

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

Motor type: SD200 NEMA Premium Next Generation **FS: R444T - 4p - 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	$\Delta \Delta$	60	125.00	93.25	1,785	154	120.80	92.70	63.00	907.0	95.4	95.6	95.2	80.0	76.0	66.3	366.0	200	280	

Frame Type: R444T	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: 1,502		Temp. Rise Cl.: B	Amb. Temp.: + 40 to °C @1000 m	kVA: G	IP 55

Mechanical data


Sound level (SPL / SWL) at 60 Hz	77.0 dB(A) / 88.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	20 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	25 s
SPL@3	63.0	70.0	73.0	70.0	62.0	55.0	dB(A)	Frame material	Cast iron
Moment of inertia	37.7 Lb-ft ²		Color, paint shade	RAL 7030					
Ext Load Inertia Capability:	542.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings			Ventilation Type						
Bearing DE NDE	NU320		6315 Z C3 S0	Method of cooling	TEFC				
Bearing_Type	Roller Bearing		Ball Bearing	Direction of rotation	Bi-Directional				
AFBMA:	100RU03M0		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	12 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	T12-T7-T6-T1	T10-T8-T4-T2	T11-T9-T5-T13	----		$\Delta \Delta$

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

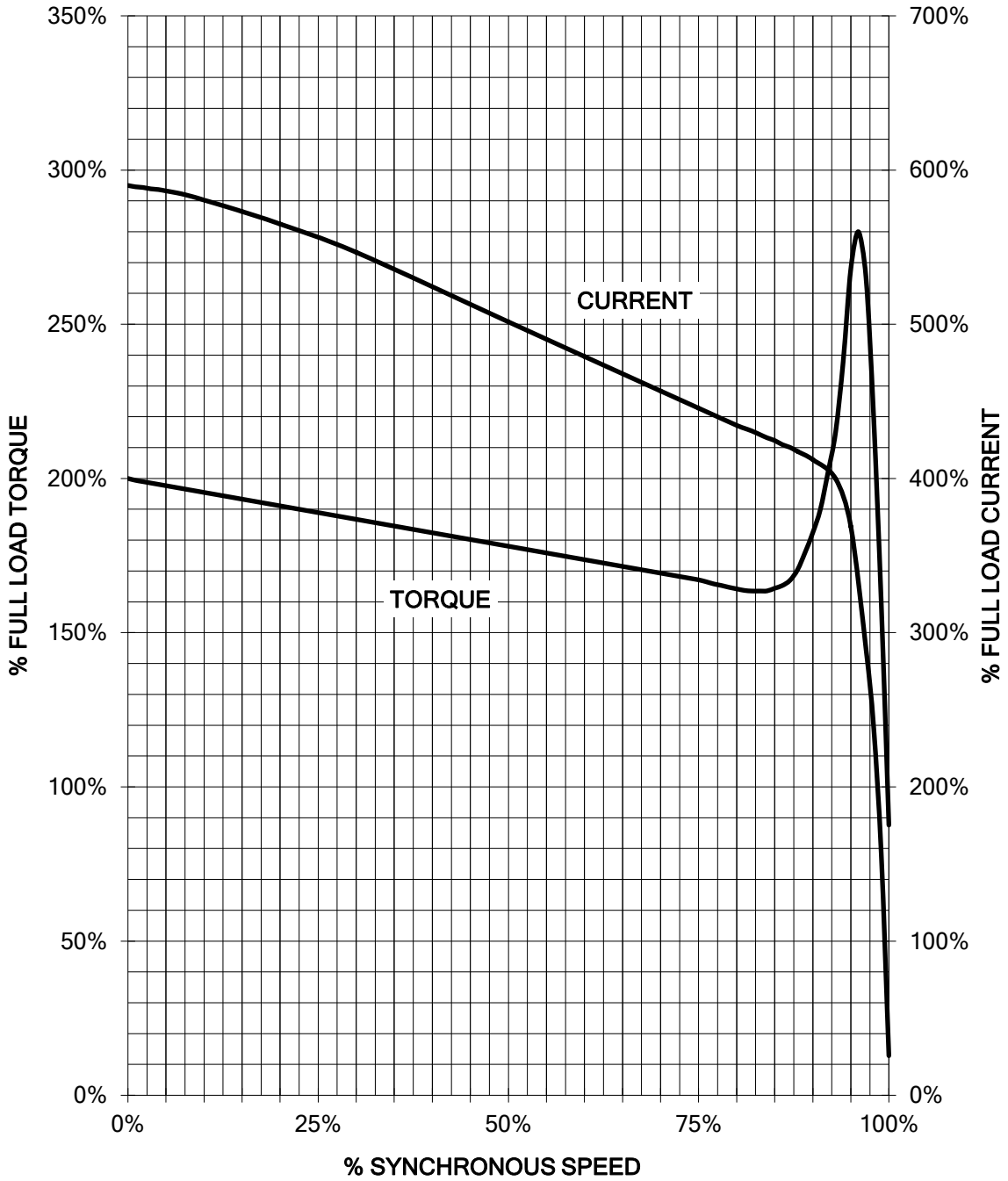
responsible dep.	technical reference	created by	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>	
DI MC LVM		DT Configurator			

	document type	document status		customer	
	datasheet	released			
	title	document number			
	1LE6321-4SB11-2AA1				
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	01	2022-04-09 01:18	en	1/1	

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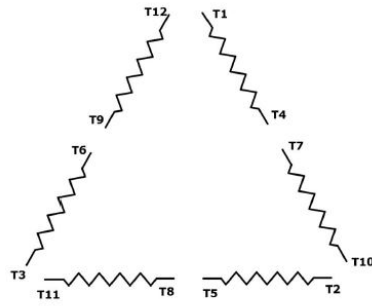
HP 125 VOLTS 460 RPM 1785 TYPE SD200
HZ 60 PHASE 3 FRAME 444T NEMA B

TORQUE & CURRENT VS. SPEED



Unrestricted CUSTOMER: _____ ORDER#: _____

Main terminal diagram

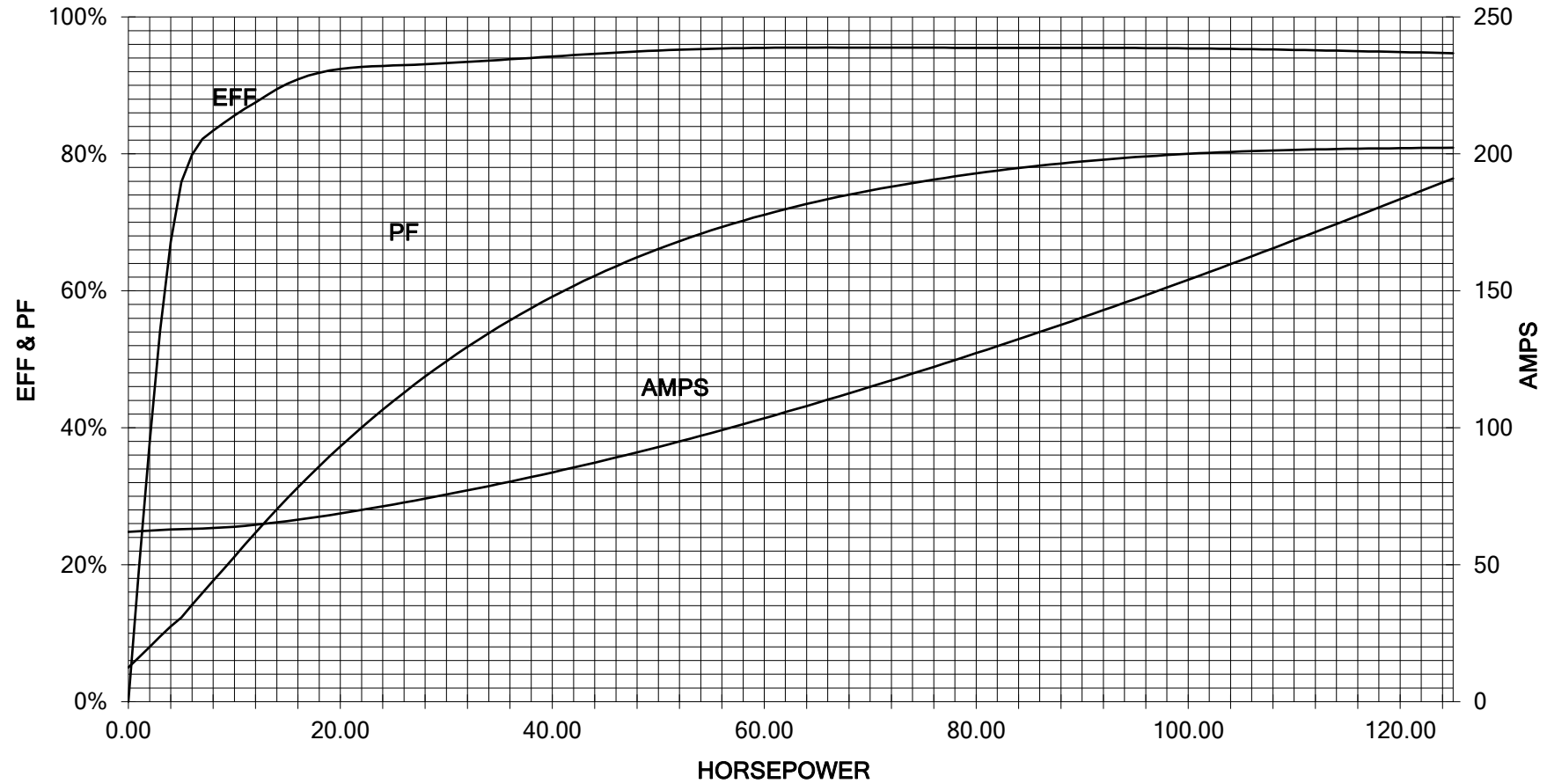


12 LEAD DELTA		
LINES	CONNECT TOGETHER	CONN.
L1	T12 - T7 - T6 - T1	ΔΔ
L2	T10 - T8 - T4 - T2	
L2	T11 - T9 - T5 - T3	

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
SIEMENS	document type Wiring Diagram	document status free		customer
	title 1LE6321-4SB11-2AA1	document number		
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				Page 1/1

125 HP 1800 RPM 444T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

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PERFORMANCE CURVE
SD200



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

REV. 1