

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

Motor type: SD100 FS: 447T - 6p - 150 hp -

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

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

[illegible]

Frame Type: 447T	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:2,006		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		64.0 dB(A) / 75.0 dB(A)					
Octave Band Center Frequencies Hertz							
	250	500	1000	2000	4000	8000	Hz
SPL@3	55.0	59.0	60.0	57.0	50.0	42.0	dB(A)
Moment of inertia				68.5 Lb-ft²			
Ext Load Inertia Capability:				172.0 Lb ft²			
Bearings							
Bearing DE NDE				NU 320		6316 Z C3 S0	
Bearing_Type				Roller Bearing		Ball Bearing	
AFBMA:				100RU03M0		80BC03JP30	
Grease							
Capacity				14.50 oz		7.50 oz	
Grease Type:				Exxon Mobile EM			
Thickener				Polyurea			
Safe Stall Time Hot				28 s			
Safe Stall Time Cold				43 s			
Frame material				cast iron			
Color, paint shade				Standard Paint - RAL7030			
Coating (paint finish)				Standard Alkyed + Epoxy (C2)			
Ventilation Type							
Method of cooling				TEFC			
Direction of rotation				Bidirectional			
Fan Material				Polypropylen ESD			
VFD				CT: 4:1 VT: 20:1			
Space heaters				without			
Brake:				without			

Terminal box

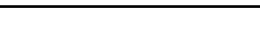
Lead Wire Connection		6 LEAD - DELTA			Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Cast Iron
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----	T1	T2	T3	----		

Notes:

I_{lr}/I_{ln} = locked rotor current / current nominal	3) Value is valid only for DOL operation with motor design IC411
M_{lr}/M_{ln} = locked rotor torque / torque nominal	2) at rated power / at full load
M_{br}/M_{ln} = 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</i>
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	document type	document status		customer	
	datasheet	released			
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	1LE2321-4CC31-2AA3-Z B09	rev. 01 creation date 2021-04-21 21:04			

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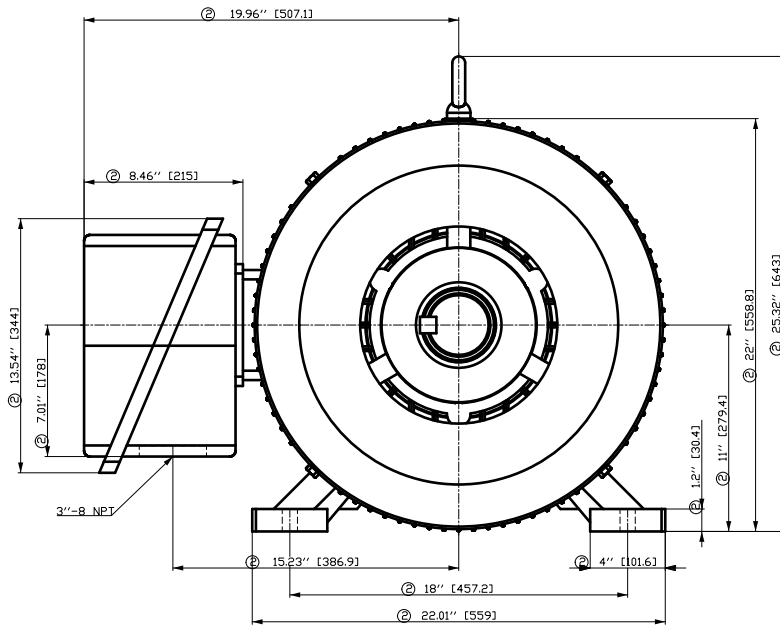
Special design

B09	Export packing sea freight - Siemens standard
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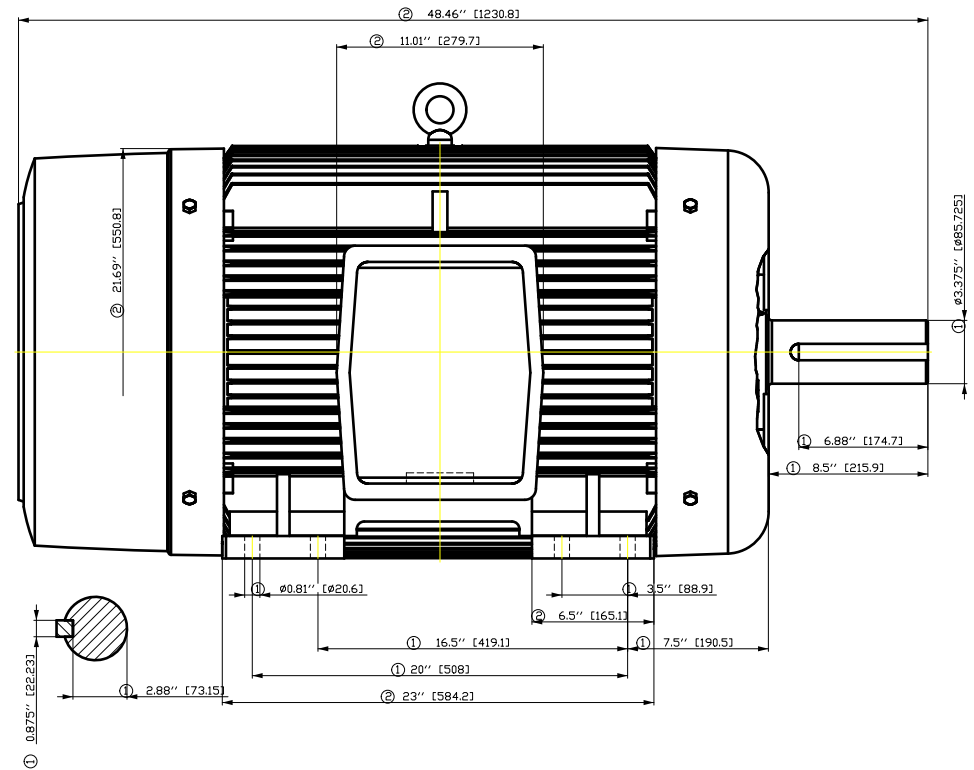
Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between selected and actual data before			
	document type datasheet			document status released		customer		
	title 1LE2321-4CC31-2AA3-Z			document number				
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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.

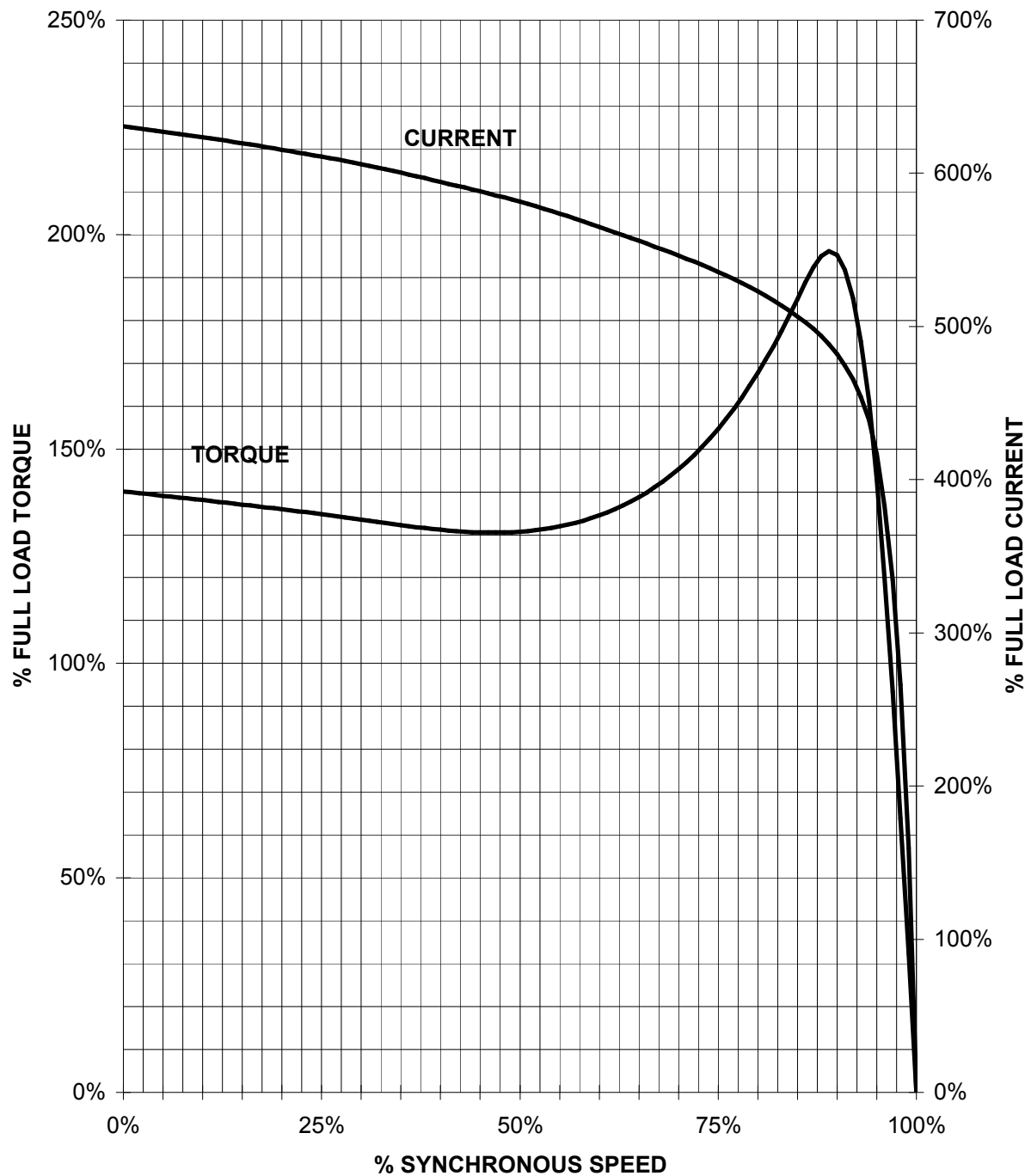


Tolerance	Surface	Material	Weight -	Scale  mm
1LE2321-4CC31-2AA3-Z B09	Author	Dimensional drawing Maßzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc Type	
SIEMENS	Doc State 4/21/21	Item No	Paper Size	A3
	Revision Index RS	Doc No	1st Language en	2nd Language de
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SIEMENS INDUSTRY, INC.

HP 150 VOLTS < 600V RPM 1200 TYPE SD100
HZ 60 PHASE 3 FRAME 447T NEMA B

TORQUE & CURRENT VS. SPEED

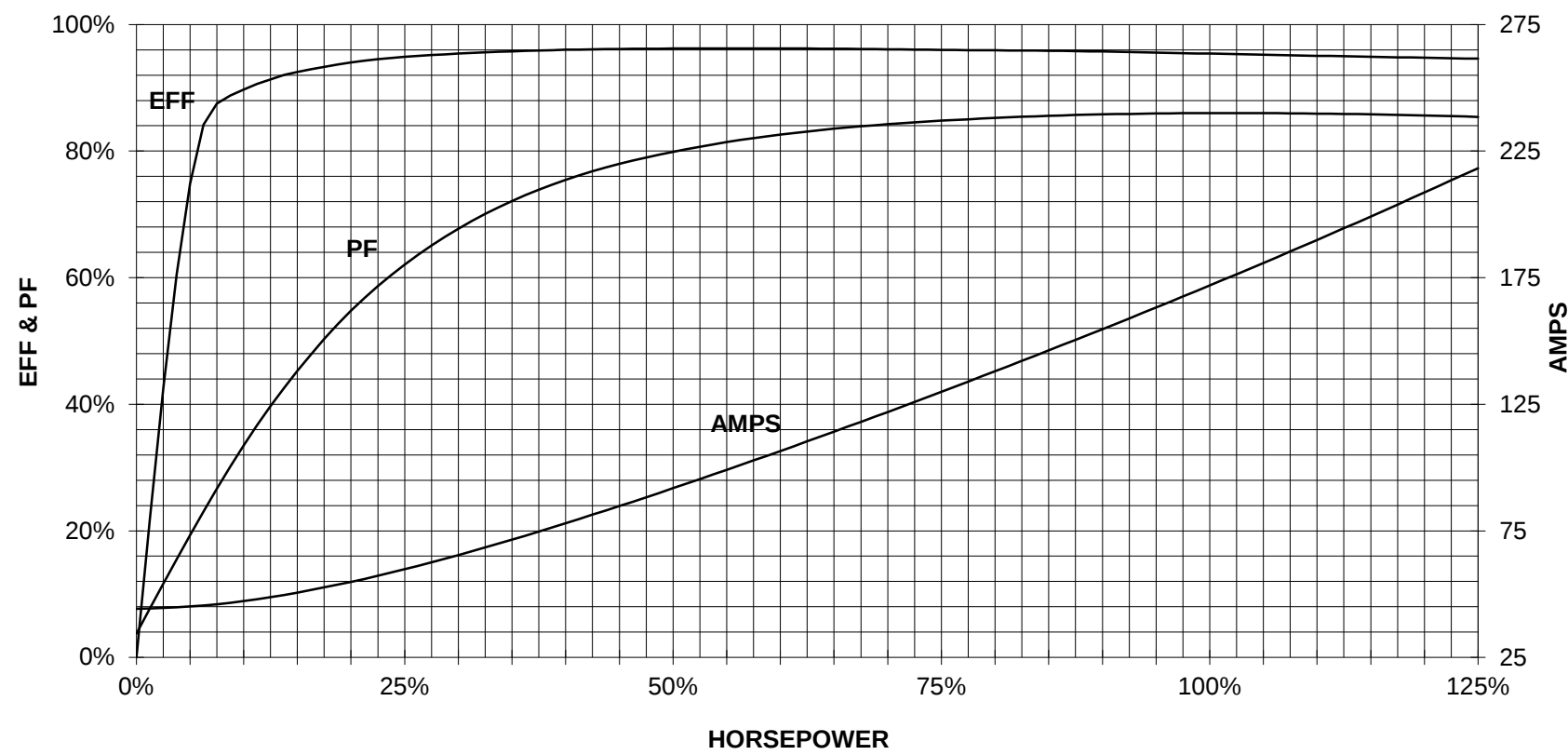


CUSTOMER: _____ ORDER#: _____

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

150 HP 1200 RPM 447T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

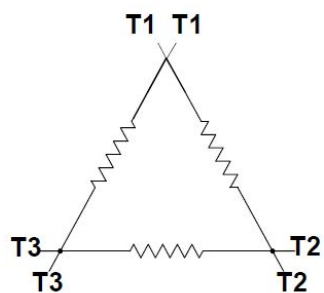
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100



CUSTOMER _____ ORDER # _____ PO # _____

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

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				
	document type Wiring Diagram			document status free		customer		
	title 1LE2321-4CC31-2AA3-Z			document number				
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