

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

Motor type: SD100 FS: B444T - 4p - 125 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				
460	Δ	60	125.00	90.00	1,785	143.00	109.30	78.60	45.00	908.0	95.4	95.6	95.4	86.0	84.0	78.0	368.0	160	200	
Frame Type: B444T			Type of constr.: (A) Foot mounted - End shield							Ins. Cl.:Standard Class F Insulation		Motor Prot.:(A) Without Protection					NEMA Des.: B		S.F.: 1.15	
Mtr. WT:1,601										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				75.0 dB(A) / 86.0 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				25 s					
SPL@3		64.0		73.0		68.0		66.0		61.0		51.0		dB(A)		Frame material				cast iron			
Moment of inertia								39.2 Lb-ft²								Color, paint shade				Standard Paint - RAL7030			
Ext Load Inertia Capability:								542.0 Lb ft²								Coating (paint finish)				Standard Alkyed + Epoxy (C2)			
Bearings																Ventilation Type							
Bearing DE NDE				6318 Z C3 S0				6316 Z C3 S0				Method of cooling								TEFC			
Bearing_Type				Ball Bearing				Ball Bearing				Direction of rotation								Bidirectional			
AFBMA:				90BC03JP30				80BC03JP30				Fan Material								Polypropylen ESD			
Grease																VFD				CT: 4:1 VT: 20:1			
Capacity				14.50 oz				7.50 oz				Space heaters								without			
Grease Type:								Exxon Mobile EM								Brake:				without			

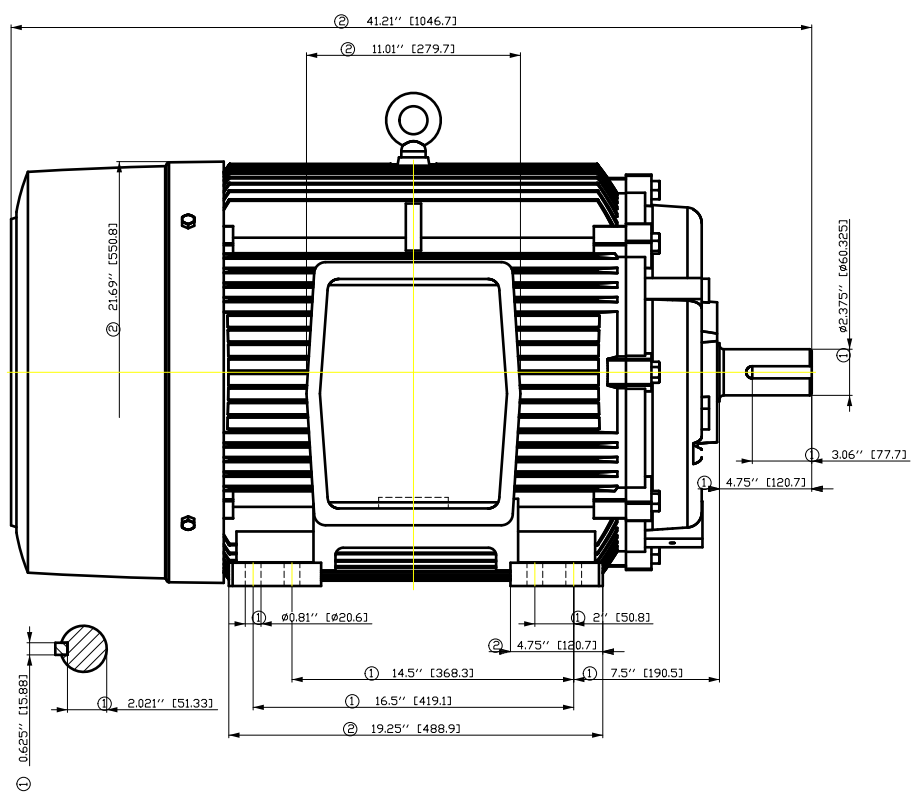
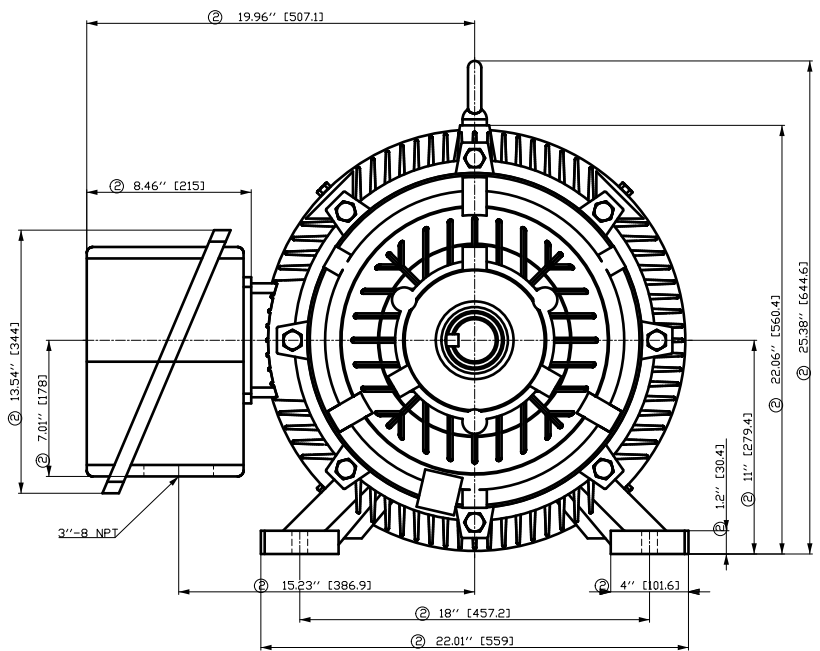
Terminal box

Lead Wire Connection					6 LEAD - DELTA					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				
----	T1	T2	T3	----															

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 _b /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 calculated and actual data before			
	document type datasheet		document status released		customer			
	title 1LE2321-4EB11-2AA3		document number					
© Siemens AG 2021			rev. 01	creation date 2021-04-21 19:33	language en	Page 1/1		



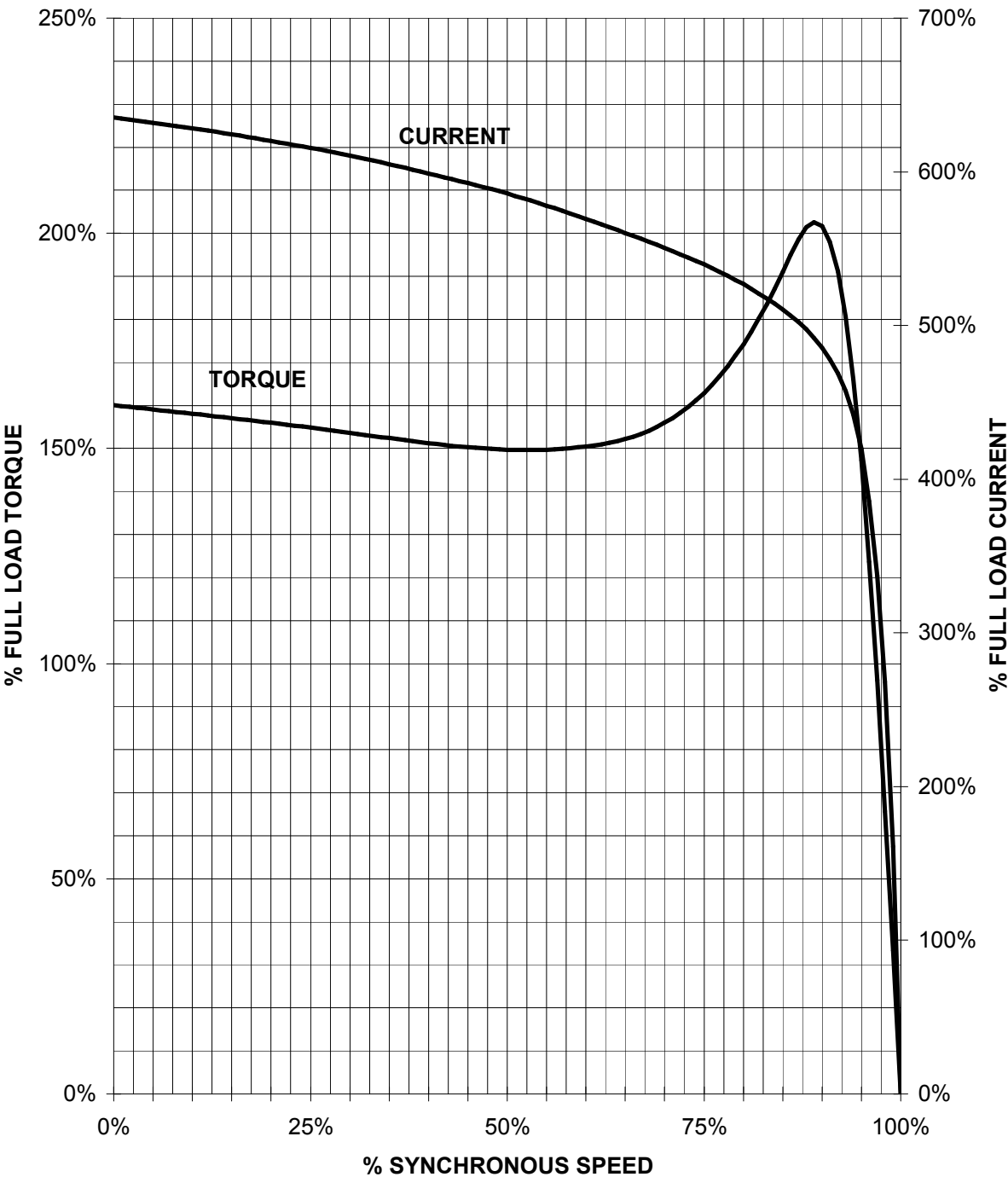
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
1LE2321-4EB11-2AA3	Author	Dimensional drawing Maßzeichnung		
-	Creator			
	Approval			
	Department			
	Change Order	MLFB	Doc Type	
SIEMENS	Doc. Date	4/21/21	Item No	Paper Size
	Revision	Index	Doc No	1st Language
				2nd Language
	Project No	-	Ref No	Sheet
© Siemens AG 2018				1 of 1

SIEMENS INDUSTRY, INC.

HP 125 VOLTS < 600V RPM 1800 TYPE SD100
HZ 60 PHASE 3 FRAME B444T NEMA B

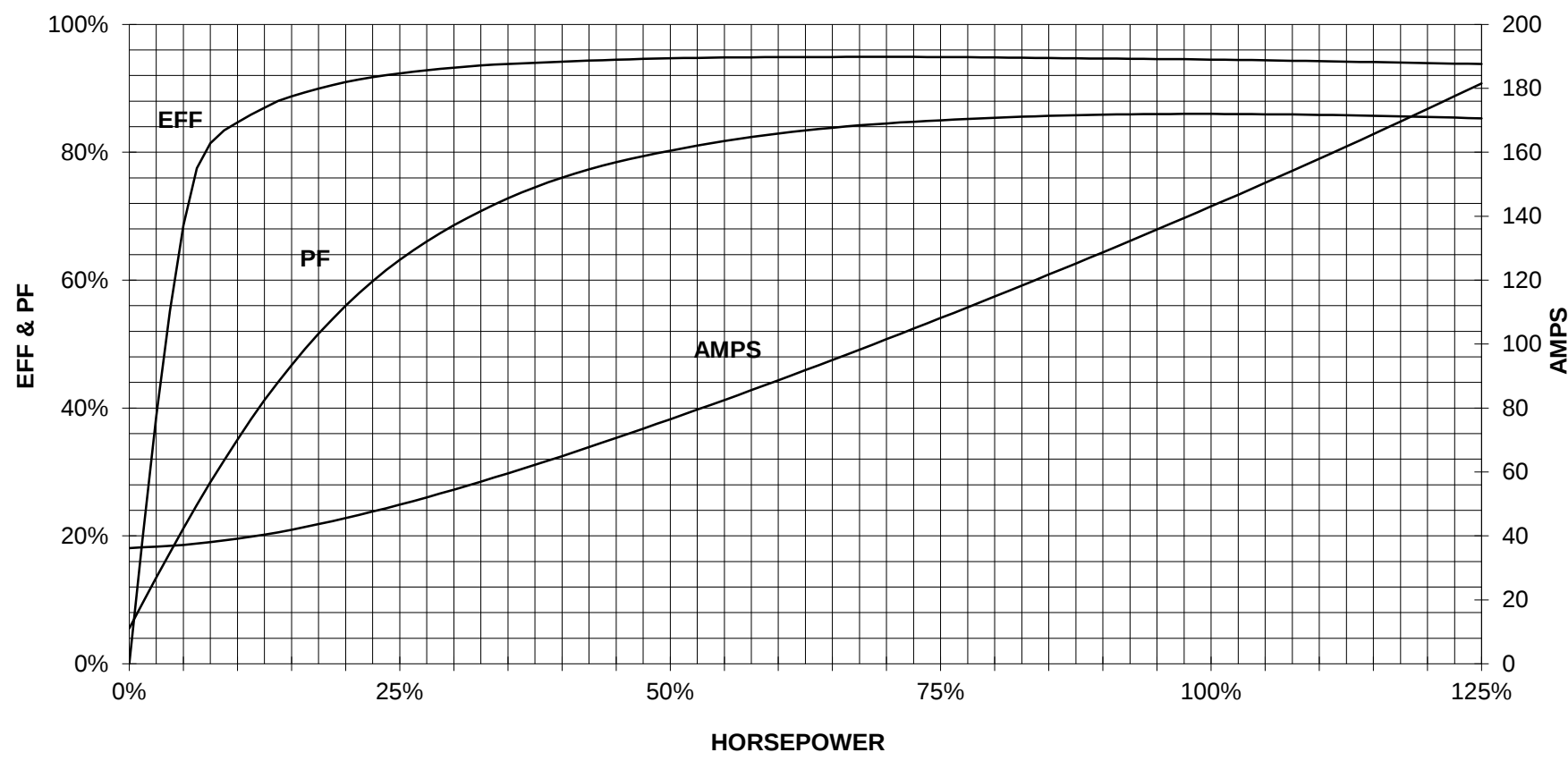
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

125 HP 1800 RPM B444T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

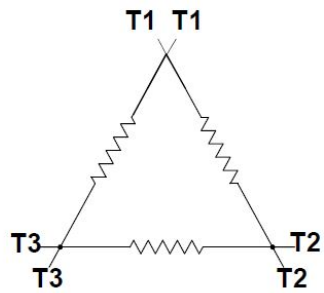
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100



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.
DI MC LVM

technical reference

created by

approved by

Project

SIEMENS

document type
Wiring Diagram

title
1LE2321-4EB11-2AA3

document status
free

document number

customer