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

Motor type: **SD200 NEMA Premium 841** **FS: 449T - 4p - 250 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] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	2/4	Pwr. Factor Load [%] 4/4	3/4	2/4	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460	Δ	60	250.00	186.50	1,785	305	239.40	184.10	120.00	1825.0	96.2	96.5	96.6	80.0	76.0	65.8	735.0	220	280

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:2,076		Temp. Rise Cl.: B	Amb. Temp.: + 40 to °C @1000 m	kVA: G	IP 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	83.0 dB(A) / 94.0 dB(A)

Octave Band Center Frequencies Hertz	250	500	1000	2000	4000	8000	Hz
SPL@3	71.0	79.0	78.0	74.0	67.0	61.0	dB(A)

Moment of inertia	59.6 Lb-ft²
Ext Load Inertia Capability:	1020.0 Lb ft²

Bearings		
Bearing DE | NDE	6320 Z C3 S0	6315 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	100BC03JP3	75BC03JP3
Grease		
Capacity	15 oz	15 oz
Grease Type:	Exxon Mobil EM	

Thickener	Polyurea
Safe Stall Time Hot	30 s
Safe Stall Time Cold	25 s
Frame material	Cast iron
Color, paint shade	RAL 7030
Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Ventilation Type	
Method of cooling	TEFC
Direction of rotation	Bi-Directional
Fan Material	Polypropylene ESD
VFD	CT: 4:1 VT: 20:1
Space heaters	without
Brake:	-/-

Terminal box

Lead Wire Connection			3 TERMINAL - Connection DELTA		
Voltage	L1	L1	L1	Connected together	
-- -- --	-- -- --	-- -- --	-- -- --	___	-
RUN	T1	T2	T3	-- -- --	Δ

Terminal box position	(1) LHS Mount - View From DE (F-1) - DE or Center of Motor
Material of terminal box	Cast Iron
Cable entry	(1) 4" NPT

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/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.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values*

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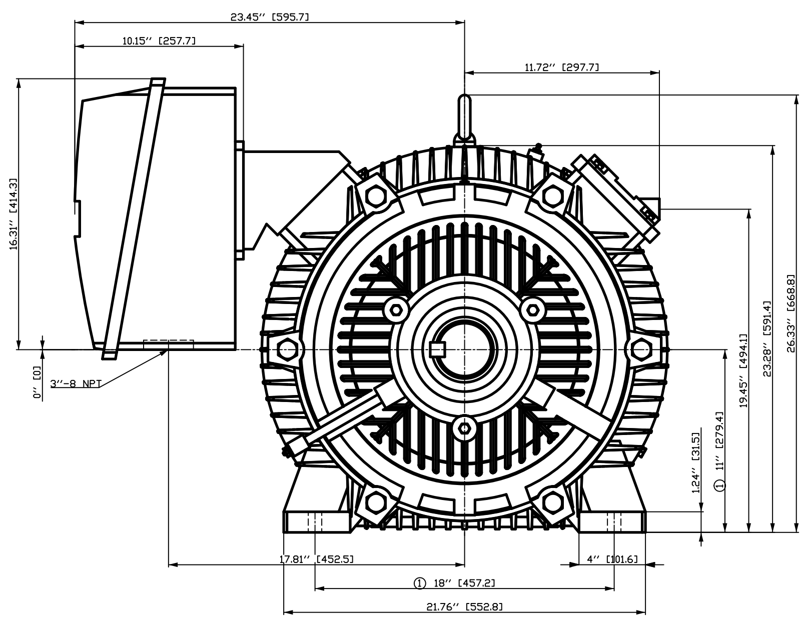
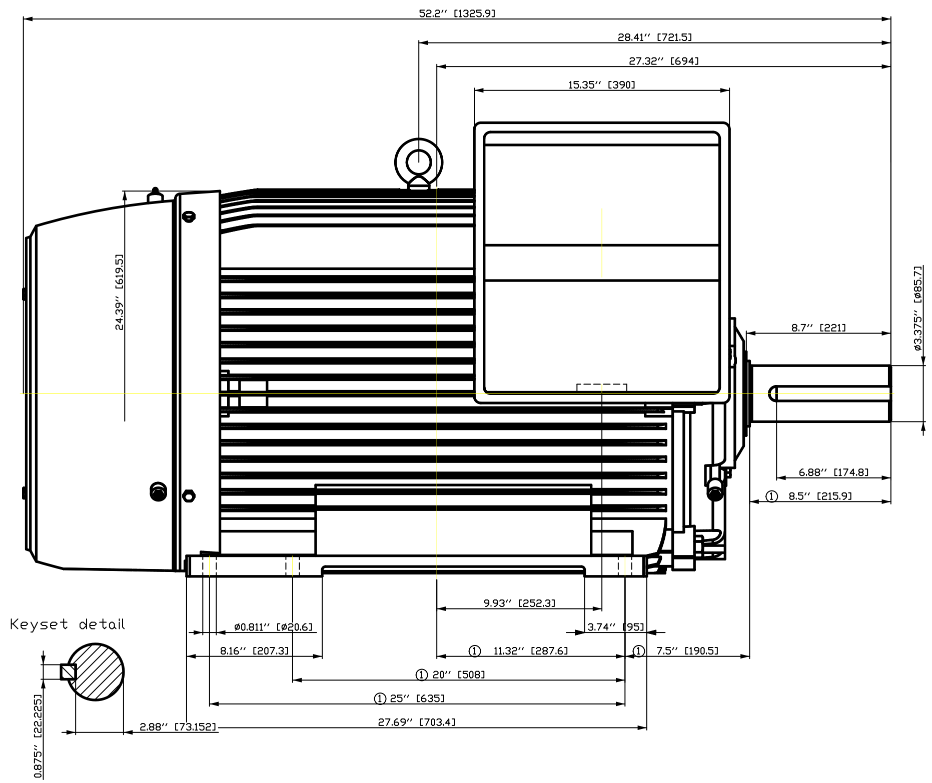
document type	document status	customer		
datasheet	released			
title	document number			
1LE6322-4CB21-2AA1				
	rev.	creation date	language	Page
	01	2022-04-09 01:29	en	1/1





① Tolerances according to NEMA std.

All dimensions corresponding to assemblies and castings shall have a tolerance as per ISO 8062-3 DCTG 12.

Tolerance	Surface	Material	Weight	Scale
			-	mm
1LE6322-4CB21-2AA1 -	Author	Dimensional drawing Maßzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc Type /	
SIEMENS	Doc State 4/9/22	Item No	Paper Size A3	
	Revision Index RS	Doc No	1st Language en 2nd Language de	
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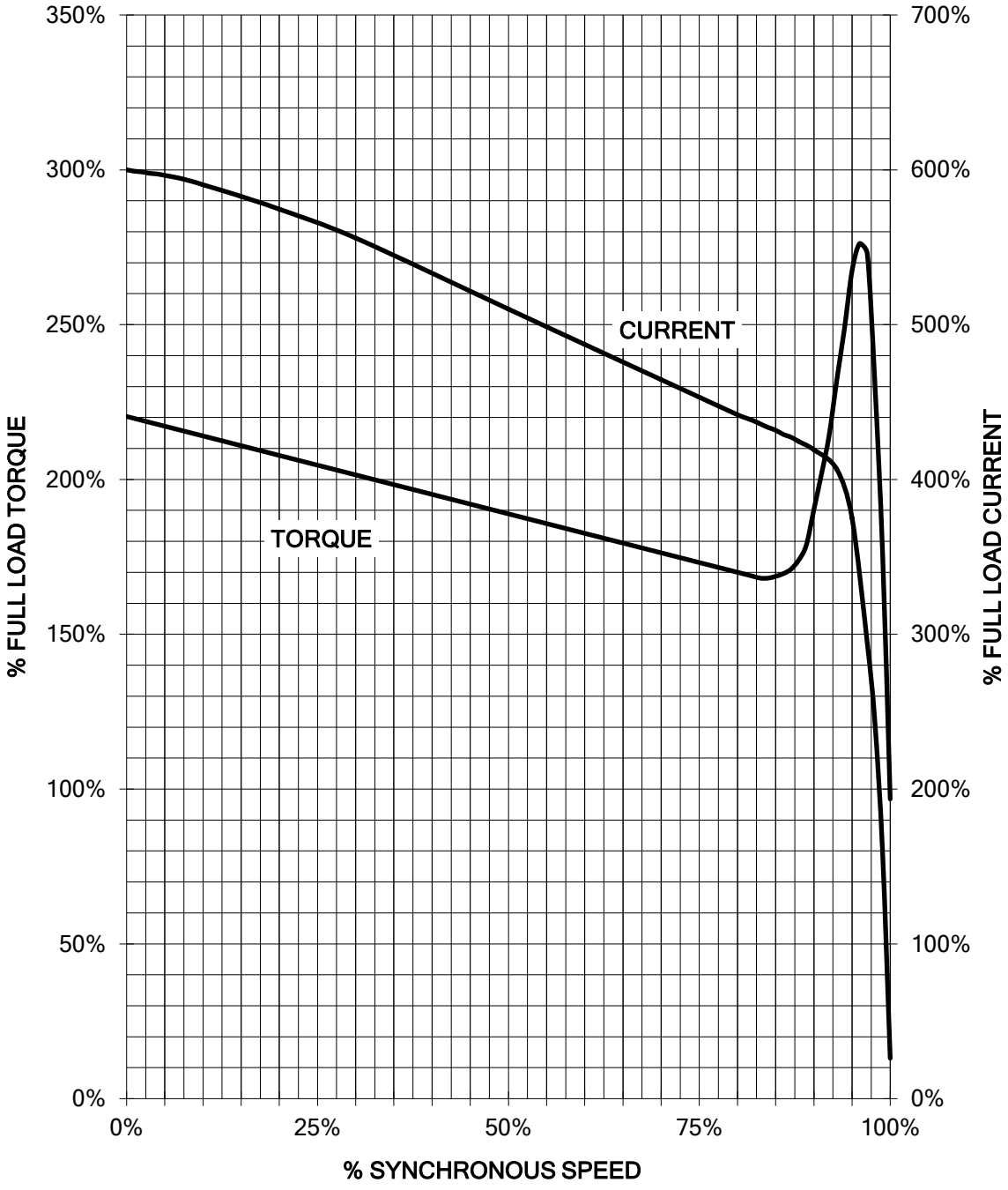
HP	250	VOLTS	460	RPM	1785	TYPE	SD200
HZ	60	PHASE	3	FRAME	449T	NEMA	B

TORQUE & CURRENT VS. SPEED



Unrestricted CUSTOMER: _____ ORDER#: _____

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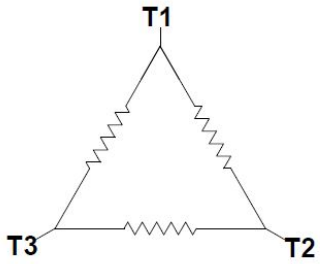
REV. 1

Main terminal diagram



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

responsible dep.	technical reference	created by	approved by	Project			
DI MC LVM							
SIEMENS	document type: Wiring Diagram			document status: free	customer		
	title: 1LE6322-4CB21-2AA1			document number			
				rev.: 01	creation date: 12/03/2019	language: en	Page: 1/1

250 HP 1800 RPM 449T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

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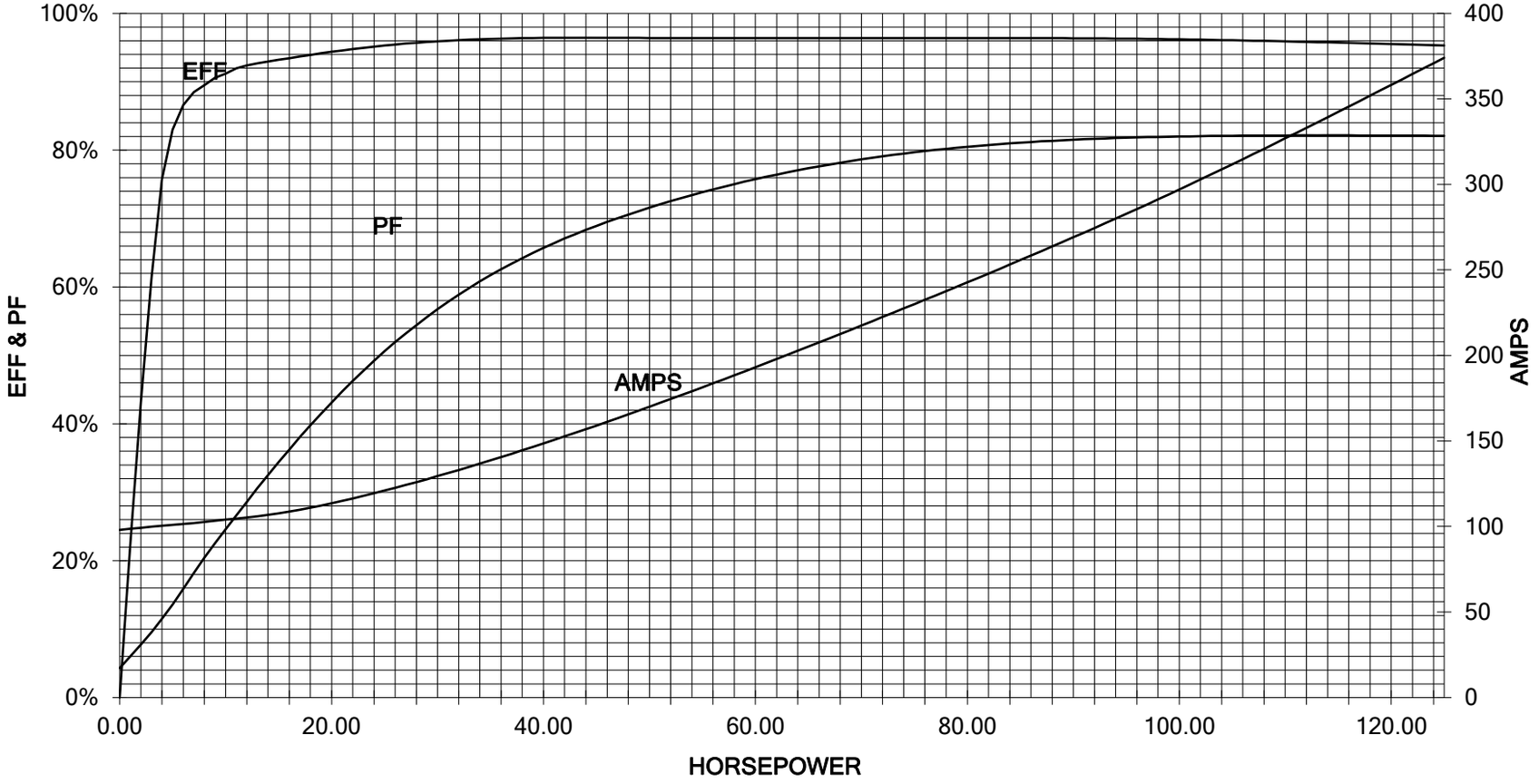
PERFORMANCE CURVE

SD200



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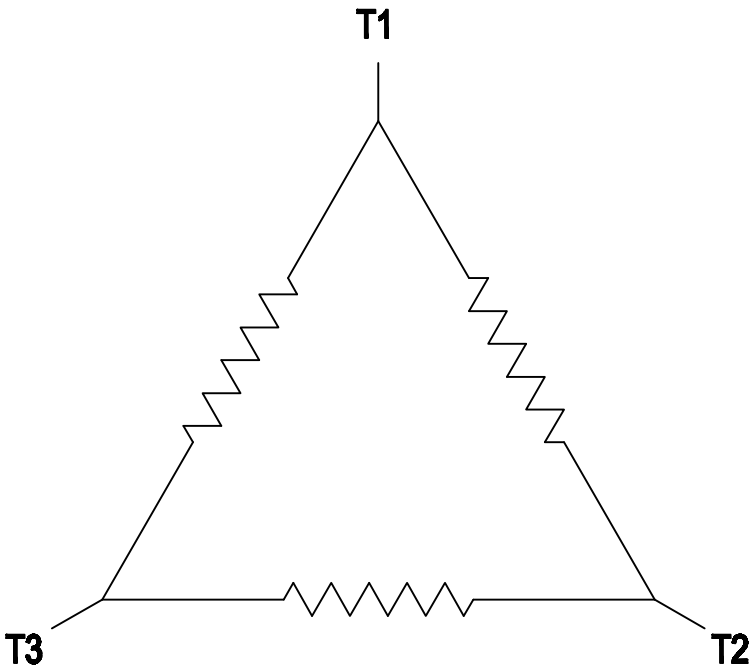
REV. 1

3 PHASE - 3 LEADS - DELTA

L1	L2	L3	CONN.
T1	T2	T3	△



THIS IS A CAD DRAWING
DO NOT MAKE MANUAL CHANGES

01	09-27-07	TYPE	
FRAME		HP	
VOLTS	RPM	HZ	PH 3
DRAWN 9.24.07 DATE JRH			
CHECKED DATE			
APP DATE			

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NAME WIRING DIAGRAM

Customer

PO # SO #

SHEET 1 OF 1 | Sim. To | PART NO. 51-382-114-504 | A