

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]					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	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)				Thickener				Polyurea											
Octave Band Center Frequencies Hertz								Safe Stall Time Hot								26 s							
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								Frame material				cast iron			
Ext Load Inertia Capability:								324.0 Lb ft²								Color, paint shade				2 Part Epoxy Pa...al Low Salt)			
Coating (paint finish)								2 Part Epoxy Paint (Industrial-Coastal Low Salt)								Ventilation Type							
Bearing DE NDE								NU 320				6315 ZZ C3 S0				Method of cooling				TEFC			
Bearing_Type								Roller Bearing				Ball Bearing				Direction of rotation				Bidirectional			
AFBMA:								100RU03M0				75BC03JPP30				Fan Material				Bronze			
Grease																VFD				CT: 4:1 VT: 20:1			
Capacity								14.50 oz				7.50 oz				Space heaters				without			
Grease Type:								Exxon Mobile EM								Brake:				without			

Terminal box

Lead Wire Connection					6 LEAD - DELTA					Terminal box position					(3) F-1, Standard Floor Mount, T. Box LHS				
Voltage	L1	L1	L1	Connected together						Material of terminal box					Cast Iron				
----	----	----	----	----						Cable entry					4" NPT				
----	T1	T2	T3	----															

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 _b /M _N = break down torque / nominal torque				

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and actual data before			
	document type datasheet			document status released		customer		
	title 1LE2321-4FC11-2AK3-Z			document number				
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

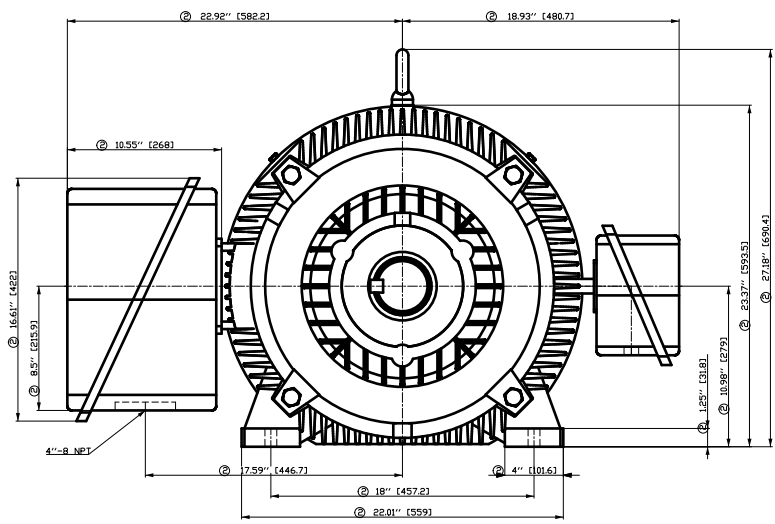
Motor type: SD100 FS: S449LS - 6p - 300 hp -

Special design

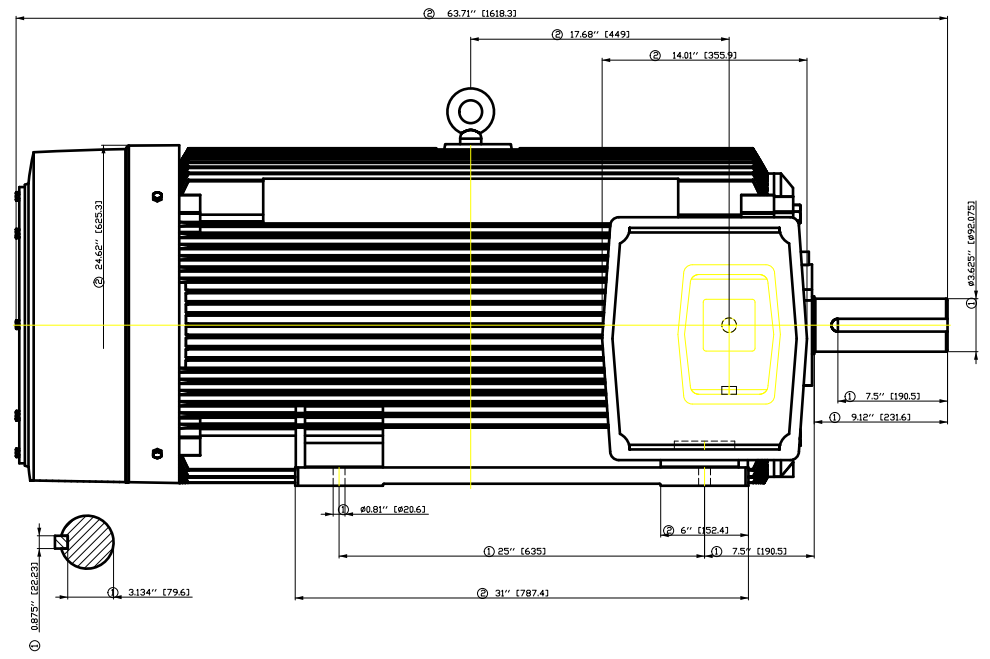
B09	Export packing sea freight - Siemens standard	N01	Paint - 2 part epoxy (Carboline or Ameron)
L60	Grease fitting - pressure relief		

Notes:

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- 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.

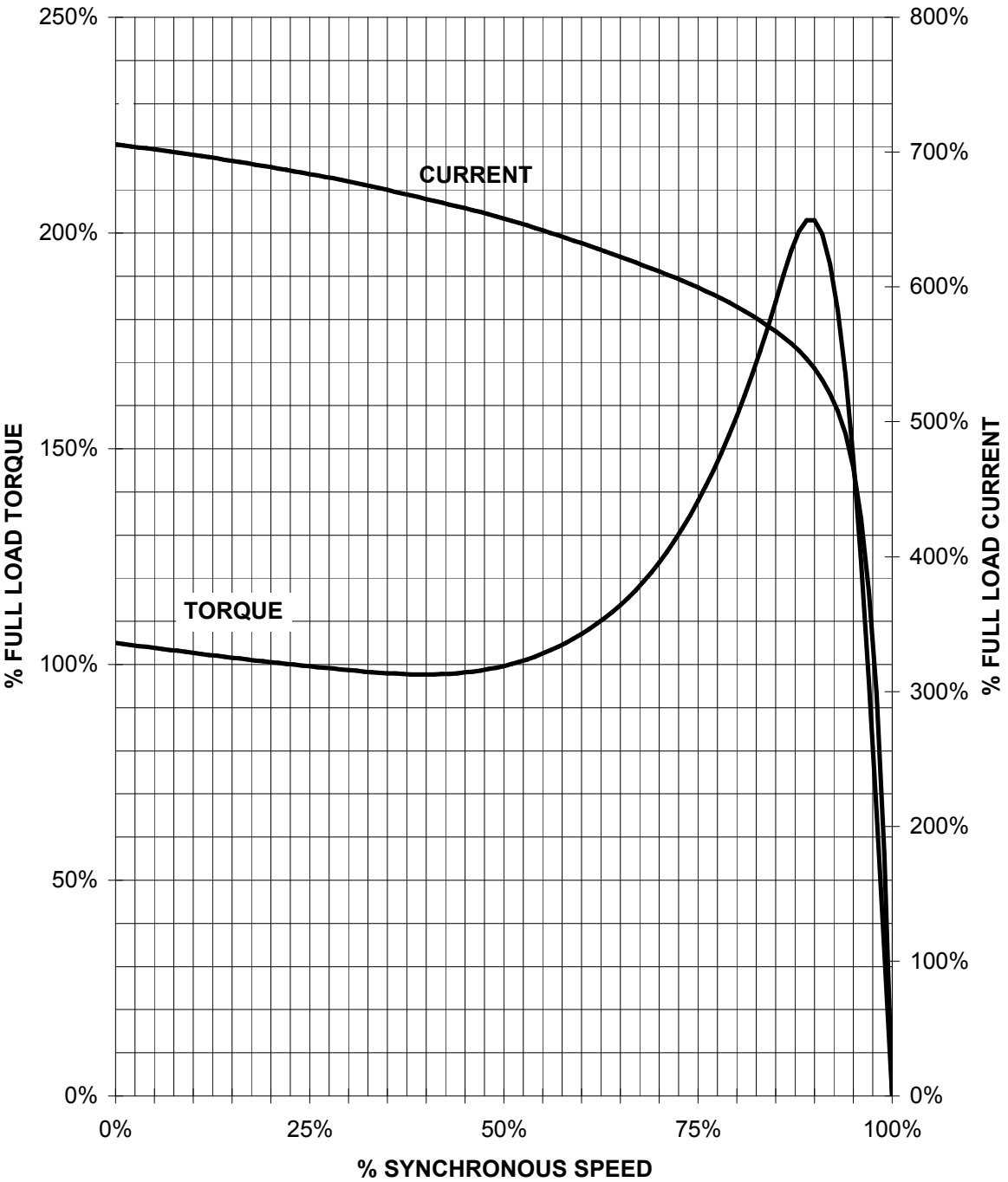


Tolerance	Surface	Material	Weight	Scale
1LE2321-4FC11-2AK3-Z B09+L60+N01	Author Creator Approval Department Change Order	Dimensional drawing Maßzeichnung		
SIEMENS	Doc. State	4/22/21	Item No	Paper Size
	Revision	Index	Doc No	1st Language
	Project No	-	Ref No	2nd Language
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				1 of 1

SIEMENS INDUSTRY, INC.

HP 300 VOLTS < 600V RPM 1200 TYPE SD100
HZ 60 PHASE 3 FRAME S449LS NEMA B

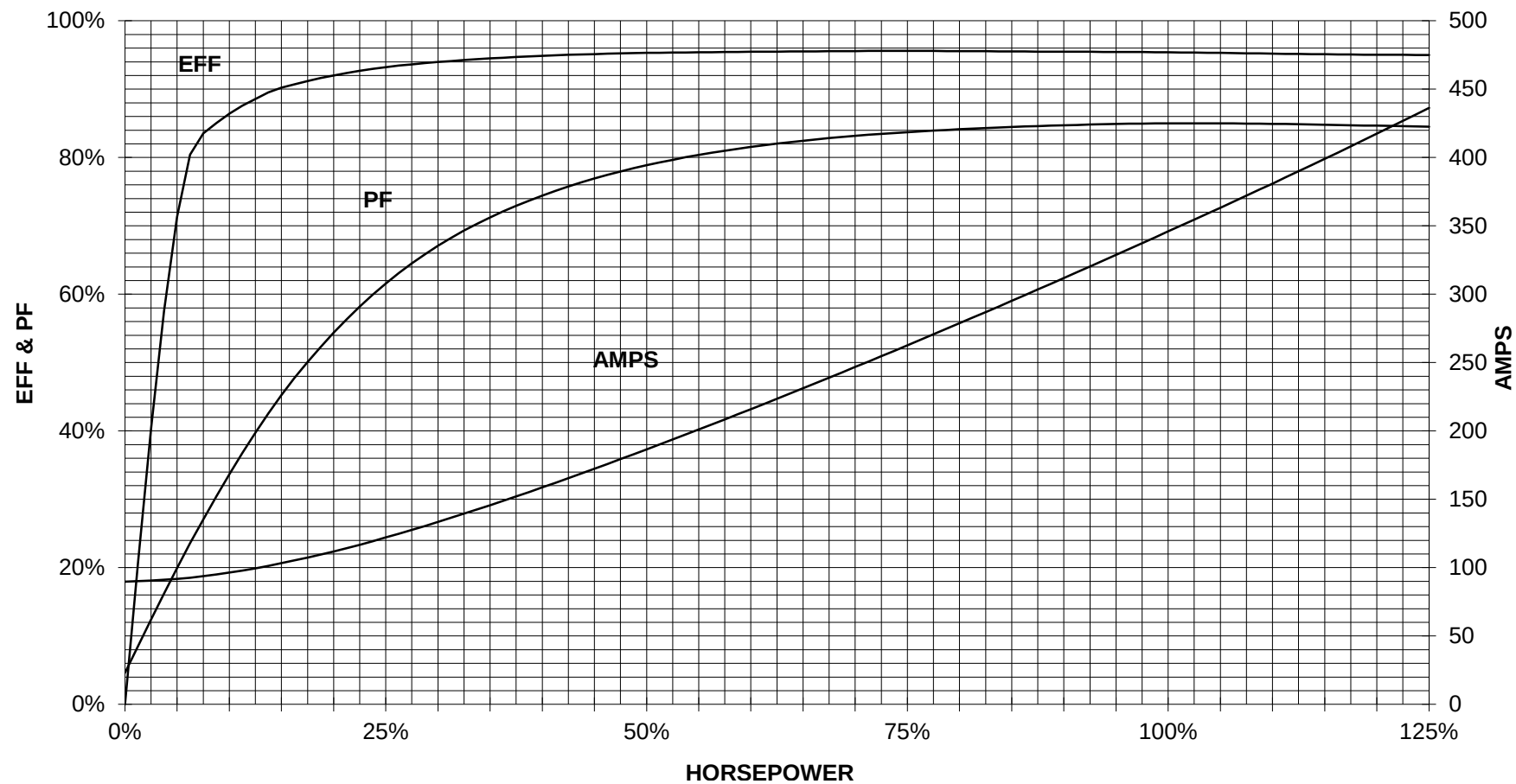
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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

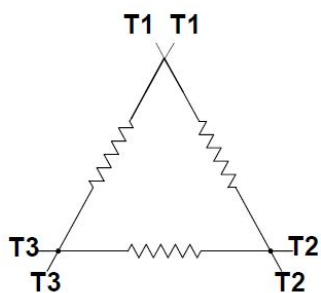
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100



CUSTOMER _____ ORDER # _____ PO # _____

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

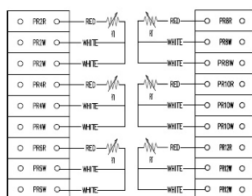
Main terminal diagram



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

Motor protection

3 WIRE STATOR RTDs



responsible dep.
DI MC LVM

technical reference

created by

approved by

Project

SIEMENS

document type
Wiring Diagram

title
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B09+L60+N01

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