

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

Motor type: **SD200 NEMA Premium 841** FS: R449T - 4p - 300 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]	Δ/Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					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	LRC	4/4	3/4	2/4	4/4	3/4	2/4			
460	Δ	60	300.00	223.80	1,785	365	272.60	216.90	144.00	2200.0	96.2	96.6	96.8	80.0	80.0	66.9	882.0	200	220
Frame Type: R449T		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: 2,097						Temp. Rise Cl.: B		Amb. Temp.: + 40 to °C @1000 m			kVA: G		IP 55						

Mechanical data


Sound level (SPL / SWL) at 60 Hz	822.0 dB(A) / 936.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	22 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	30 s
SPL@3	71.0	781.0	775.0	74.0	668.0	601.0	dB(A)	Frame material	Cast iron
Moment of inertia	63.7 Lb-ft ²		Color, paint shade	RAL 7030					
Ext Load Inertia Capability:	1200.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings									
Bearing DE NDE	NU320		NU320	Ventilation Type					
Bearing_Type	Roller Bearing		Ball Bearing	Method of cooling	TEFC				
AFBMA:	100RU03M0		75BC03JP3	Direction of rotation	Bi-Directional				
Grease									
Capacity	23 oz		15 oz	Fan Material	Polypropylene ESD				
Grease Type:	Exxon Mobil EM			VFD	CT: -/ VT: 20:1				
				Space heaters	without				
				Brake:	-/				

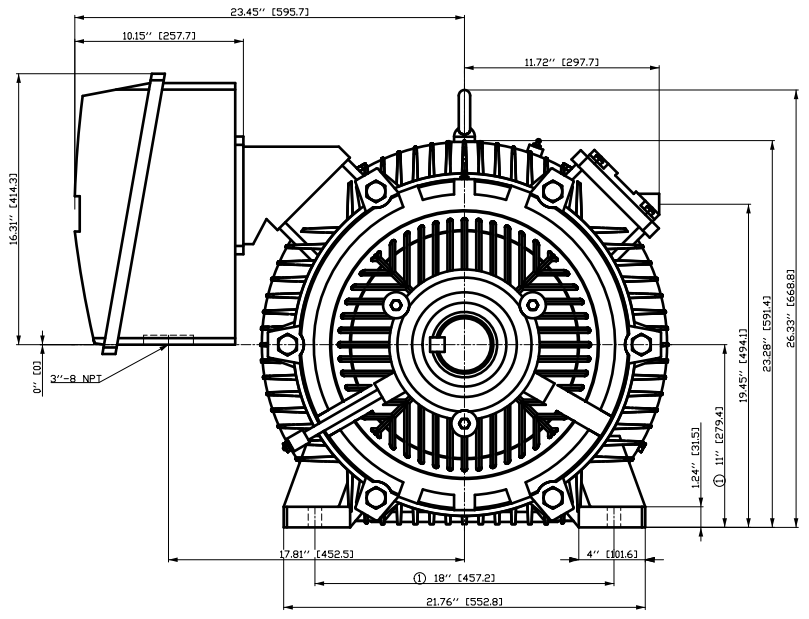
Terminal box

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) 4" NPT
RUN	T1	T2	T3	---		

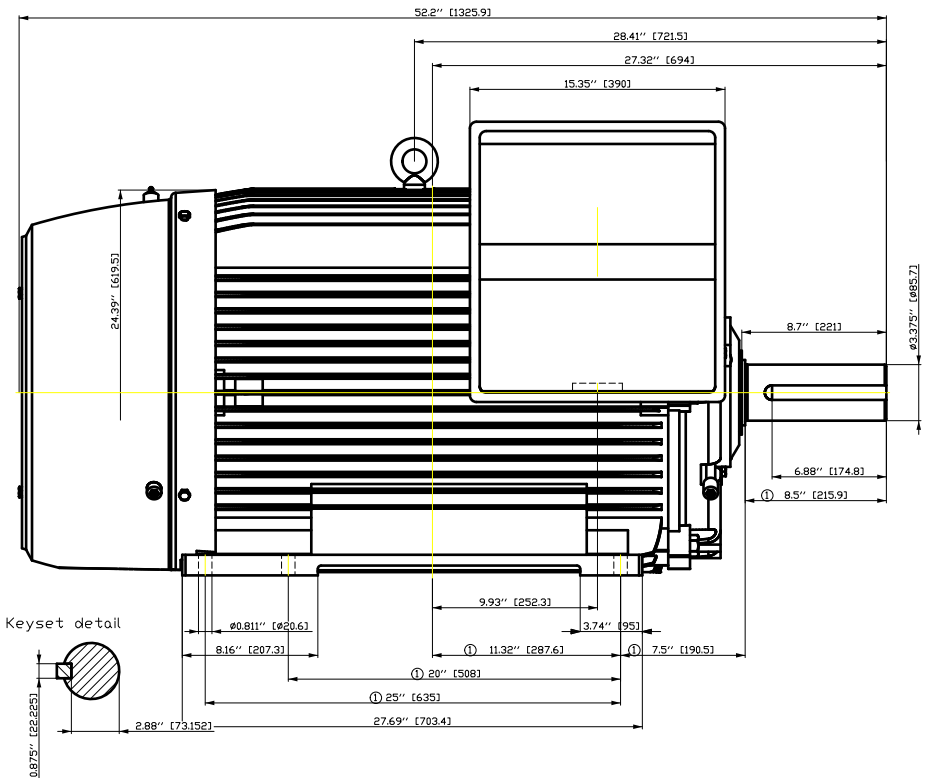
Notes:

I_L/I_N = locked rotor current / current nominal
M_L/M_N = locked rotor torque / torque nominal
M_k/M_N = break down torque / nominal torque
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

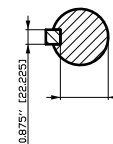
responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>	
	document type datasheet	document status released	customer		
	title 1LE6322-4TB31-2AA1	document number			
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① Tolerances according to NEMA std.
All dimensions corresponding to assemblies and castings shall have a tolerance as per ISD 8062-3 DCTG 12.



Keyset detail



Tolerance	Surface	Material	Weight E	Scale 1:1
F501 HG4 VOF F000E E	Author Creator Approval Department Change Order	ÖS T a : ^ @ } *		
SIEMENS	Doc. State Revision	I EGG Index RS	MLFB Item No	Doc Type Paper Size 1st Language 2nd Language
	© Siemens AG 2018 Project No	E	Ref No E	F of F

刀线等
用转为
用文全
按

ÖS () HG4 VOF F000E E

Author
Creator
Approval
Department
Change Order

Doc. State
Revision

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Project No

1 2 3 4 5 6 7 8

A A

B B

C C

D D

E E

F F

1 2 3 4 5 6 7 8

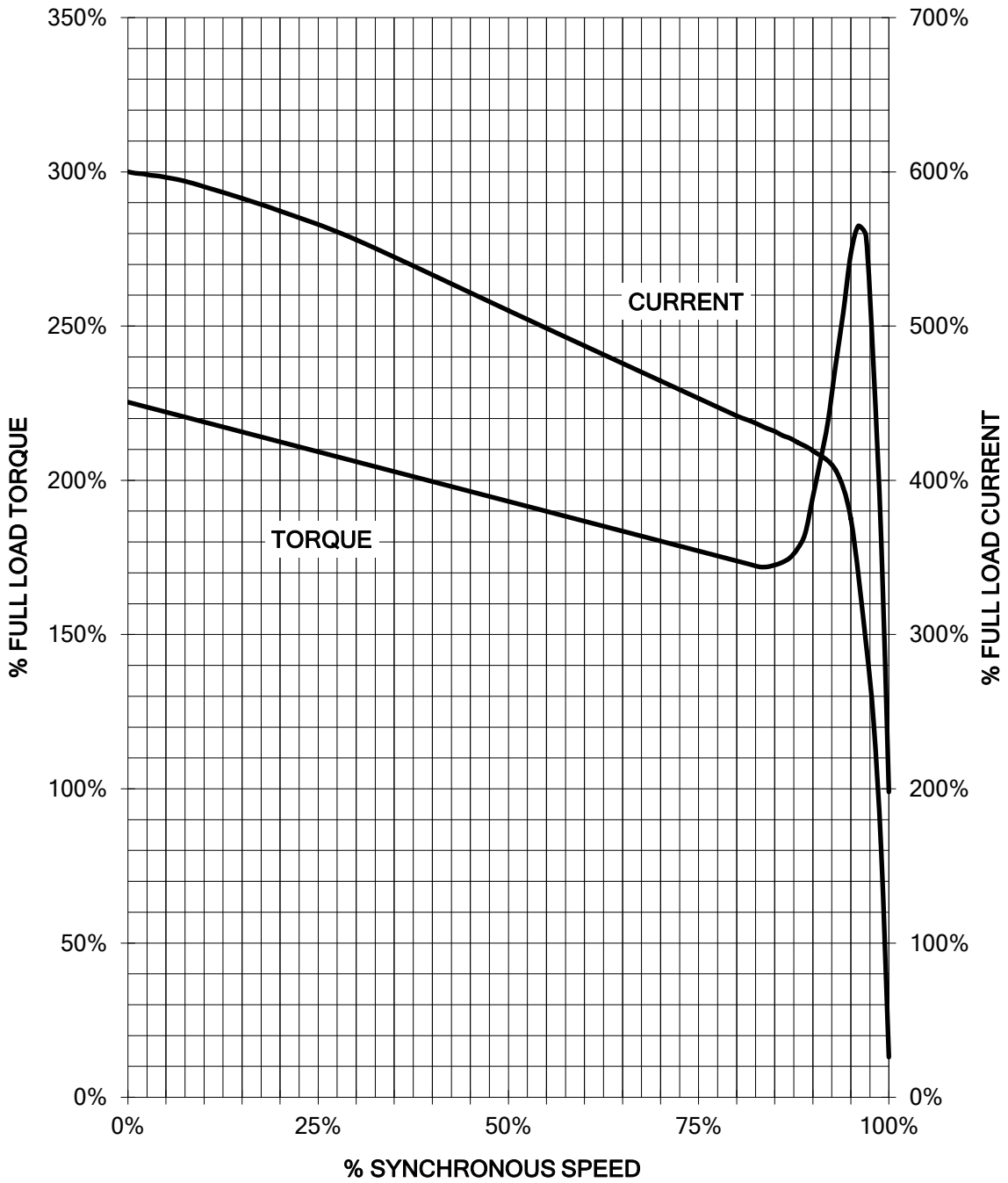
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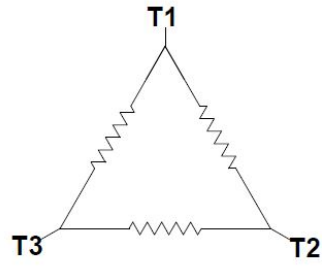
HP 300 VOLTS 460 RPM 1785 TYPE SD200
HZ 60 PHASE 3 FRAME 449T NEMA B

TORQUE & CURRENT VS. SPEED



Unrestricted CUSTOMER: _____ ORDER#: _____

Main terminal diagram

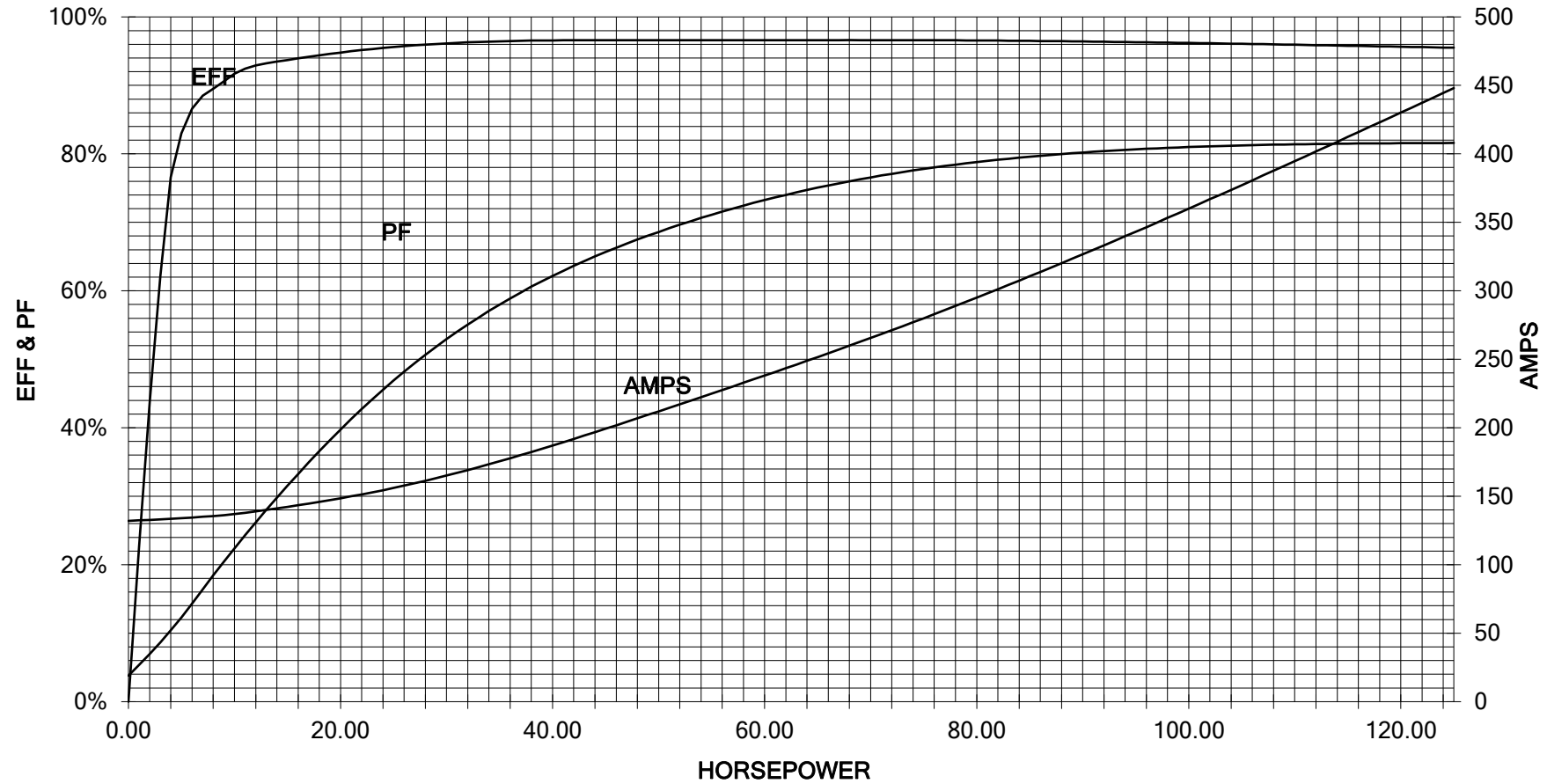


3 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
SIEMENS	document type Wiring Diagram	document status free		customer
	title 1LE6322-4TB31-2AA1	document number		
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300 HP 1800 RPM 449T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD200



Unrestricted CUSTOMER _____ ORDER # _____ PO # _____

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

REV. 1

2

1

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

Customer

3

PO #

SO #

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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