

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

Motor type: **SD200 NEMA Premium 841** FS: R445T - 6p - 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 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]					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	93.25	1,185	152	119.60	93.60	65.50	907.0	95.0	95.3	95.0	81.3	77.0	65.8	554.7	160	260	

Frame Type: R445T	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: 1,552		Temp. Rise Cl.: B	Amb. Temp.: + 40 to °C @1000 m	kVA: G	IP 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	66.0 dB(A) / 77.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	25 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	35 s
SPL@3	58.0	61.0	61.0	59.0	56.0	41.0	dB(A)	Frame material	Cast iron
Moment of inertia	40.3 Lb-ft ²		Color, paint shade	RAL 7030					
Ext Load Inertia Capability:	1450.0 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: 4:1 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
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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

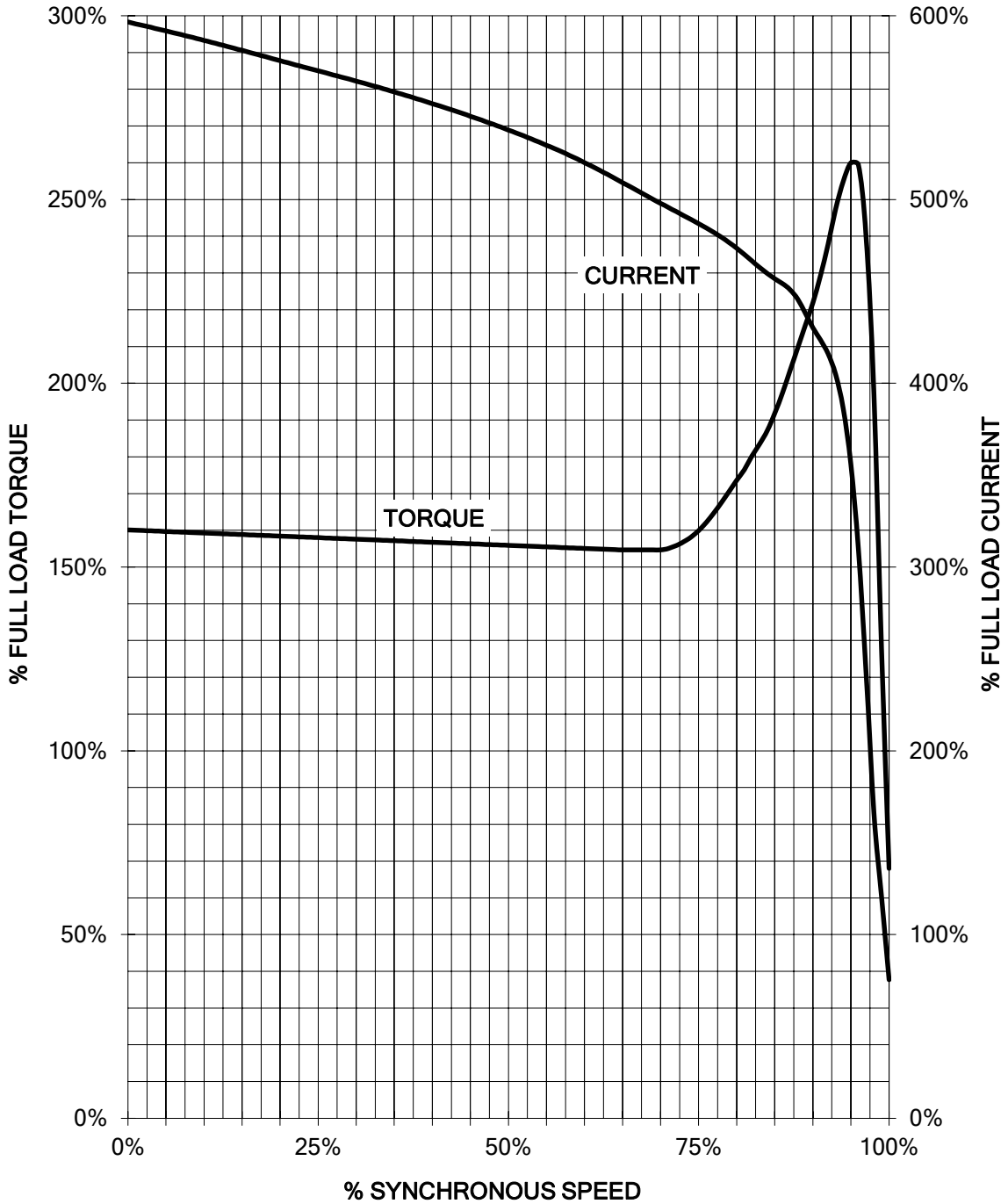
responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>
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	title 1LE6322-4SC21-2AA1	document number		
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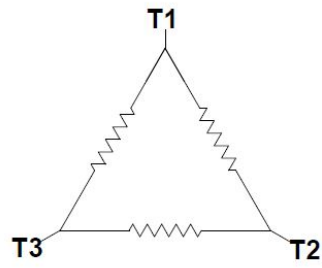
HP 125 VOLTS 460 RPM 1200 TYPE SD200
HZ 60 PHASE 3 FRAME 445T NEMA B

TORQUE & CURRENT VS. SPEED



Unrestricted CUSTOMER: _____ ORDER#: _____

Main terminal diagram

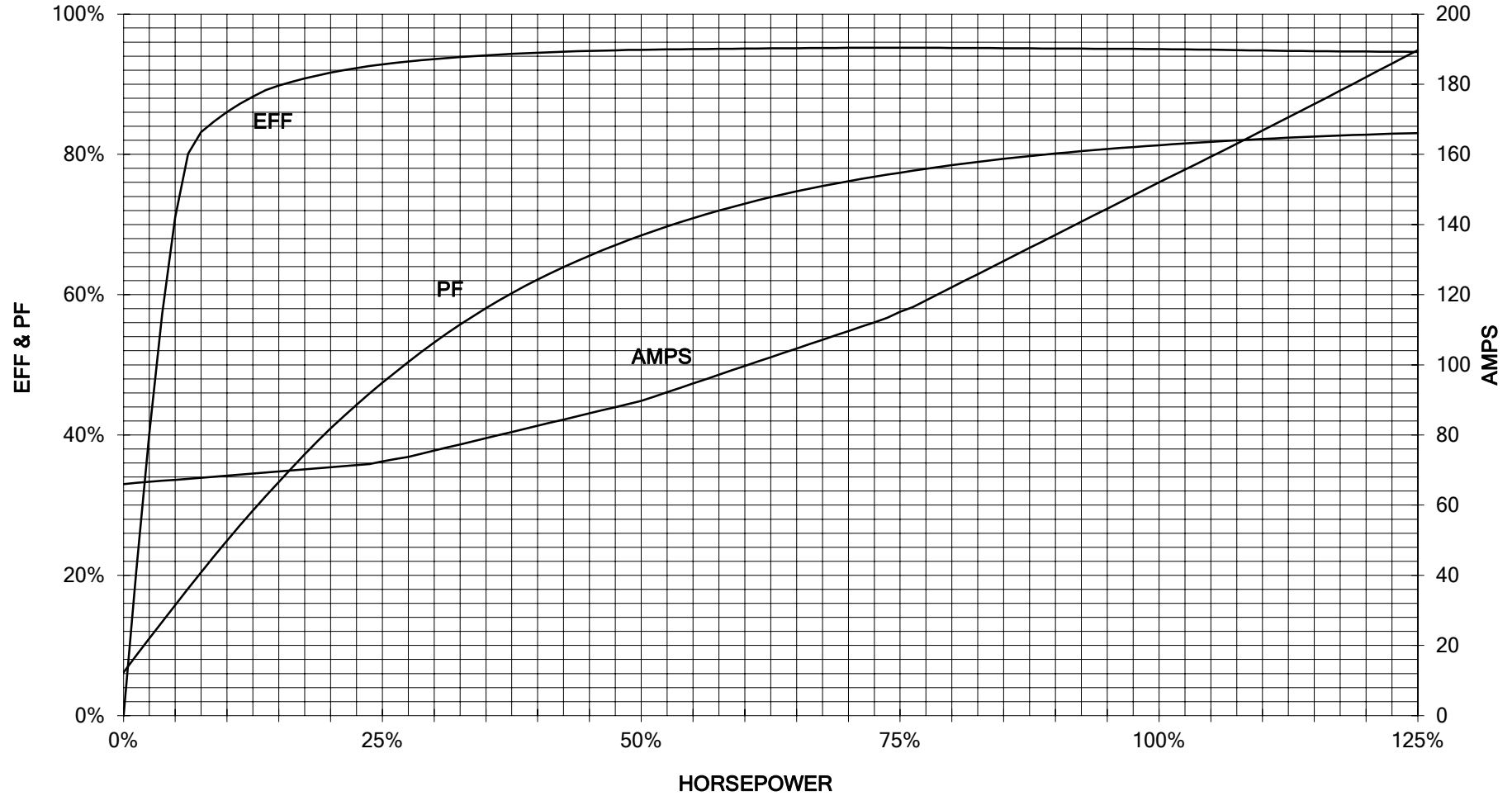


3 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
SIEMENS	document type Wiring Diagram	document status free		customer
	title 1LE6322-4SC21-2AA1	document number		
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125 HP 1200 RPM 445T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD200



Unrestricted CUSTOMER _____ ORDER # _____ PO # _____

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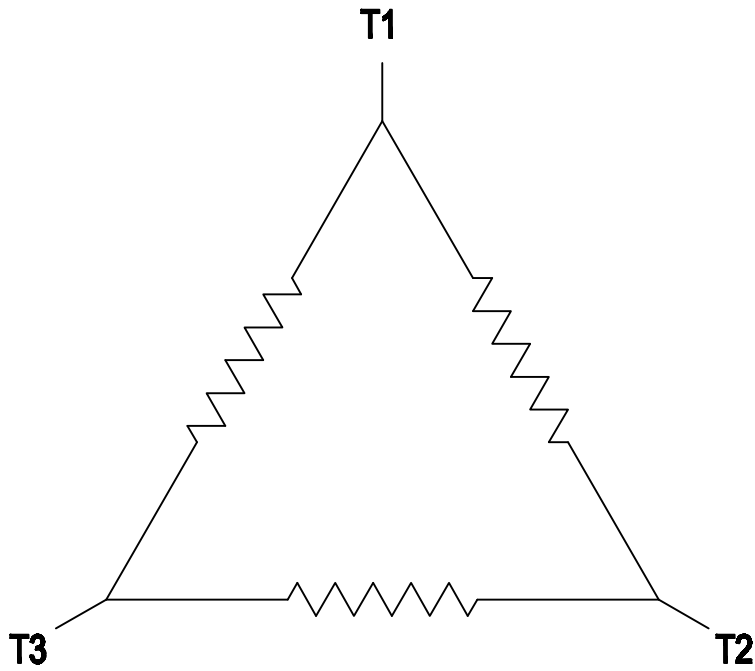
REV. 1

2

1

3 PHASE - 3 LEADS - DELTA

L1	L2	L3	CONN.
T1	T2	T3	△



B

B

A

A

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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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