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



Motor type: 1AV3132B

SIMOTICS XP - 132 M - IM B3 - 4p

Client order no.

Item-No.

Order no.

Consignment no.

Project

Remarks

II 3G Ex ec IIC T3 Gc

Electrical data -/-

U	Δ/Υ	f	Р	Р	I	n	М		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	7.50	-/-	15.00	1465	49.0	90.4	90.7	90.4	0.80	0.74	0.63	8.5	3.0	3.8	IE3
690	Υ	50	7.50	-/-	8.70	1465	49.0	90.4	90.7	90.4	0.80	0.74	0.63	8.5	3.0	3.8	IE3
460	Δ	60	8.60	-/-	14.90	1765	46.5	89.5	90.0	89.4	0.81	0.76	0.65	8.8	3.0	3.8	IE2
460	Δ	60	7.50	-/-	13.00	1770	40.5	91.7	91.6	90.6	0.79	0.73	0.61	9.8	3.4	4.3	IE3
IM B3 / IN	M 1001		FS 132 M			IP55		IEC/EN	60034		IEC, DIN, IS	O, VDE, EN	ı				

Environmental conditions : $-20 \,^{\circ}\text{C}$ - $+40 \,^{\circ}\text{C}$ / 1000 m Locked rotor time (hot / cold) : 14.8 s | 20.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72 / 80 dB(A) ^{2) 3)}	68 / 76 dB(A) ^{2) 3)}	Vibration severity grade	A		
Moment of inertia	0.0334	ł kg m²	Thermal class	F		
Bearing DE NDE	6208 2Z C3	6208 2Z C3	Duty type	S 1		
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		out	Net weight of the motor (IM B3)	61 kg		
Grease nipple	-)	<i>I-</i>	Coating (paint finish)	Special paint finish, resistant to salt- laden air C4		
Type of bearing	Preloaded	bearing DE	Color, paint shade	RAL7030		
Condensate drainage holes	With	nout	Motor protection	(A) without (Standard)		
External earthing terminal	With (st	andard)	Method of cooling	IC411 - self ventilated, surface cooled		

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm ²
Material of terminal box	Aluminium	Cable diameter from to	11 mm - 21 mm
Type of terminal box	TB1 H00	Cable entry	2xM32x1,5
Contact screw thread	M4		

 $I_A/I_N =$ locked rotor current / current nominal $M_A/M_N =$ locked rotor torque / torque nominal $M_K/M_N =$ break down torque / nominal torque

1) L_{10mh} 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

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