 kg
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	No		Motor protection	without
External earthing terminal	No		Method of cooling	IC 411
Vibration severity grade	A (standard)			

Terminal box

Terminal box position	Terminal box - at the 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			
	1LE1011-1DL43-4AA4						
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