SIEMENS

Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)

MLFB-Ordering data: **1LE2321-4FC11-2AA3**

Motor type: **SD100 - NEMA Premium Efficiency**

Client order no.:
Order no.:
Offer no.:
Remarks:

Item no.:
Consignment no.:
Project:

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	1/2	Pwr. Factor Load [%] 4/4	3/4	1/2	Torque [lb-ft]	T_A/T_N LRT [%]	T_K/T_N BDT [%]
460	Δ	60	300.00	225.00	1,185	340.00	257.90	178.40	119.00	2400.0	95.8	96.1	96.0	86.0	85.0	82.0	1329.0	105	200

Frame Type S449LS	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.: F	Motor Prot.: (A) Without Protection	NEMA Des.: A	S.F.: 1.15
Mtr WT: 3,240 lbs	Mounting: (3) F-1, Standard Floor Mount, T. Box LHS	Temp. Rise Cl.: B	Amb. Temp.: +40 to -20 °C @1000 m	kVA: H	IP55

Mechanical data

WK2

Rotor Moment of Inertia:	106	Lb-ft²
Ext Load Inertia Capability:	3240.0	Lb-ft²

Safe Stall Time

Hot:	26.0	s
Cold:	33.0	s

Typical Noise Data

A-weighted Sound

Sound Pressure:	87.0	dB(A)
Sound Power:	75.0	dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	65.0	71.0	71.0	65.0	62.0	53.0	dB(A)

Bearings

	DE	NDE
Bearing size:	NU 320	6315 ZZ C3 S0
Bearing Type:	Roller Bearing	Ball Bearing
AFBMA:	100RU03M0	75BC03JPP30

Grease

Capacity:	14.50 oz	7.50 oz
Type:	Exxon Mobile EM	
Thickener:	Polyurea	

Frame

Frame material:	cast iron
Coating (paint finish):	Standard Paint
Color, paint shade:	RAL 7030

Terminal box

Terminal box position:	(3) F-1, Standard Floor Mount, T. Box LHS

Lead Wire Connection

Description: 6 LEAD - DELTA

Voltage	L1	L2	L3	Connected together	
-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-
-- -- --	T1	T2	T3	-- -- --	Δ

Ventilation Type

Type of Cooling:	TEFC
Fan Material:	Bronze
Fan Rotation:	Bidirectional

Additional information

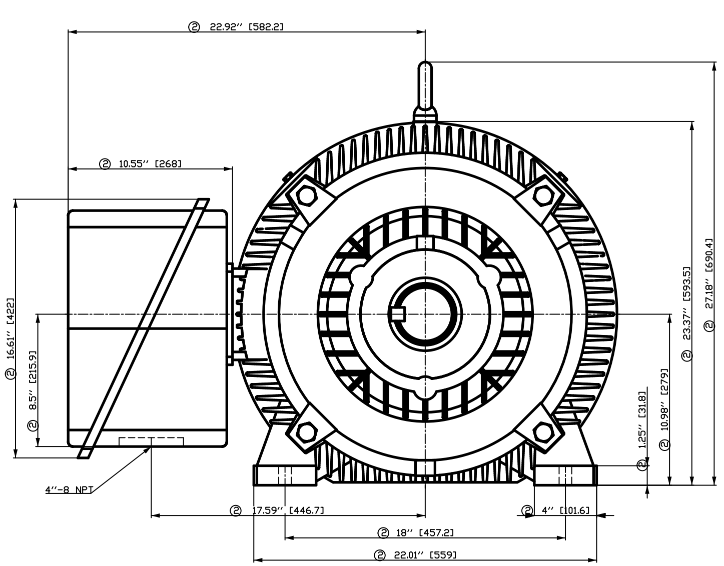
VFD Operation: CT: 4:1 VT: 20:1

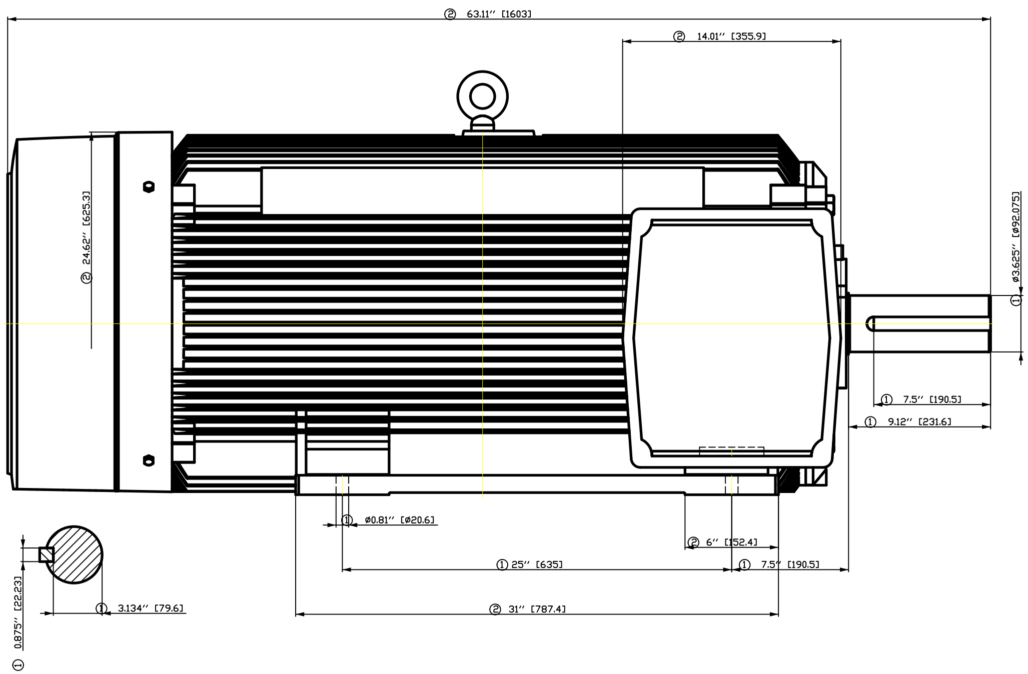
Area: classification: Class I Division 2 Gr. A, B, C or D

Notes

I_A/I_N = locked rotor current / current nominal
T_K/T_N = break down torque / nominal torque
T_A/T_N = locked rotor torque / torque nominal
1) Value is valid only for DOL operation with motor design IC411

Generated:
2020-07-06 19:36





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.

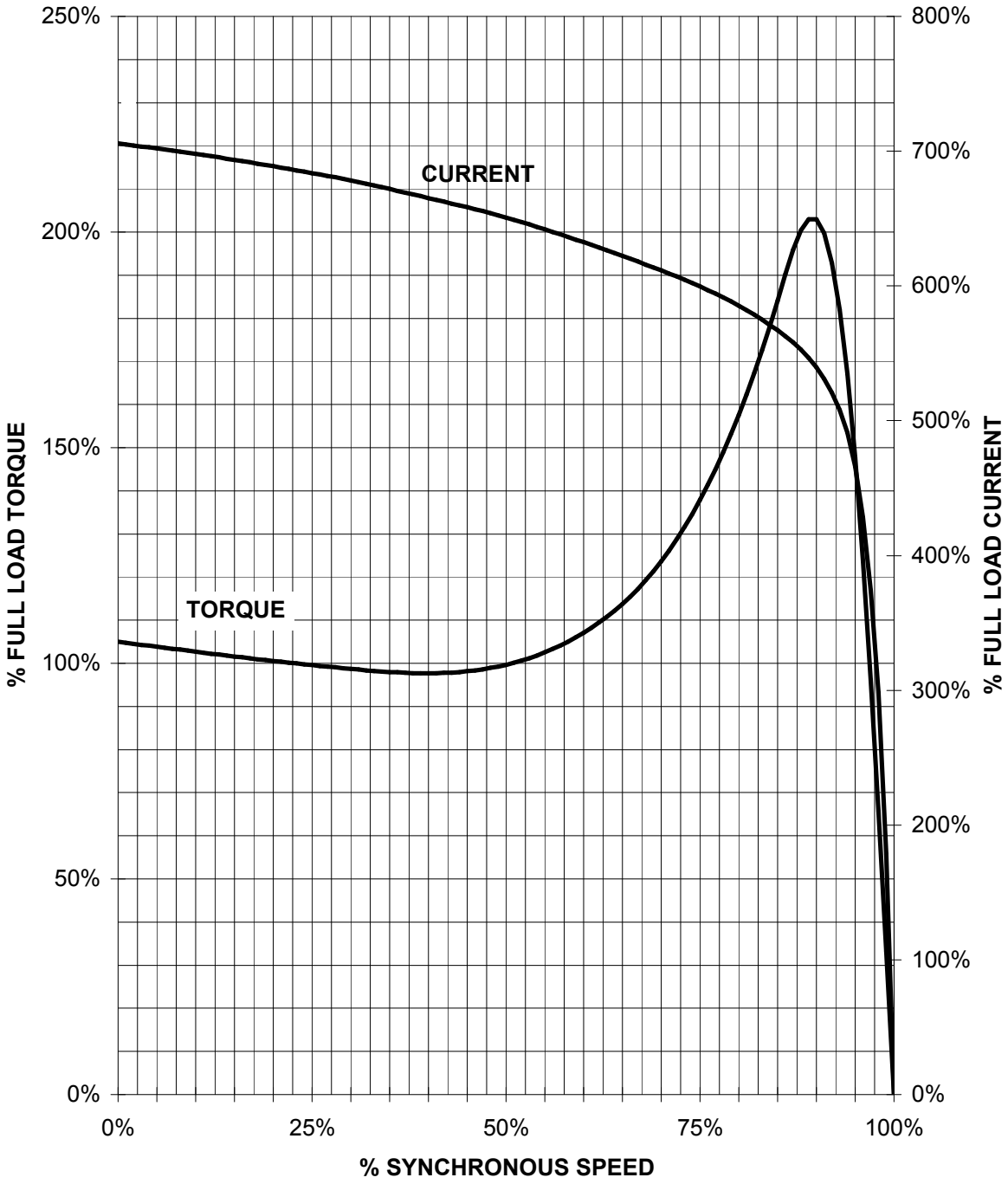
③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
			-	mm
1LE2321-4FC11-2AA3 -	Author	Dimensional drawing MaÇzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc Type	
SIEMENS	Doc State 7/6/20	Item No	Paper Size A3	
	Revision Index RS	Doc No	1st Language en 2nd Language de	
© Siemens AG 2018	Project No -	Ref No -	Sheet 1 of 1	

SIEMENS INDUSTRY, INC.

HP	300	VOLTS	< 600V	RPM	1200	TYPE	SD100
HZ	60	PHASE	3	FRAME	S449LS	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

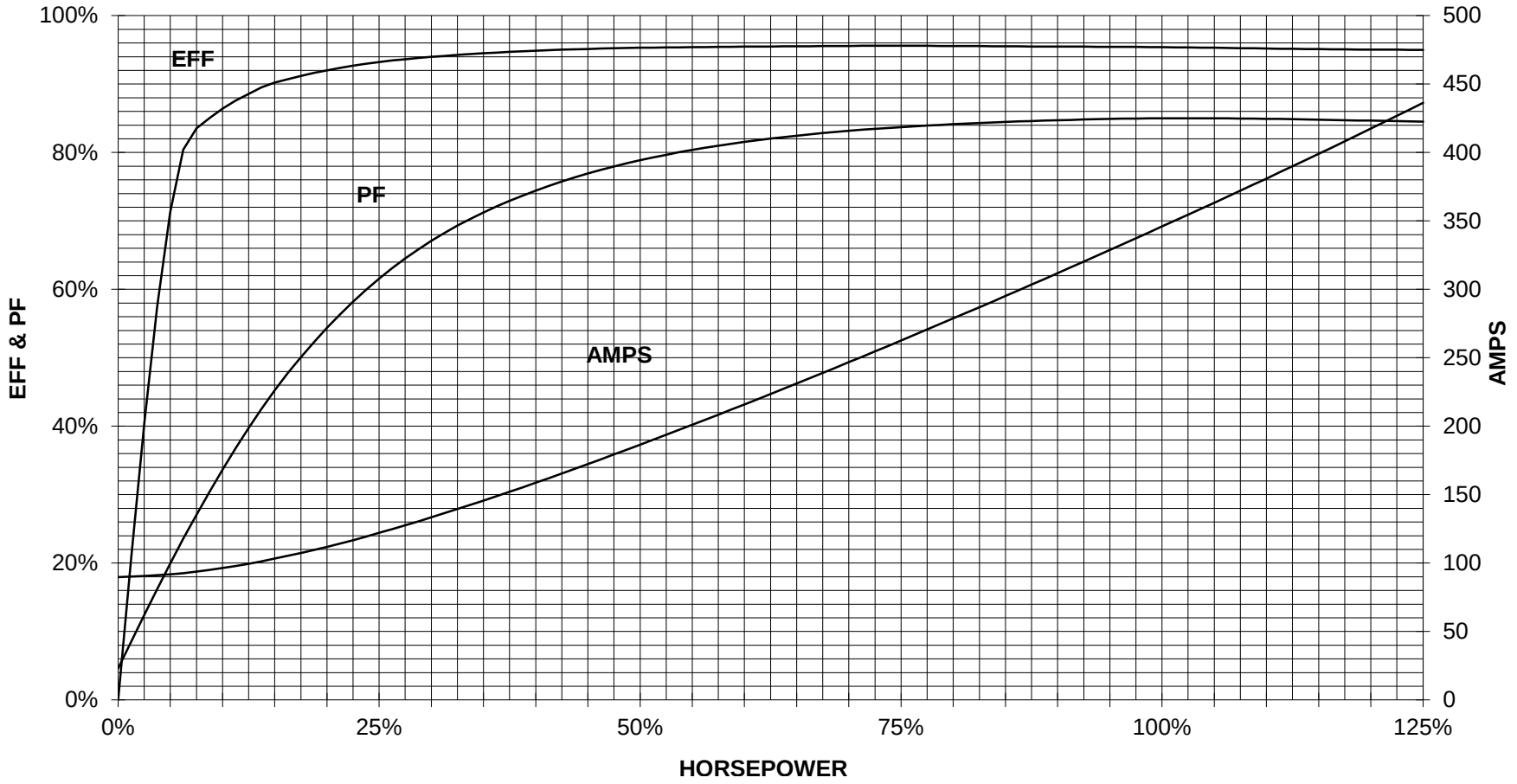
PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1

300 HP 1200 RPM S449LS FRAME 460 VOLTS 3 PHASE NEMA DESIGN A

SIEMENS INDUSTRY, INC.

PERFORMANCE CURVE

SD100

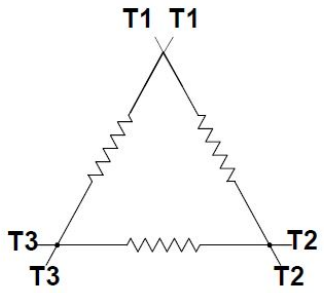


CUSTOMER_____ ORDER #_____ PO #_____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.

REV. 1

Main terminal diagram



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

responsible dep.	technical reference	created by	approved by	project	
DI MC LVM					
SIEMENS	document type: Wiring Diagram		document status: free	customer	
	title: 1LE2321-4FC11-2AA3		document number		
		rev.: 01	creation date: 12/03/2019	language: en/en	Page: 1/1