**Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS** SIMOTICS XP - 132 M - IM V5 - 4p Motor type: 1AV3132B Client order no. Offer no. Item-No. Order no. Consignment no. Project Remarks II 2D Ex tb IIIC T 120°C Db **Electrical data** η 3) Δ/Υ Р Р cosφ <sup>3)</sup> U f ī М  $I_A/I_N$  $M_A/M_N$ M<sub>K</sub>/M<sub>N</sub> IE-CL n [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) IE3 400 Δ 50 7.50 15.00 1465 49.0 90.4 90.7 90.4 0.80 0.74 0.63 3.0 3.8 690 50 7.50 -/-8.70 90.7 0.74 3.8 IE3 1465 49.0 90.4 90.4 0.80 0.63 8.5 3.0 Δ 460 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 Δ IE3 460 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 IM V5 / IM 1011 FS 132 M IP65 IEC/EN 60034 IEC, DIN, ISO, VDE, EN 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) <sup>2) 3)</sup>	Vibration severity grade	Α		
Moment of inertia	0.0334 kg m²		Thermal class	F		
Bearing DE   NDE	6208 2Z C3 6208 2Z C3		Duty type	S1		
bearing lifetime			Direction of rotation	bidirectional		
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	20000 h	16000 h	Frame material	aluminum		
Regreasing device	Without		Net weight of the motor (IM B3)	61 kg		
Grease nipple	- -		Coating (paint finish)	Standard paint finish C2		
Type of bearing	Preloaded 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 position	top	Max. cross-sectional area	6 mm <sup>2</sup>
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		

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

Terminal box

1) L<sub>10mh</sub> 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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