

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS SIMOTICS GP - 112 M - IM B14 - 4p Motor type : 1AV4112B Offer no. Client order no. Item-No Order no. Consignment no. Project Remarks Safe Area Electrical data -/cosφ <sup>3)</sup> U Δ/Υ f Р Р ī М η 3)  $I_A/I_N$ M<sub>A</sub>/M<sub>N</sub>  $M_K/M_N$ IE-CL n [V] [Hz] [kW] [hp] [A] [1/min] [Nm] 4/4 3/4 4/4 2/4  $I_I/I_N$  $T_I/T_N$  $T_B/T_N$ 2/4 3/4 **DOL duty (S1)** - 155(F) to 130(B) 230 Δ 50 4.00 13.60 1465 26.0 91.1 91.6 91.0 0.81 0.75 0.63 8.3 3.1 4.3 IE4 400 50 4.00 -/-7.80 1465 0.75 0.63 4.3 26.0 91.1 91.6 91.0 0.81 8.3 3.1 IE4 Υ 460 60 4.55 -/-7.60 1765 24.5 91.0 91.3 90.6 0.76 0.65 8.5 4.3 IE4 0.82 3.0 Υ -/-IE4 460 60 3.70 6.50 1770 20.0 91.0 90.8 89.5 0.78 0.71 0.58 10.0 3.7 5.4 IM B14 / IM 3601 FS 112 M UKCA IEC/EN 60034 IEC, DIN, ISO, VDE, EN Environmental conditions: -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold): 20.5 s | 26.1 s Mechanical data 65 / 77 dB(A) 2) 3) Sound level (SPL / SWL) at 50Hz|60Hz 68 / 80 dB(A) 2) 3) Vibration severity grade Α  $0.0200 \text{ kg m}^2$ Thermal class Moment of inertia F Bearing DE | NDE **S**1 6206 2Z C3 6206 2Z C3 Duty type 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 Net weight of the motor (IM B3) 46 kg Grease nipple Coating (paint finish) Standard paint finish C2 Preloaded bearing DE Color, paint shade RAL7030 Type of bearing Condensate drainage holes Without Motor protection (A) without (Standard) External earthing terminal Without Method of cooling IC411 - self ventilated, surface cooled Terminal box Terminal box position left Max. cross-sectional area  $4 \text{ mm}^2$ Material of terminal box Aluminium Cable diameter from ... to ... 11 mm - 21 mm Type of terminal box TB1 F00 2xM32x1,5-1xM16x1,5 Cable entry Cable gland Contact screw thread Μ4 3 plugs 1) L<sub>10mh</sub> according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411 I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal 2) at rated power / at full load M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal M<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	discrepancies betwee	bject to change! There may be n calculated and rating plate	Link docume	ents	
	Document type				Document status			
SIEMENS	Technical data sheet				Released			
	Document title				Document number			
	1LE1004-1BB22-2KA6-Z				TDS-240607-085051			
Restricted	F01+F17			Revision	Creation date	Language	Page	
© Innomotics 2024				AA	2024-06-07	en	1/2	

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



Motor type : 1AV4112B		SIMOTICS GI	P - 112 M - IM B14 - 4	łр				
Special design								
F01 Mounting of holding	brake F17 Brake supply voltage 180 V DC							
Additional information:								
Brake:								
Description:	BFK458-14		Current:			A		
Voltage:	DC 180 V		Moment of inerti	ia:		kgm²		
Transmittal, reproduction, dissemination an		vell as utilization of its contents and Il rights created by patent grant or re				ion are prohibited. Offenders v	vill be held liable	for payment of
			T					
Responsible department	discrept			discrepan	nnical data are subject to change! There may be repancies between calculated and rating plate			
IN LVM	SPC Created automatically				Document o	tatus		
SIEMENS	Technical data shee	Document type Technical data sheet			Document status Released			
	Document title				Document number			
						507-085051		海绵底
Restricted	F01+F17			ļ	Revision	Creation date	Language	Page
© Innomotics 2024					AA	2024-06-07	en	2/2