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

Motor type: **SD100** **FS: S449LS - 6p - 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

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	300.00	225.00	1,185	340.00	257.90	178.40	119.00	2400.0	95.8	96.1	96.0	86.0	85.0	82.0	1329.0	105	200

Frame Type: S449LS	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.:Standard Class F Insulation	Motor Prot.:(K) Stator RTDs, 2 Per Phase, w/Aux Box & Terminal Strip	NEMA Des.: A	S.F.: 1.15
Mtr. WT:3,240		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: H	I.P.: 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	75.0 dB(A) / 87.0 dB(A)

Octave Band Center Frequencies Hertz	250	500	1000	2000	4000	8000	Hz
SPL@3	65.0	71.0	71.0	65.0	62.0	53.0	dB(A)

Moment of inertia	106.0 Lb-ft²
Ext Load Inertia Capability:	324.0 Lb ft²

Bearings

Bearing DE | NDE	NU 320	6315 ZZ C3 S0
Bearing_Type	Roller Bearing	Ball Bearing
AFBMA:	100RU03M0	75BC03JPP30

Grease

Capacity	14.50 oz	7.50 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	26 s
Safe Stall Time Cold	33 s
Frame material	cast iron
Color, paint shade	2 Part Epoxy Pa...al Low Salt)
Coating (paint finish)	2 Part Epoxy Paint (Industrial-Coastal Low Salt)
Ventilation Type	
Method of cooling	TEFC
Direction of rotation	Bidirectional
Fan Material	Bronze
VFD	CT: 4:1 VT: 20:1
Space heaters	without
Brake:	without

Terminal box

Lead Wire Connection	6 LEAD - DELTA			
Voltage	L1	L1	L1	Connected together
-- -- --	-- -- --	-- -- --	-- -- --	-- -- --
-- -- --	T1	T2	T3	-- -- --

Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Material of terminal box	Cast Iron
Cable entry	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*

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document type	document status	customer
datasheet	released	
title	document number	
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L60+N01		

rev.	creation date	language	Page
01	2021-04-22 00:44	en	1/2

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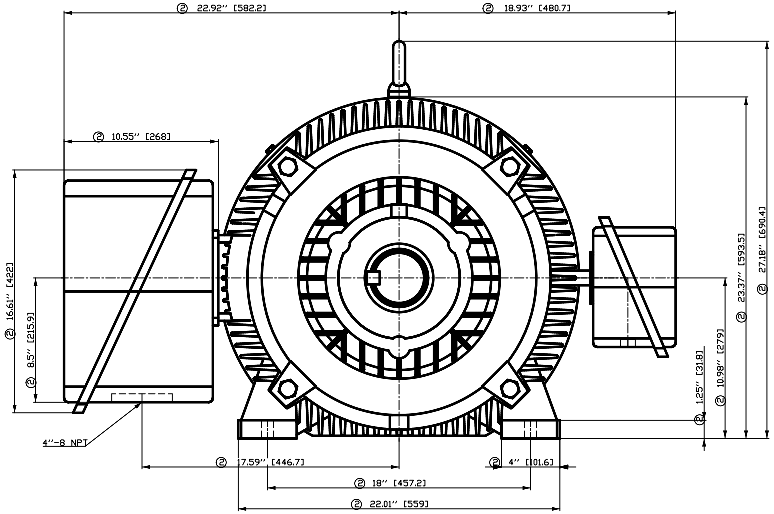
Special design

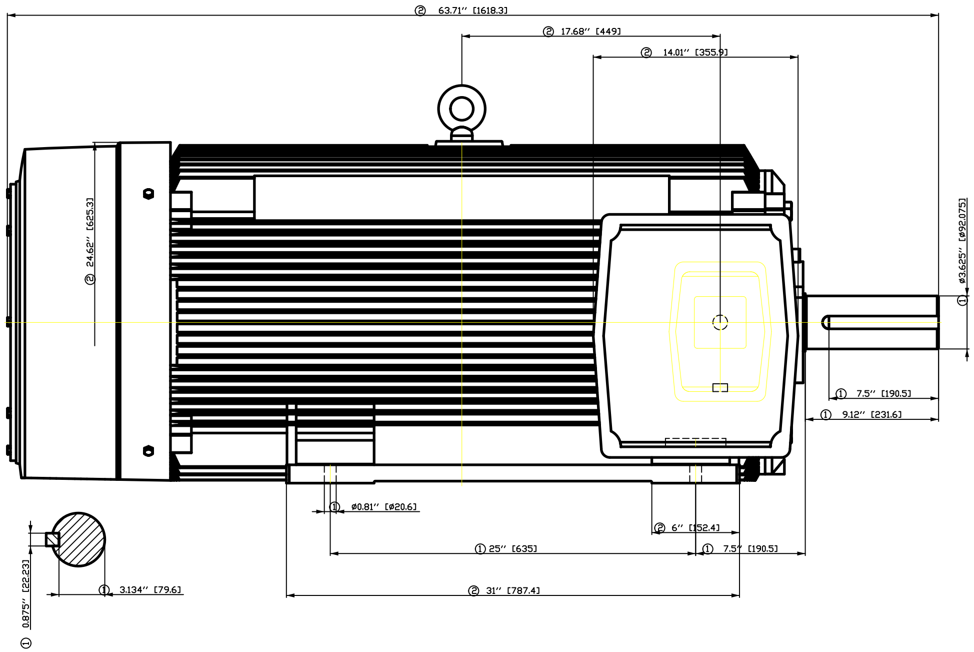
L60	Grease fitting - pressure relief	N01	Paint - 2 part epoxy (Carboline or Ameron)

Notes:

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*

SIEMENS	document type: datasheet	document status: released		customer
	title: 1LE2321-4FC11-2AK3-Z	document number		
	L60+N01	rev.: 01	creation date: 2021-04-22 00:44	language: en / Page: 2/2





① Tolerances according to NEMA std.

② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.

③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
			-	mm
1LE2321-4FC11-2AK3-Z L60+N01	Author	Dimensional drawing Maßzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB	Doc Type	
SIEMENS	Doc State 4/22/21	Item No	Paper Size A3	
	Revision Index RS	Doc No	1st Language en 2nd Language de	
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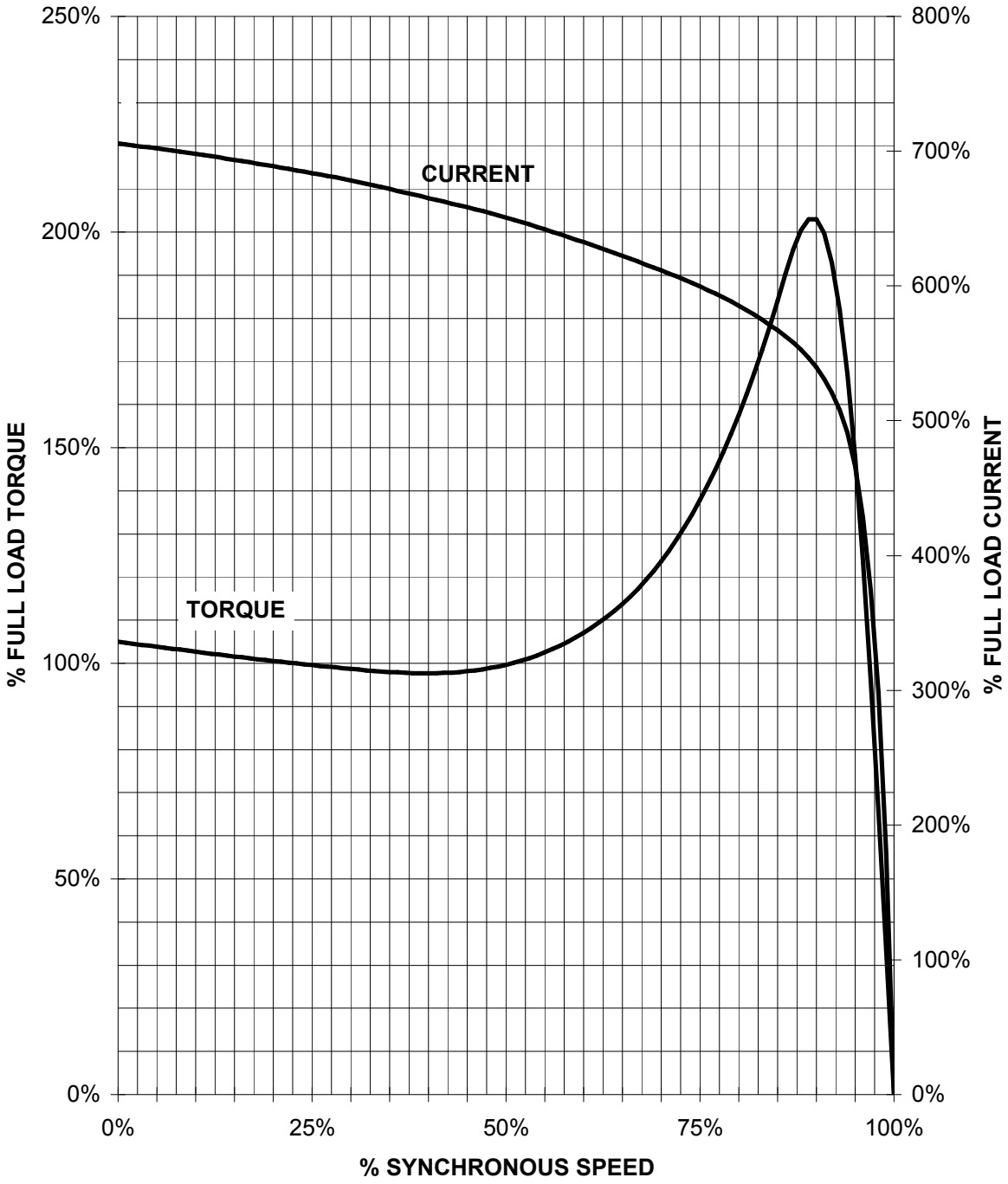
HP	300	VOLTS	< 600V	RPM	1200	TYPE	SD100
HZ	60	PHASE	3	FRAME	S449LS	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1

300 HP 1200 RPM S449LS FRAME 460 VOLTS 3 PHASE NEMA DESIGN A

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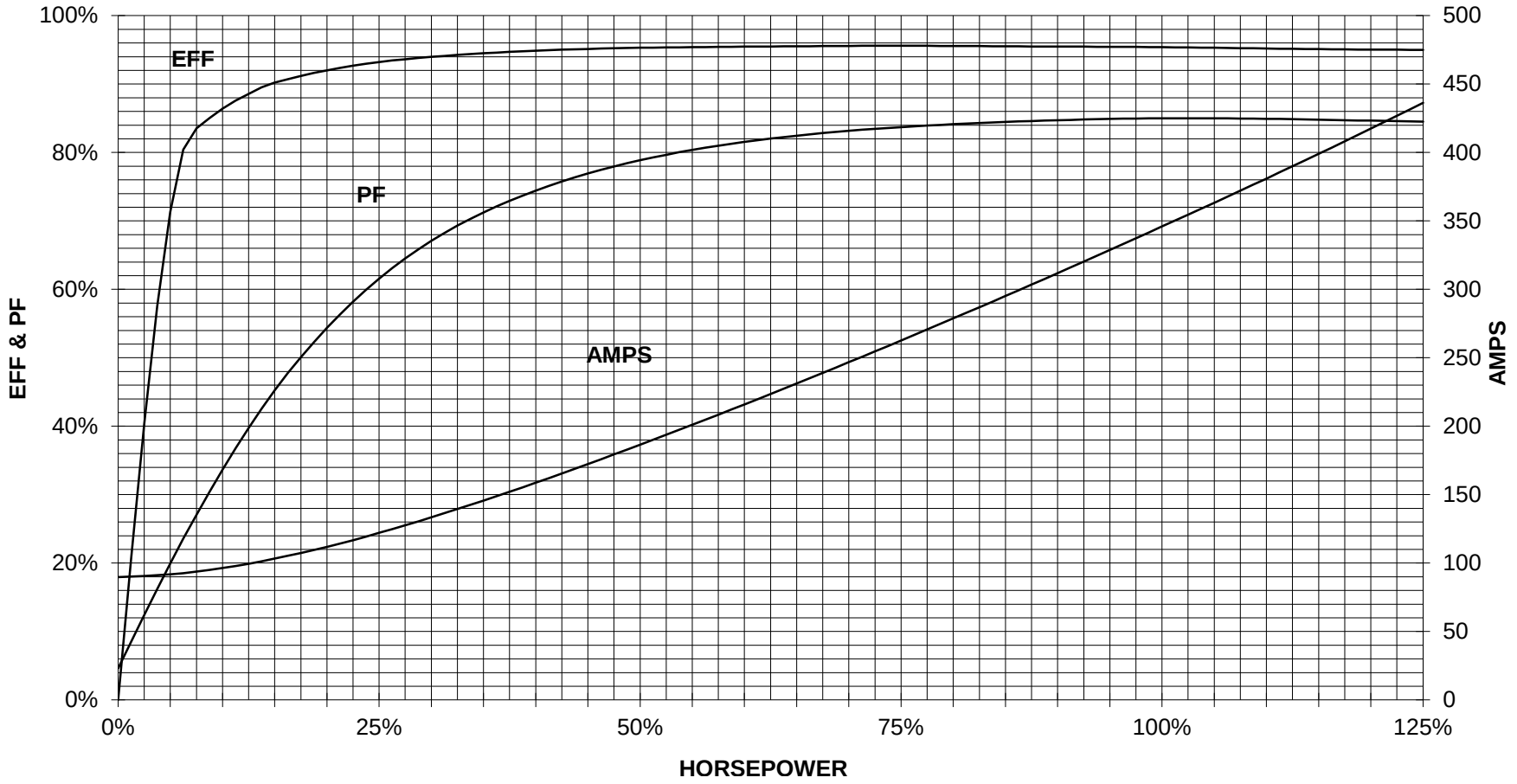
PERFORMANCE CURVE

SD100



CUSTOMER_____ ORDER #_____ PO #_____

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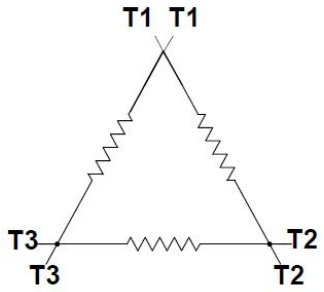
REV. 1

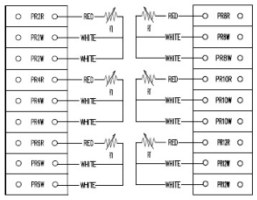
Main terminal diagram



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

Motor protection

3 WIRE STATOR RTDs



responsible dep.	technical reference	created by	approved by	Project			
DI MC LVM							
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