

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

**Motor type:** SD200 NEMA Premium Next Generation **FS: 447TS - 2p - 200 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 T3 Class II**  
**Division 2 Gr. F or G T3C**

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			
575	$\Delta$	60	200.00	149.20	3,570	180	140.00	103.30	60.00	1160.0	96.2	96.2	95.8	86.5	83.4	75.7	294.0	160	280

Frame Type: 447TS	Type of constr.: (A) Foot Mounted Horizontal (IMB3)	Ins. Cl.: Standard Class H Insulation	Motor Prot.: A: No Winding Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT: 1,767		Temp. Rise Cl.: B	Amb. Temp.: + 40 to °C @1000 m	kVA: G	IP 55

**Mechanical data**

Sound level (SPL / SWL) at 60 Hz	84.0 dB(A) / 95.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	30 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	20 s
SPL@3	77.0	80.0	77.0	75.0	68.0	63.0	dB(A)	Frame material	Cast iron
Moment of inertia	27.0 Lb-ft <sup>2</sup>							Color, paint shade	RAL 7030
Ext Load Inertia Capability:	172.0 Lb ft <sup>2</sup>							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
<b>Bearings</b>								<b>Ventilation Type</b>	
Bearing DE   NDE	6315 Z C3 S0			6315 Z C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bi-Directional	
AFBMA:	75BC03JP3			75BC03JP3			Fan Material	Polypropylene ESD	
<b>Grease</b>								VFD	CT: 4:1 VT: 20:1
Capacity	15 oz			15 oz			Space heaters	without	
Grease Type:	Exxon Mobil EM							Brake:	-/-

**Terminal box**

Lead Wire Connection	3 TERMINAL - Connection DELTA					Terminal box position	(1) LHS Mount - View From DE (F-1) - DE or Center of Motor
Voltage	L1	L1	L1	Connected together		Material of terminal box	Cast Iron
---	---	---	---	---	-	Cable entry	(1) 3" NPT
RUN	T1	T2	T3	---	$\Delta$		

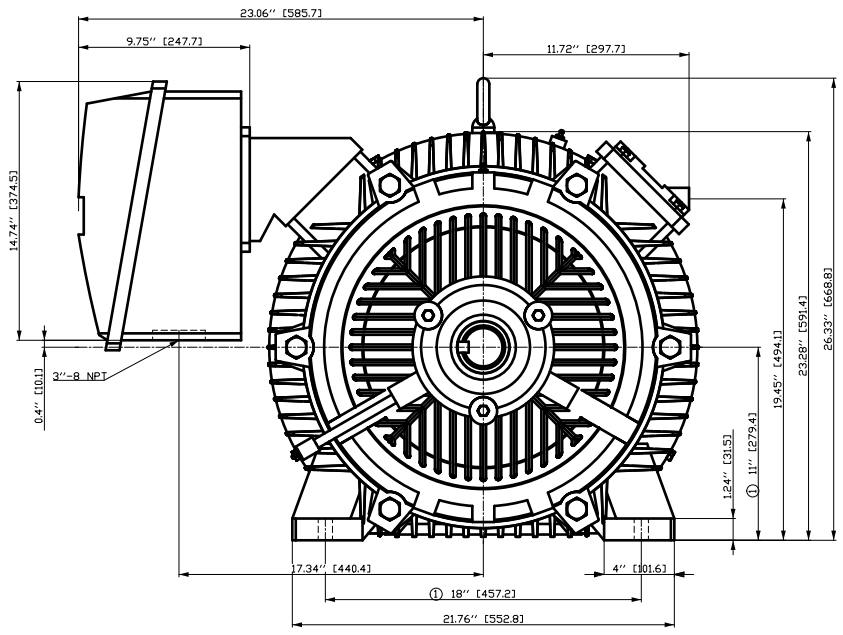
Notes:

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>k</sub>/M<sub>N</sub> = break down torque / nominal torque

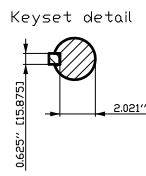
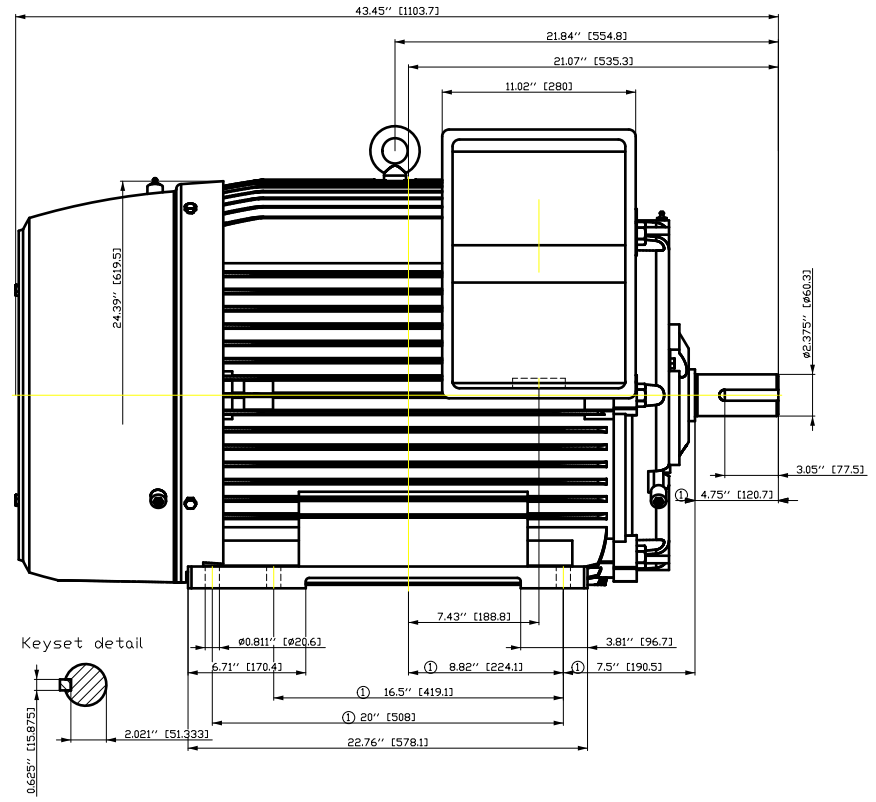
3) Value is valid only for DOL operation with motor design IC411  
2) at rated power / at full load

responsible dep.	technical reference	created by	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
	title	document number		
	1LE6321-4GA11-3AA1			
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		01	2022-04-09 01:08	en 1/1



① Tolerances according to NEMA std.  
 All dimensions corresponding to assemblies and castings shall have a tolerance as per ISD 8062-3 DCTG 12.

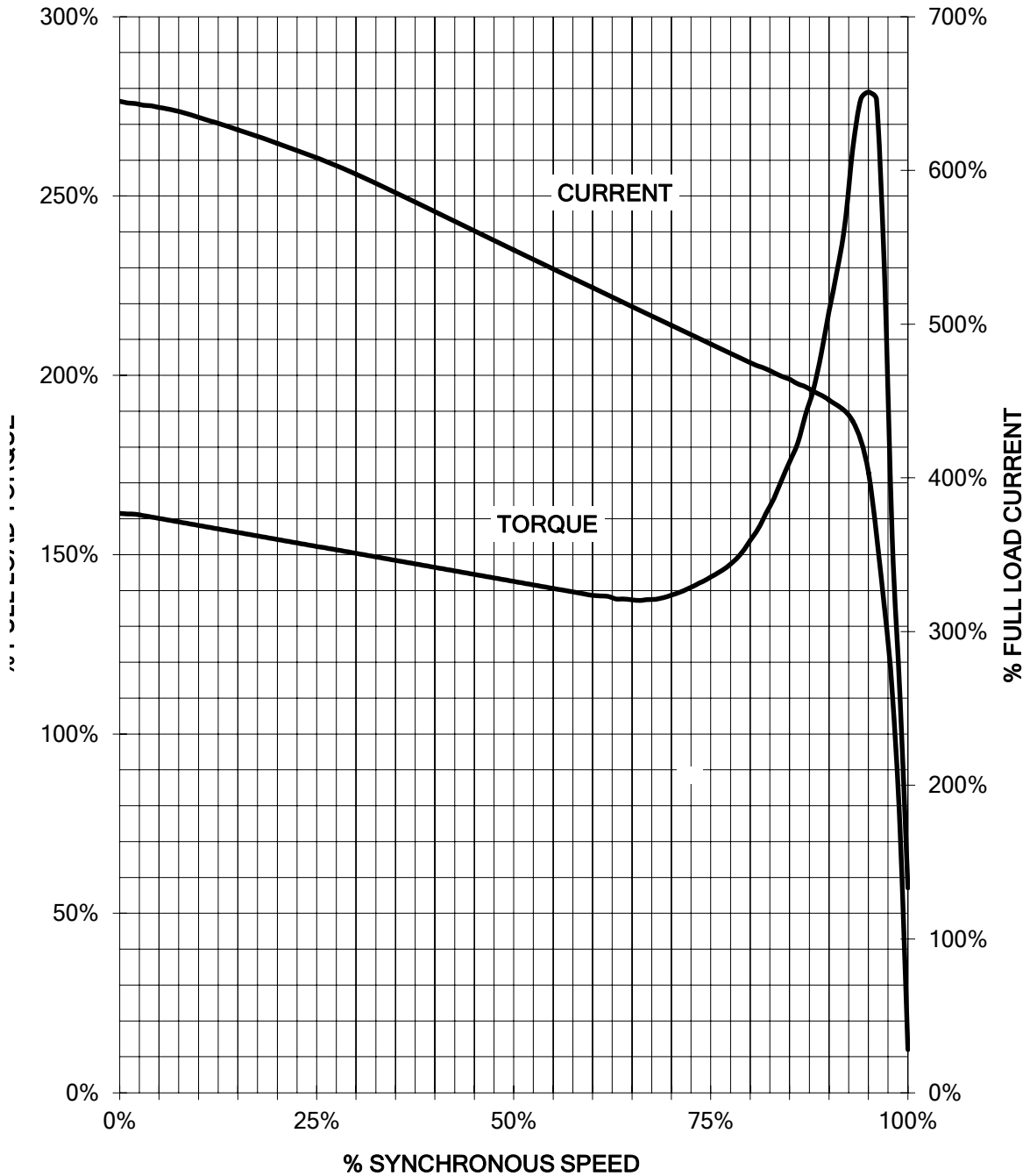


Tolerance	Surface	Material	Weight	Scale
F50 I HGF B ÖCFF B ÖCFF	Author	ÖV S	ÖV S	ÖV S
E	Creator	T a s : ^ B @ } *		
	Approval			
	Department			
	Change Order	MFB	Doc Type	/
<b>SIEMENS</b>	Doc. State	I E B B G	Item No	Paper Size
© Siemens AG 2018	Revision	Index	Doc No	1st Language
	Project No	E	Ref No	E
				2nd Language
				Sheet

# SIEMENS INDUSTRY, INC.

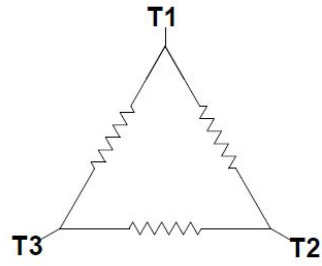
HP 200 VOLTS 460 RPM 3570 TYPE SD200  
HZ 60 PHASE 3 FRAME 447T NEMA B

## TORQUE & CURRENT VS. SPEED



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

Main terminal diagram

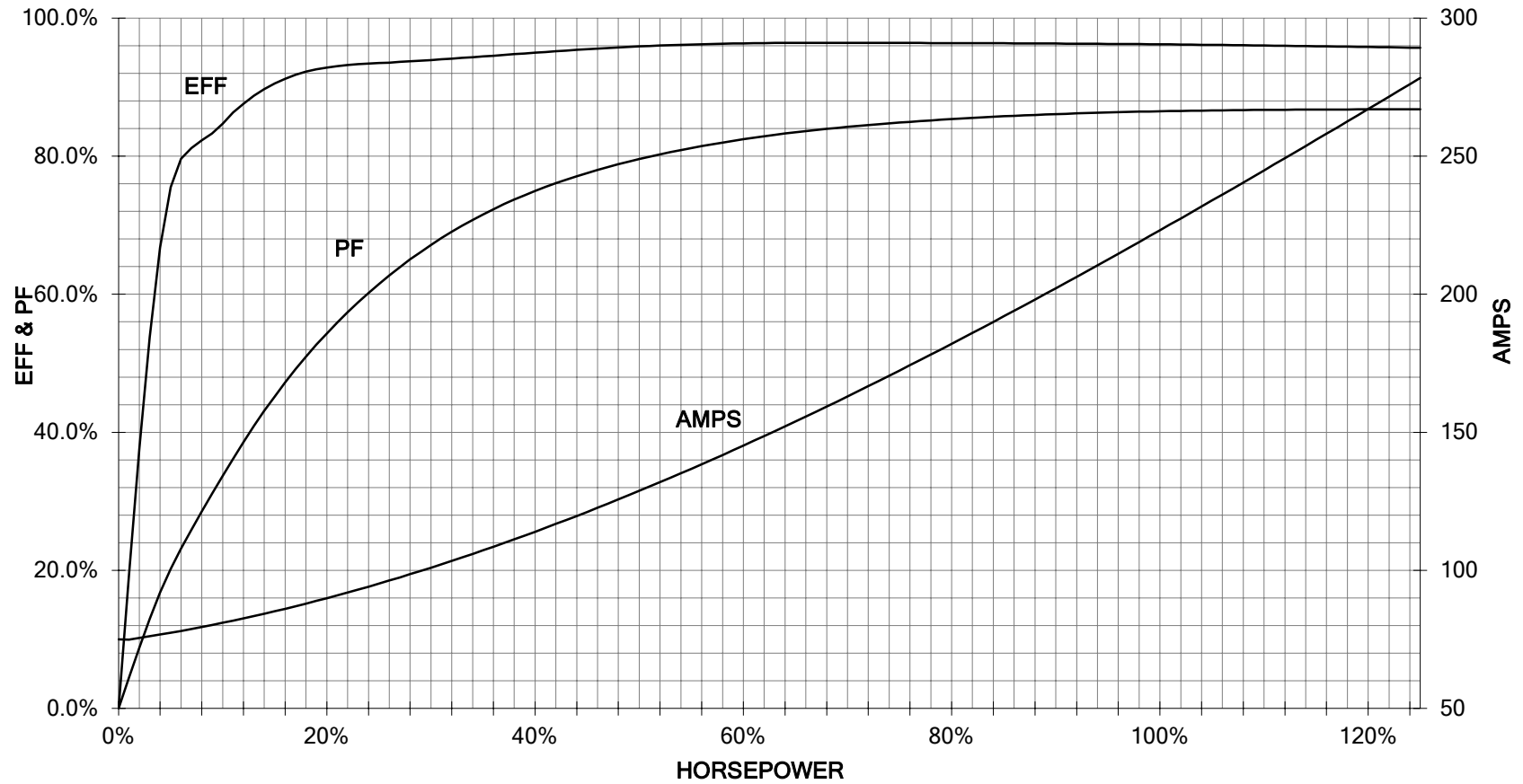


3 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
<b>SIEMENS</b>	document type Wiring Diagram	document status free		customer
	title 1LE6321-4GA11-3AA1	document number		
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200 HP 3600 RPM 447T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.  
PERFORMANCE CURVE  
SD200



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

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

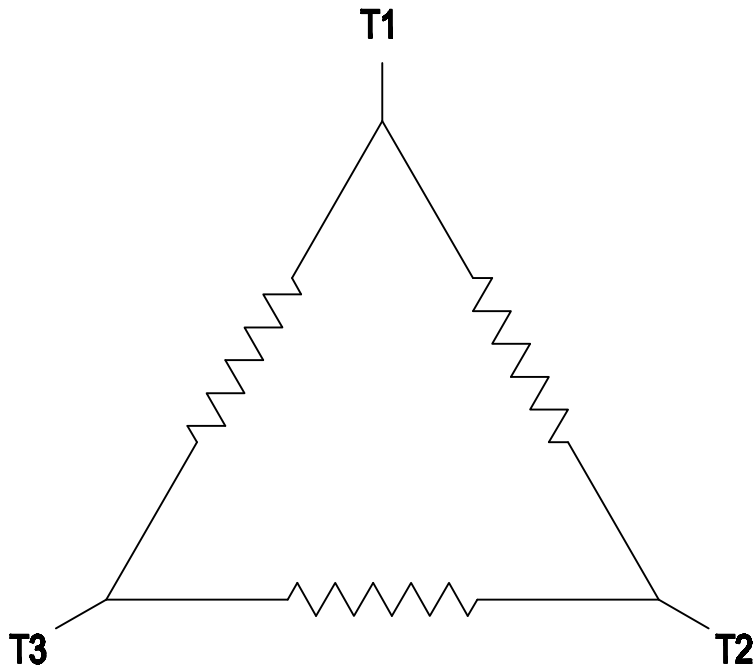
REV. 1

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### 3 PHASE - 3 LEADS - DELTA

L1	L2	L3	CONN.
T1	T2	T3	△



B

B

A

A

THIS IS A CAD DRAWING  
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01 | 09-27-07

TYPE

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Siemens Energy & Automation, Inc.  
Industrial Motor Division - Little Rock, AR

FRAME

HP

NAME

WIRING DIAGRAM

VOLTS

RPM

HZ

PH

3

Customer

DRAWN 9.24.07

DATE JRH

CHECKED

DATE

APP

DATE

SHEET

1 OF 1

Sim. To

PART NO.

51-382-114-504

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