## Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS SIMOTICS GP - 90 S - IM B5 - 4p Motor type : 1AV2090B Offer no. Client order no. Item-No. Order no. Consignment no. Project Remarks **Electrical data** Safe Area η <sup>3)</sup> U Δ/Υ f Р Р 1 М cosφ 3) $I_A/I_N$ $M_A/M_N$ $M_K/M_N$ IE-CL n [V] [Hz] [kW] [A] [1/min] [Nm] $T_B/T_N$ [hp] 4/4 3/4 2/4 3/4 $I_I/I_N$ $T_I/T_N$ 4/4 214 13 kg IM B5 / IM 3001 FS 90 S IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1,000 m Locked rotor time (hot / cold): 19.3 s | 25.7 s Mechanical data Sound level (SPL / SWL) at 50Hz|60Hz 56 / 68 dB(A) <sup>2)</sup> 58 / 70 dB(A) 2) External earthing terminal No Moment of inertia 0.0028 kg m<sup>2</sup> Vibration severity grade Α Bearing DE | NDE 6205 2Z C3 155(F) to 130(B) 6004 2Z C3 Insulation bearing lifetime Duty type S1 $L_{10mh}\,F_{Rad\,min}$ for coupling operation 50[60Hz $^{1)}$ Lubricants 40000 h 32000 h Direction of rotation bidirectional Unirex N3 Frame material aluminum Regreasing device Coating (paint finish) Standard paint finish C2 No RAL7030 Grease nipple Color, paint shade Type of bearing Preloaded bearing DE Motor protection (A) without (Standard) Condensate drainage holes No Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position qot Max. cross-sectional area 1.5 mm<sup>2</sup> Cable diameter from ... to ... Aluminium Material of terminal box 9 mm - 17 mm Type of terminal box TB1 E00 1xM25x1,5 Cable entry Contact screw thread M4 Cable gland 1 plug Notes: 1) L10mh according to DIN ISO 281 10/2010 I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal 3) Value is valid only for DOL operation with motor design IC411 $M_A/M_N = locked rotor torque / torque nominal$ $M_K/M_N$ = break down torque / nominal torque Technical data are subject to change! There may be discrepancies responsible dep. technical reference created by approved by between calculated and rating plate values. DI MC LVM DT Configurator document type document status customer datasheet released SIFMFNS document number 1LE1001-0EB09-0FA4-Z M11+M1Y+R11 creation date rev. language Page © Siemens AG 2021 2021-08-26 19:00

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Motor type : 1AV2090B			SIMOTICS GP - 90	SIMOTICS GP - 90 S - IM B5 - 4p						
Special o	design									
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M1Y					Terrinia box i	otatea tiire	ragii 50 , cable cittiy iid	JIII NDE		
IVIII	Non-standard winding	<b>j:</b>								
Notes:										
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