

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

Motor type: SD200 NEMA Premium 841 **FS: 449T - 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: 449T	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: 2,119		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								Ventilation Type	
Bearing DE NDE	6320 Z C3 S0			6320 Z C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bi-Directional	
AFBMA:	100BC03JP3			75BC03JP3			Fan Material	Polypropylene ESD	
Grease								VFD	CT: 4:1 VT: 20:1
Capacity	23 oz			15 oz			Space heaters	without	
Grease Type:	Exxon Mobil EM							Brake:	-/-

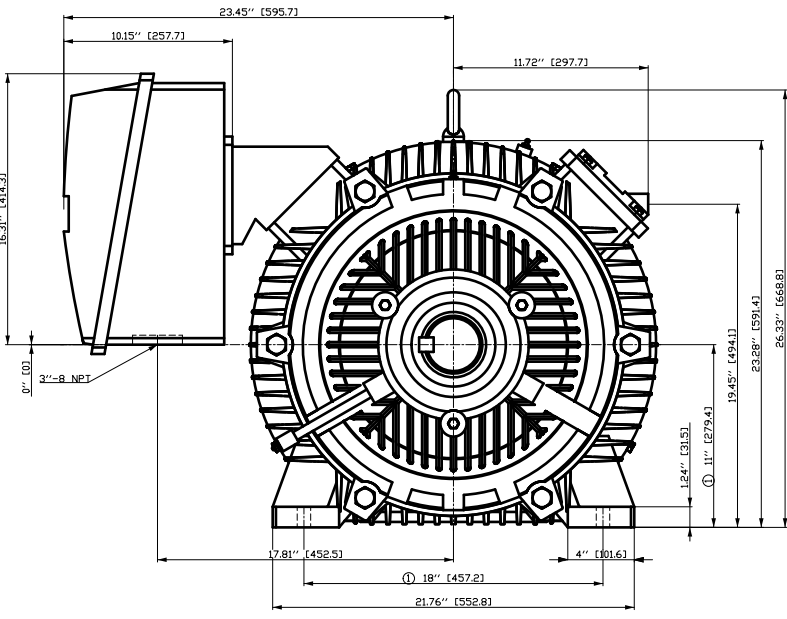
Terminal box

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) 4" NPT
RUN	T1	T2	T3	---	Δ		

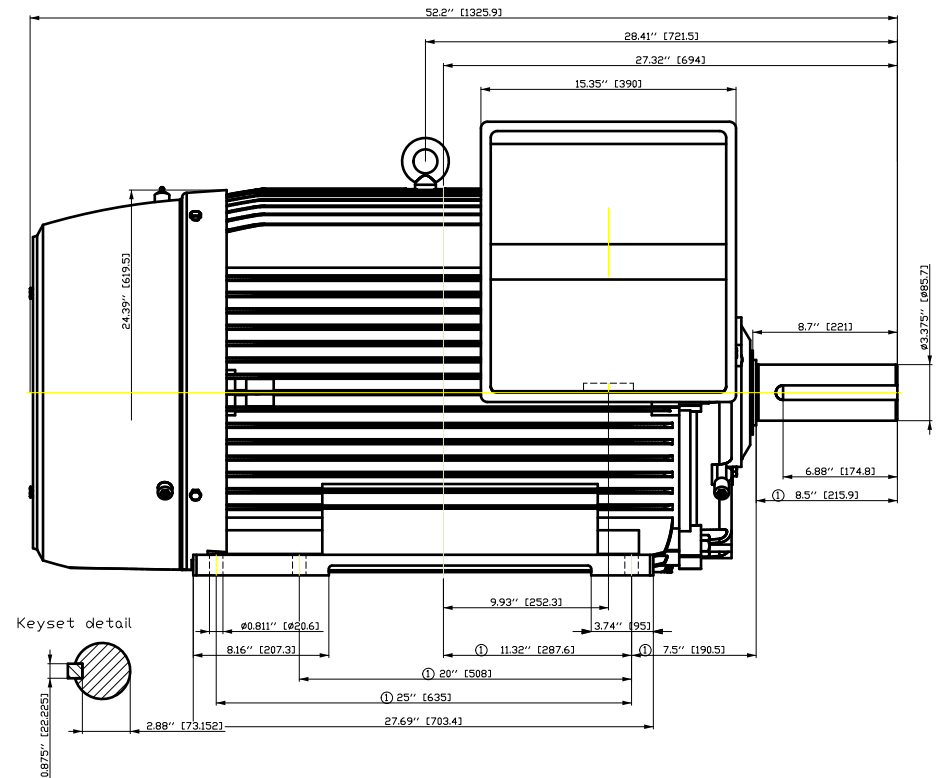
Notes:							
I _L /I _N = locked rotor current / current nominal				3) Value is valid only for DOL operation with motor design IC411			
M _L /M _N = locked rotor torque / torque nominal				2) at rated power / at full load			
M _k /M _N = break down torque / nominal torque							

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					

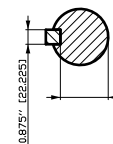
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	title	document number			
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① Tolerances according to NEMA std.
All dimensions corresponding to assemblies and castings shall have a tolerance as per ISO 8062-3 DCTG 12.



Keypad detail



Tolerance	Surface	Material	Weight É	Scale { } ↗
F501 HGCE ÓÓH-FEGODE É	Author Creator Approval Department Change Order	Óä ^}•á }á^á^á * T ä : ^æ@ } * MLFB	Doc Type /	Paper Size CH
SIEMENS	Doc State Revision Index RS	Item No Doc No		
© Siemens AG 2018	Project No É	Ref No É	Sheet F of F	

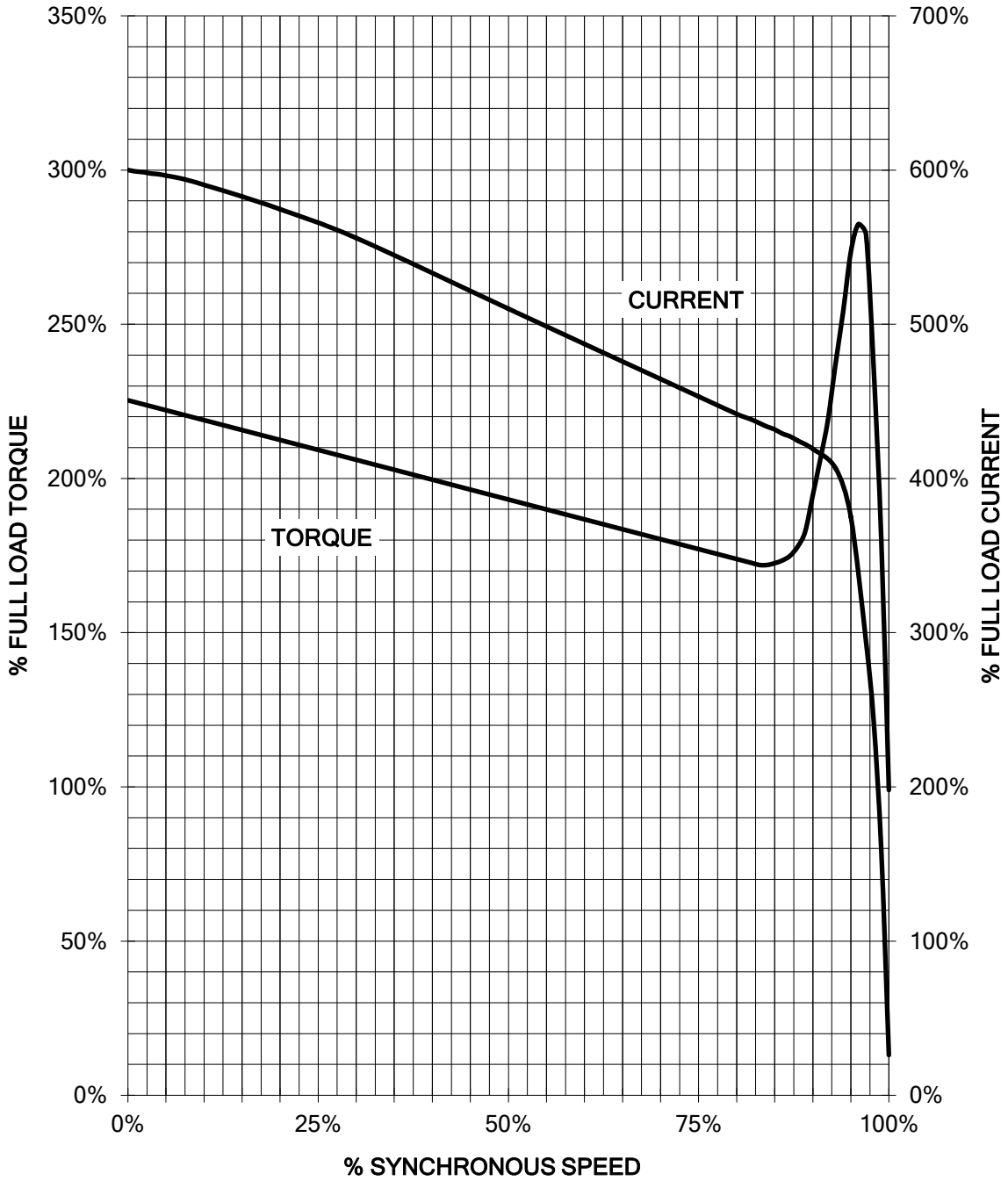
刀版者... 用文... 版...
 Q1: 10.15 23.45 11.72 17.81 21.76 1.24 19.45 23.28 26.33 4 11 0 2'-8 NPT
 Q1: 10.15 23.45 11.72 17.81 21.76 1.24 19.45 23.28 26.33 4 11 0 2'-8 NPT
 Q1: 10.15 23.45 11.72 17.81 21.76 1.24 19.45 23.28 26.33 4 11 0 2'-8 NPT

A A
 B B
 C C
 D D
 E E
 F F

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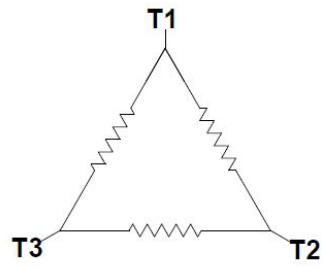
HP 300 VOLTS 460 RPM 1785 TYPE SD200
HZ 60 PHASE 3 FRAME 449T NEMA B

TORQUE & CURRENT VS. SPEED



Unrestricted CUSTOMER: _____ ORDER#: _____

Main terminal diagram

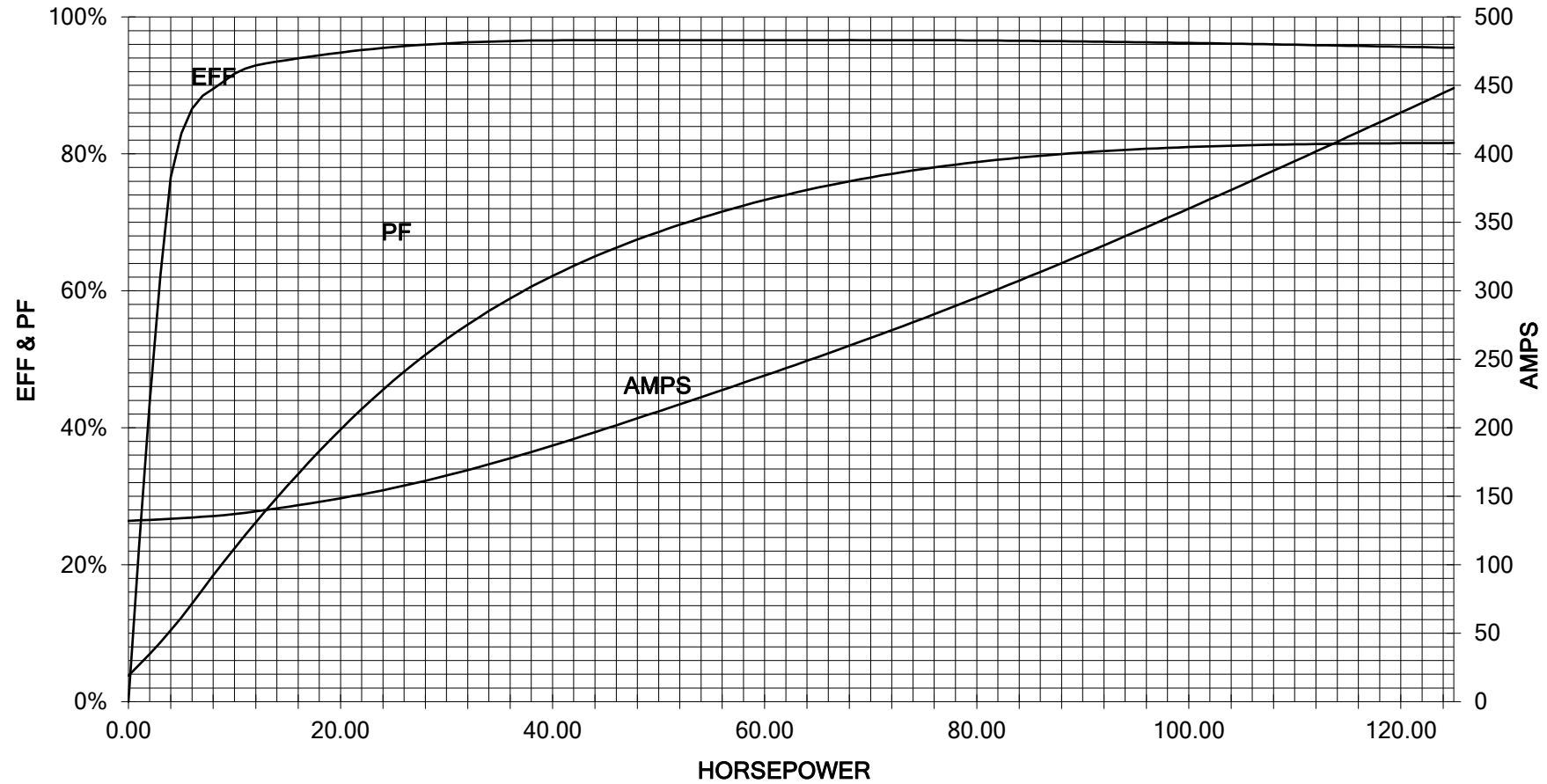


3 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
SIEMENS	document type Wiring Diagram	document status free		customer
	title 1LE6322-4CB31-2AA1	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
DO NOT MAKE MANUAL CHANGES

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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

PO #

SO #

DRAWN 9.24.07 DATE JRH

CHECKED DATE

APP DATE

SHEET

1 OF 1

Sim. To

PART NO.

51-382-114-504

A

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