

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

**Motor type:** FS: 449TS - 2p - 300 hp -

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

**Electrical data** Class I, Div 1 Gr. C&D; Class II, Div1, Gr. F&G

U [V]	$\Delta/Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T <sub>A</sub> /T <sub>N</sub> LRT [%]	T <sub>k</sub> /T <sub>N</sub> BDT [%]
						4/4	3/4	1/2	0	LRC	4/4	3/4	2/4	4/4	3/4	2/4			
460		60	300.00	-/-	3,570	325.00	244.30	171.50	68.00	2200.0	95.8	95.8	95.2	91.0	90.0	86.0	441.0	100	200

Frame Type: 449TS	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.:Insulation class F	Motor Prot.:(G) Thermostats, Klixon type, normally closed	NEMA Des.: B	S.F.: 1
Mtr. WT:2,300		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65

**Mechanical data**

Sound level (SPL / SWL) at 60 Hz	91.0 dB(A) / 103.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz	250 500 1000 2000 4000 8000 Hz	Safe Stall Time Hot	12 s
SPL@3	dB(A)	Safe Stall Time Cold	13 s
Moment of inertia	39.1 Lb-ft <sup>2</sup>	Frame material	cast iron
Ext Load Inertia Capability:	246.0 Lb ft <sup>2</sup>	Color, paint shade	
<b>Bearings</b>		Coating (paint finish)	
Bearing DE   NDE	6316 Z C3 S0   6316 Z C3 S0	<b>Ventilation Type</b>	
Bearing_Type	Ball Bearing   Ball Bearing	Method of cooling	TEFC
AFBMA:	80BC03JP30   80BC03JP30	Direction of rotation	Bidirectional
<b>Grease</b>		Fan Material	Polypropylen ESD
Capacity	7.5 oz   7.5 oz	VFD	CT: n/a VT: 20:1
Grease Type:	Exxon Mobile EM	Space heaters	without
		Brake:	-/-

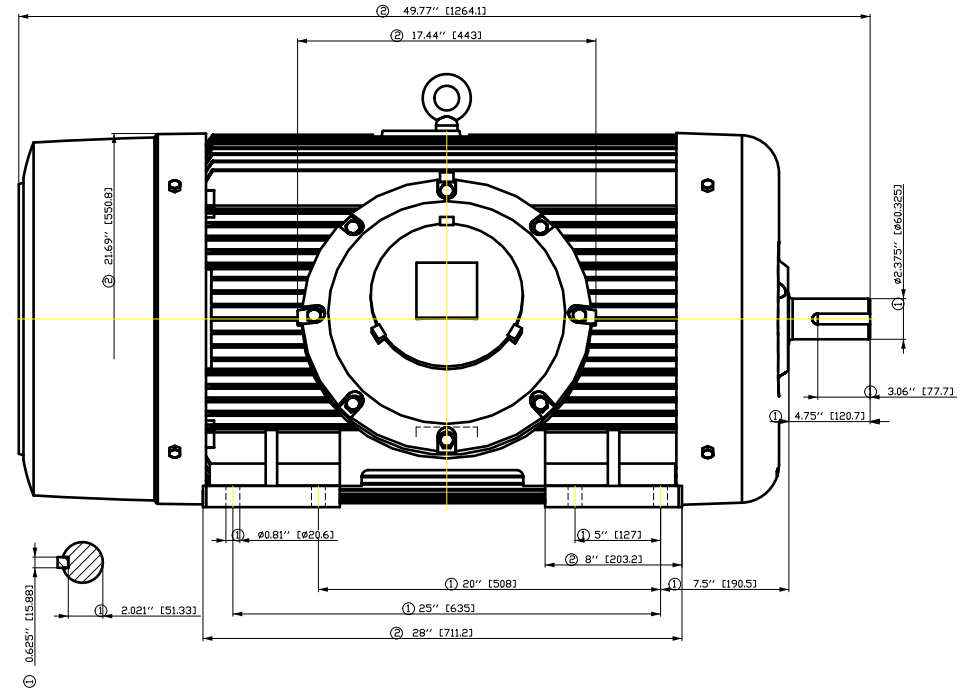
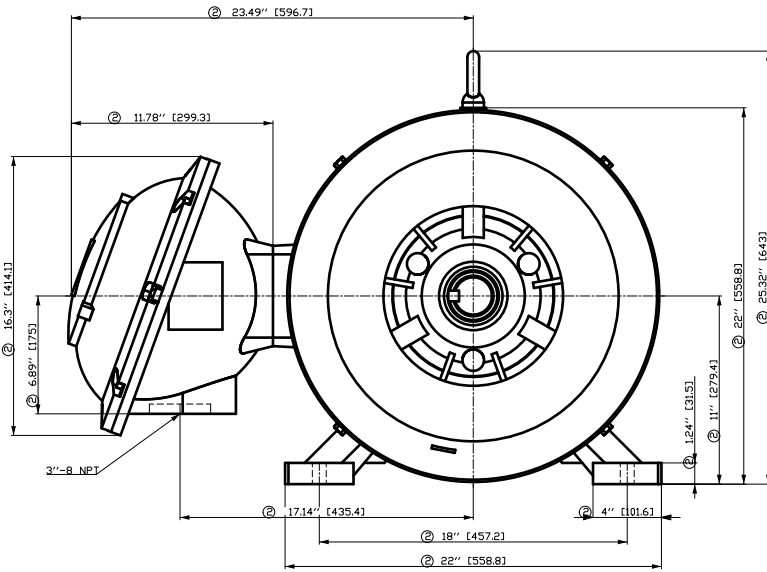
**Terminal box**

Lead Wire Connection	6 LEAD - DELTA	Terminal box position	(3) Mounting - F-1
Voltage	L1 L1 L1 Connected together	Material of terminal box	
----	----	Cable entry	-/-
----	T1 T2 T3		



**Notes:**  
 I<sub>L</sub>/I<sub>N</sub> = locked rotor current / current nominal  
 M<sub>L</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
 M<sub>d</sub>/M<sub>N</sub> = break down torque / nominal torque  
 3) Value is valid only for DOL operation with motor design IC411  
 2) at rated power / at full load

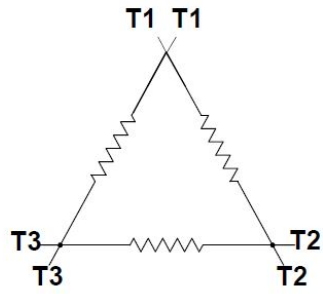
responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>			
	document type datasheet	document status released		customer			
	title 1MB2121-4DA61-2AG3	document number					
© Siemens AG 2022	rev. 01	creation date 2022-04-09 02:08	language en	Page 1/1			



- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
FT ÖGF-C-E ÖÖE F-EÖÖH E	Author Creator Approval Department Change Order	ÖS T aë : ^æ@` } *	E	{ {
<b>SIEMENS</b>	Doc. State	I EEEG	Item No	Paper Size
	Revision	Index RS	Doc No	1st Language 2nd Language
© Siemens AG 2018	Project No	E	Ref No	E
			Doc Type	Sheet
				F of F

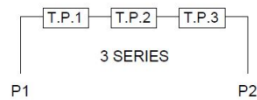
Main terminal diagram




6 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

Motor protection

THERMOSTATS

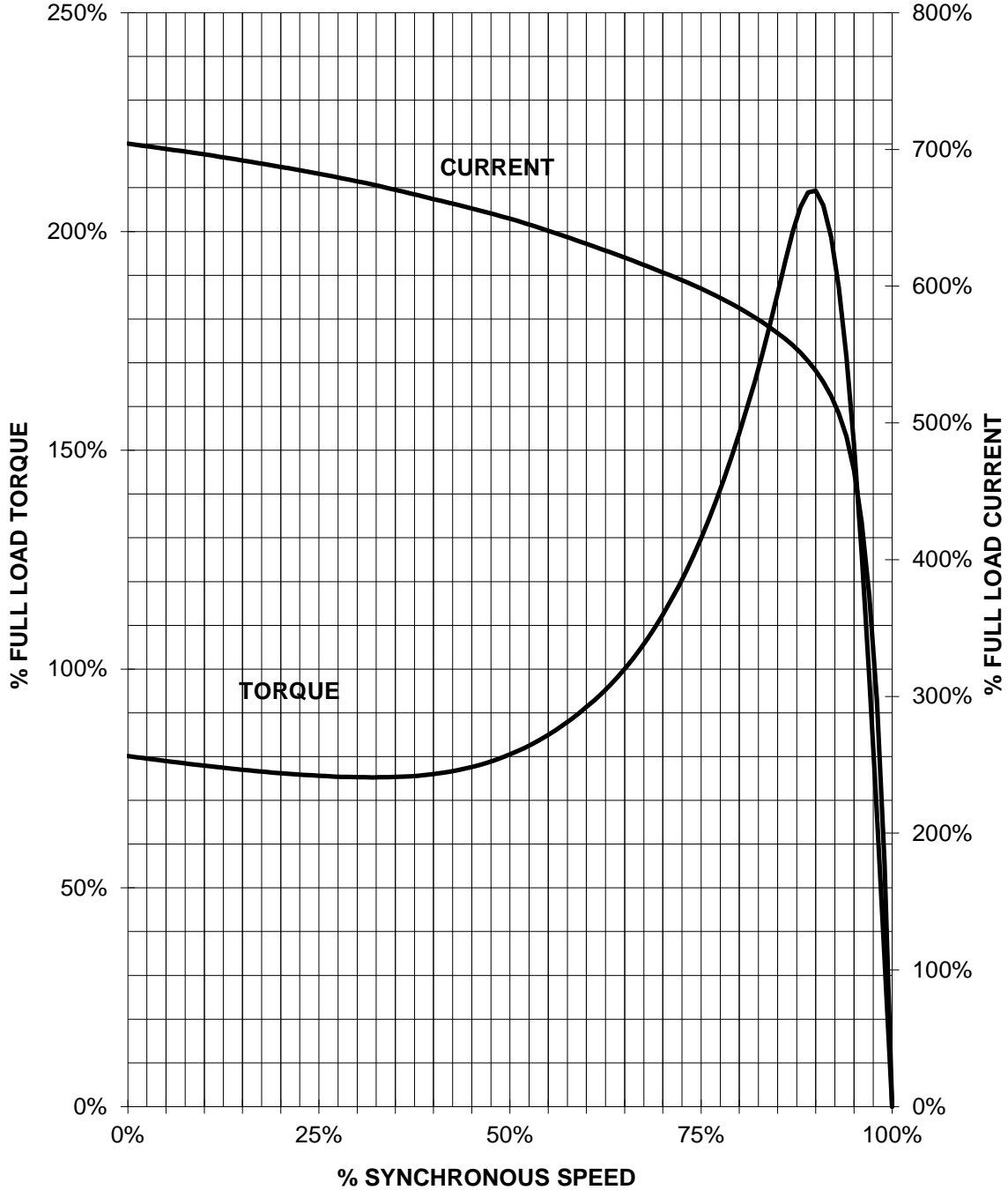


responsible dep. DI MC LVM	technical reference	created by	approved by	Project	
	document type Wiring Diagram		document status free		customer
	title 1MB2121-4DA61-2AG3		document number		
© Siemens AG 2019		rev. 01	creation date 12/03/2019	language en	Page 1/1

# SIEMENS INDUSTRY, INC.

HP 300    VOLTS <600    RPM 3600    TYPE XP100  
HZ 60    PHASE 3    FRAME 449TS    NEMA B

## TORQUE & CURRENT VS. SPEED



CUSTOMER: \_\_\_\_\_ ORDER#: \_\_\_\_\_