

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

Motor type : 1AV3130B

SIMOTICS GP - 132 S - IM B5 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N I_f/I_N	M_A/M_N T_f/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	5.50	-/-	10.80	1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
690	Y	50	5.50	-/-	6.30	1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
460	Δ	60	6.30	-/-	10.40	1770	34.0	91.7	92.0	91.3	0.83	0.79	0.69	8.7	2.7	3.7	IE3
460	Δ	60	5.50	-/-	9.30	1775	29.5	91.7	91.6	90.5	0.81	0.76	0.65	10.0	3.1	4.2	IE3
IM B5 / IM 3001		FS 132 S		IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 22.8 s 29.1 s							

Mechanical data


Sound level (SPL / SWL) at 50Hz 60Hz	64 / 76 dB(A) ^{2) 3)}	68 / 80 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0340 kg m ²		Thermal class	F
Bearing DE NDE	6208 2Z C3	6208 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} , $F_{Rad min}$ 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	54 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	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without		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	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

Notes:

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) L10mh 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

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
	document type datasheet	document status released		document number	
	title 1LE1003-1CB03-4FB4-Z F01+F12	rev. 943	creation date 2023-03-31		
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Special design

F01 Mounting of holding brake F12 Brake supply voltage 400 V AC, 50/60 Hz

Additional information:

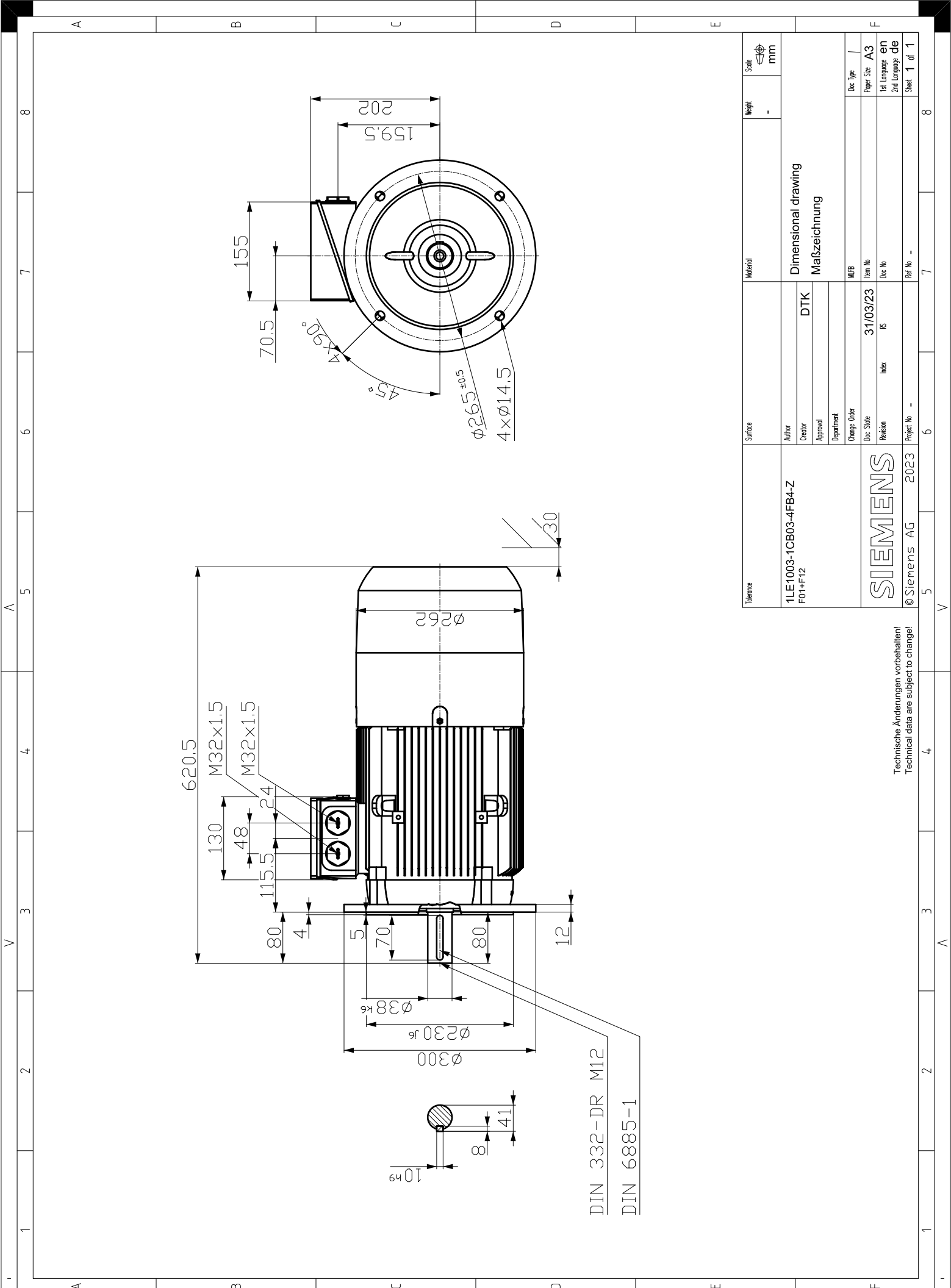
Brake:

Description: BFK458-16 Current: .31 A
 Voltage: AC 400 V Moment of inertia: 0.001500 kgm²

Notes:

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Reference	Surface	Material	Weight	Scale
1LE1003-1CB03-4FB4-Z F01+F12	Author Creator Approval Department Change Order	DTK	-	mm
Dimensional drawing Maßzeichnung				
SIEMENS	Doc. State Revision	Item No Index	Doc. Type Paper Size	A3
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	Project No	Ref. No	Sheet	1 of 1

Technische Änderungen vorbehalten!
 Technical data are subject to change!