

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

Motor type: SD100 FS: 445TS - 4p - 150 hp -

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

Remarks

Electrical data

Class I Division 2 Gr. A, B, C or D

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T _A /T _N LRT [%]	T _k /T _N BDT [%]
						4/4	3/4	1/2	0			4/4	3/4	2/4	4/4	3/4	2/4			
		60	150.00	110.00	1,785							95.8	96.0	95.7	86.0	84.0	78.0	441.0	150	200
Frame Type: 445TS			Type of constr.: (E) Foot mounted - C-Face							Ins. Cl.:Standard Class H Insulation		Motor Prot.:(G) Klixon Thermostats, 1 Per Phase, Normally Closed					NEMA Des.: B		S.F.: 1.15	
Mtr. WT:1,753										Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m					kVA: G		I.P.: 55	

Mechanical data

Sound level (SPL / SWL) at 60 Hz				73.0 dB(A) / 84.0 dB(A)				Thickener		Polyurea					
Octave Band Center Frequencies Hertz								Safe Stall Time Hot				20 s			
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold				30 s			
SPL@3	64.0	70.0	67.0	66.0	59.0	49.0	dB(A)	Frame material				cast iron			
Moment of inertia					44.9 Lb-ft²			Color, paint shade		Standard Paint - RAL7030					
Ext Load Inertia Capability:					640.0 Lb ft²			Coating (paint finish)		Standard Alkyed + Epoxy (C2)					
Bearings												Ventilation Type			
Bearing DE NDE				6316 Z C3 S0			6316 Z C3 S0		Method of cooling		TEFC				
Bearing_Type				Ball Bearing			Ball Bearing		Direction of rotation		Bidirectional				
AFBMA:				80BC03JP30			80BC03JP30		Fan Material		Polypropylen ESD				
Grease												VFD		CT: 4:1 VT: 20:1	
Capacity				7.50 oz			7.50 oz		Space heaters		without				
Grease Type:					Exxon Mobile EM			Brake:		without					

Terminal box

Lead Wire Connection					Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS				
Voltage	L1	L1	L1	Connected together	Material of terminal box	Cast Iron				
					Cable entry	3" NPT				

Notes:

I _L /I _N = locked rotor current / current nominal	3) Value is valid only for DOL operation with motor design IC411
M _L /M _N = locked rotor torque / torque nominal	2) at rated power / at full load
M _k /M _N = break down torque / nominal torque	

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between published and actual data values			
SIEMENS	document type datasheet	document status released		customer			
	title 1LE2321-4DB29-OEG3-Z	document number					
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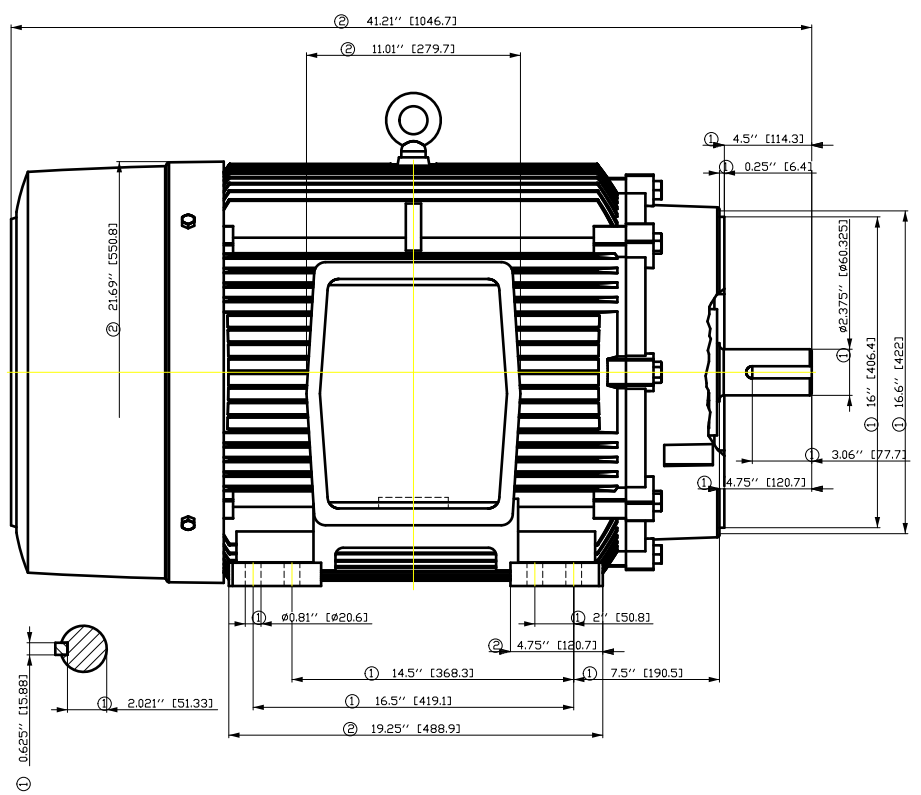
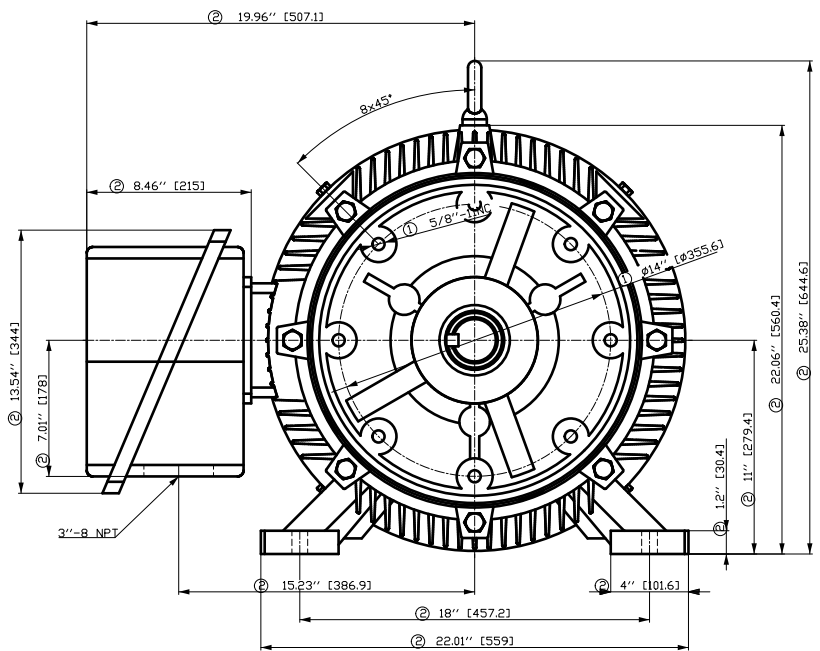
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Special design

B09	Export packing sea freight - Siemens standard	M1Y	Special voltage (200-460V)
C00	Insulation - Class H	Y80	Rerate / derate altitude and/or ambient:
F20	Routine test report with vibration test	Y82	Auxiliary nameplate with customer data :

Notes:

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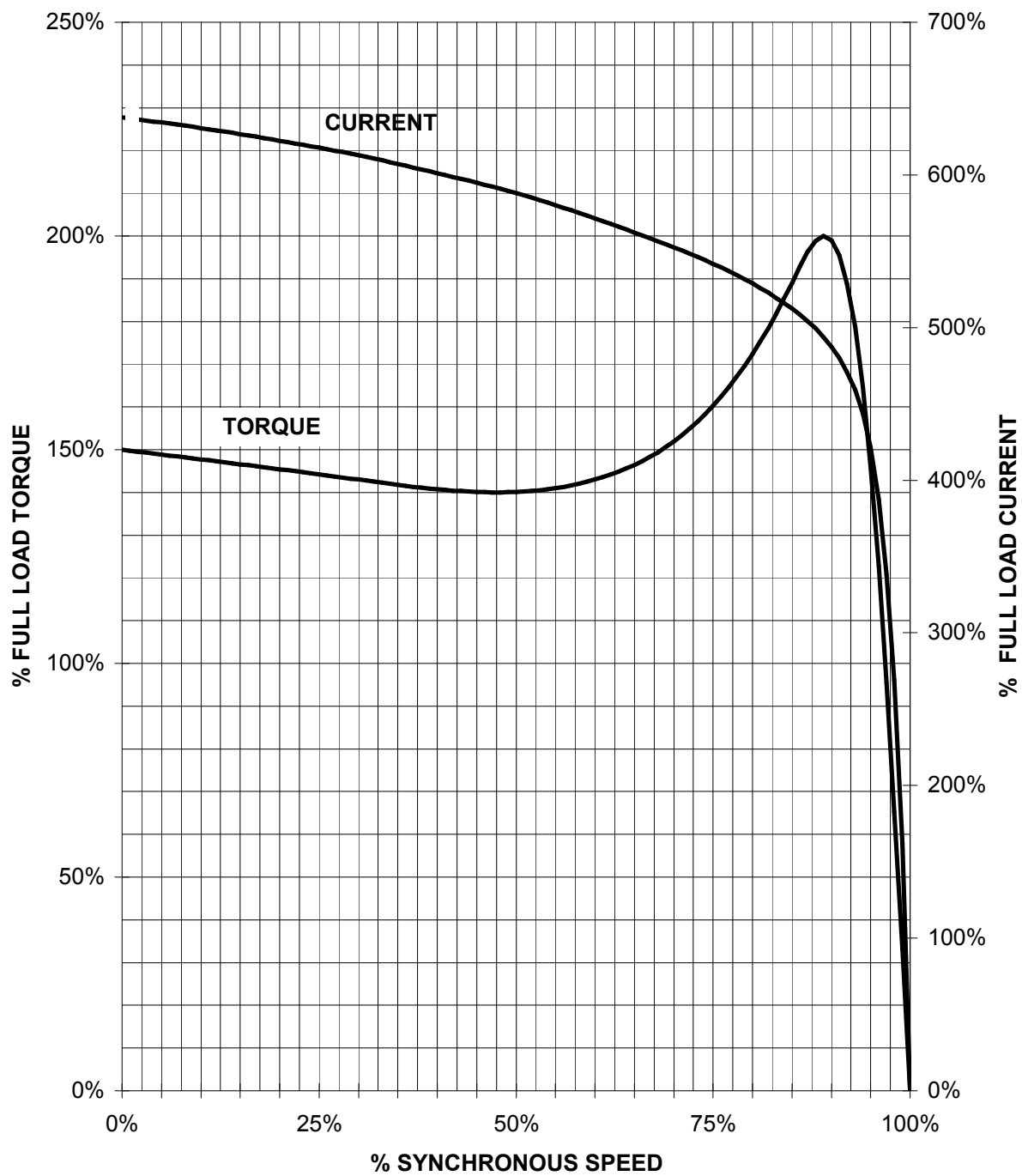
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
1LE2321-4DB29-0EG3-Z B09+C00+F20+M1Y+Y80+Y82	Author Creator Approval Department Change Order	Dimensional drawing Maßzeichnung		
SIEMENS	Doc. Date	4/22/21	Item No	Paper Size
	Revision	Index	Doc No	1st Language
	Project No	-	Ref No	2nd Language
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				1 of 1

SIEMENS INDUSTRY, INC.

HP 150 VOLTS < 600V RPM 1800 TYPE SD100
HZ 60 PHASE 3 FRAME 445TS NEMA B

TORQUE & CURRENT VS. SPEED

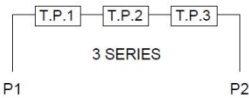


CUSTOMER: _____ ORDER#: _____

Main terminal diagram

Motor protection

THERMOSTATS



responsible dep.
DI MC LVM

technical reference

created by

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Project

SIEMENS

document type
Wiring Diagram

document status
free

customer

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