

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



Motor type : 1AV1166J - 160 L - (J) IM B35 / IM2001 - 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	13.00	-/-	25.50	1450	85.6	87.0			0.85			6.0	1.6	2.3	
400	YY	50	16.00	-/-	35.50	2920	52.3	84.0			0.78			7.1	1.9	2.8	
(J) IM B35 / IM2001 /			FS 160 L					IEC/EN 60034									
Environmental conditions : -20 °C - +40 °C / 1000 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⁾	Duty type	S1 = continuous operation
Moment of inertia	0.0680 kg m ²		Direction of rotation	bidirectional
Bearing DE NDE	6309 2ZC3	6309 2ZC3	Frame material	aluminum
Regreasing device	40000		Net weight of the motor	93 kg
Type of bearing	Locating bearing NDE		Coating (paint finish)	Standard paint finish C2
Condensate drainage holes	No		Color, paint shade	RAL7030
External earthing terminal	No		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Vibration severity grade	A (standard)		Method of cooling	IC 411
Thermal class	F			

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	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 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. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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