

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

Motor type: SD100 IEEE **FS: S449SS - 4p - 400 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]					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	LRC	4/4	3/4	2/4	4/4	3/4	2/4			
460	Δ	60	400.00	300.00	1,785	454.00	346.90	253.30	130.00	2900.0	96.2	96.4	96.0	86.0	84.0	77.0	1176.0	100	200

Frame Type: S449SS	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.: Standard Class F Insulation	Motor Prot.: (A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT: 3,240		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	I.P.: 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	dB(A) / 0.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	21 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	26 s
SPL@3	0.0	0.0	0.0	0.0	0.0	0.0	dB(A)	Frame material	cast iron
Moment of inertia	0.0 Lb-ft ²							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	0.0 Lb ft ²							Coating (paint finish)	3 Part Epoxy Paint (Coastal-Offshore High Salt)
Bearings								Ventilation Type	
Bearing DE NDE	6315 ZZ C3 S0			6315 ZZ C3 S0				Method of cooling	TEFC
Bearing_Type	Ball Bearing			Ball Bearing				Direction of rotation	Unidirectional
AFBMA:	75BC03JPP30			75BC03JPP30				Fan Material	Polypropylen ESD
Grease								VFD	CT: VT:
Capacity	14.50 oz			7.50 oz				Space heaters	without
Grease Type:	Exxon Mobile EM							Brake:	without

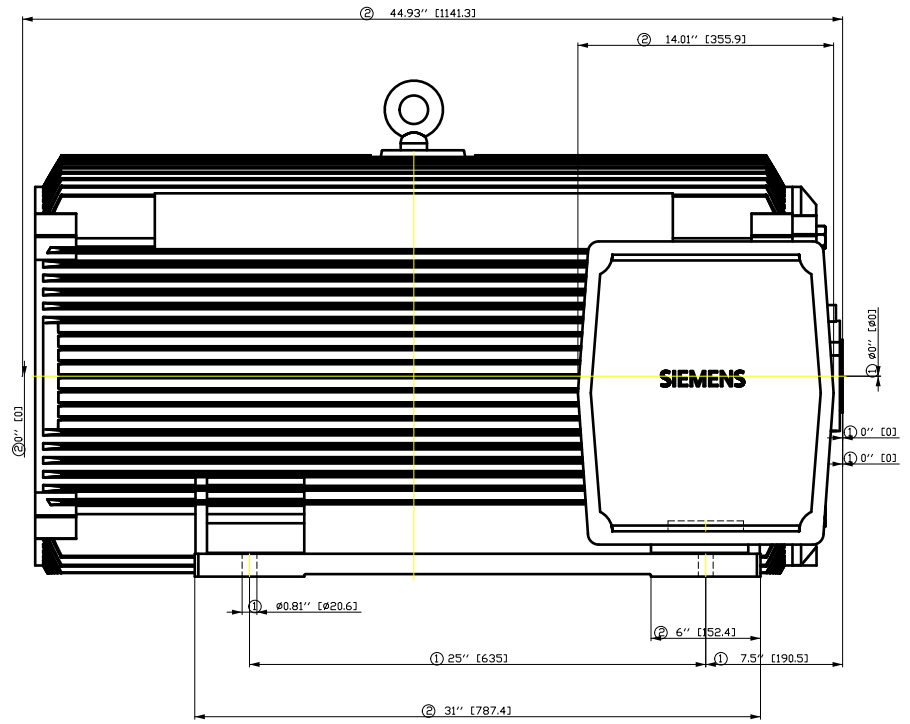
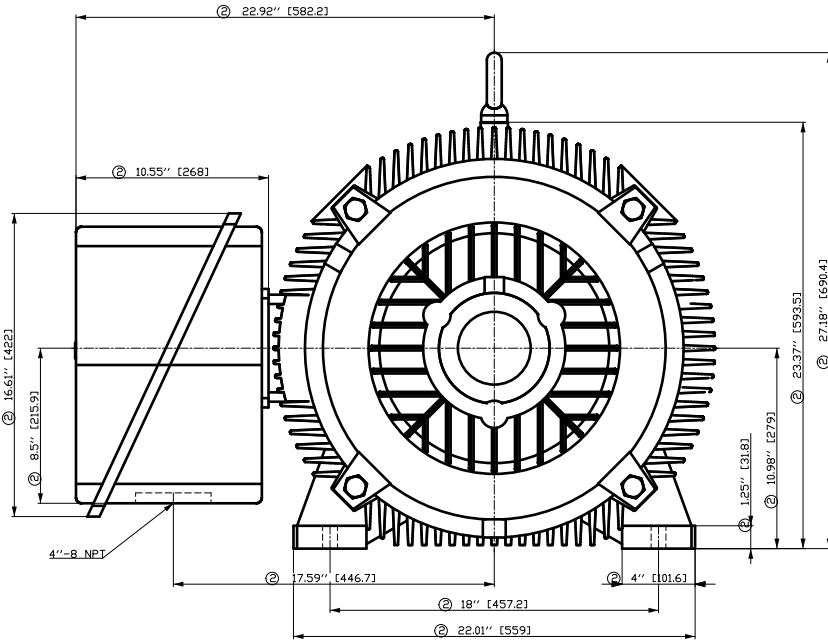
Terminal box

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
 M_L/M_N = locked rotor torque / torque nominal
 M_L/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 datasheet and motor nameplate</i>
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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
F50G GFB ÖÖ-FB00H E	Author Creator Approval Department Change Order	ÖS T a : ^ & @ } *	E	{ {
SIEMENS	Doc. State	MLFB	Doc Type	/
	Revision	Index	Paper Size	CH
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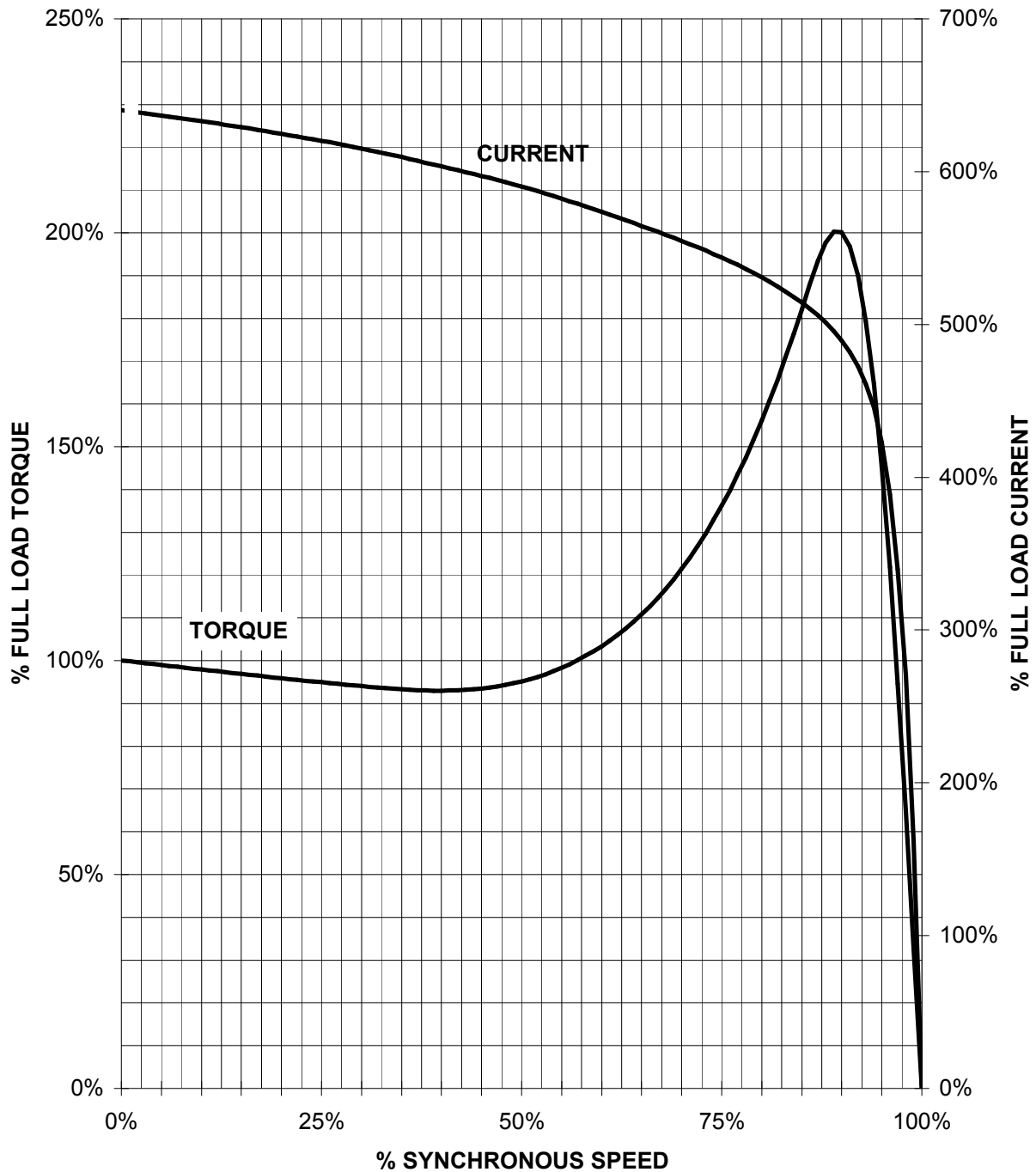
1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

SIEMENS INDUSTRY, INC.

HP 400 VOLTS < 600V RPM 1800 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME S449SS NEMA B

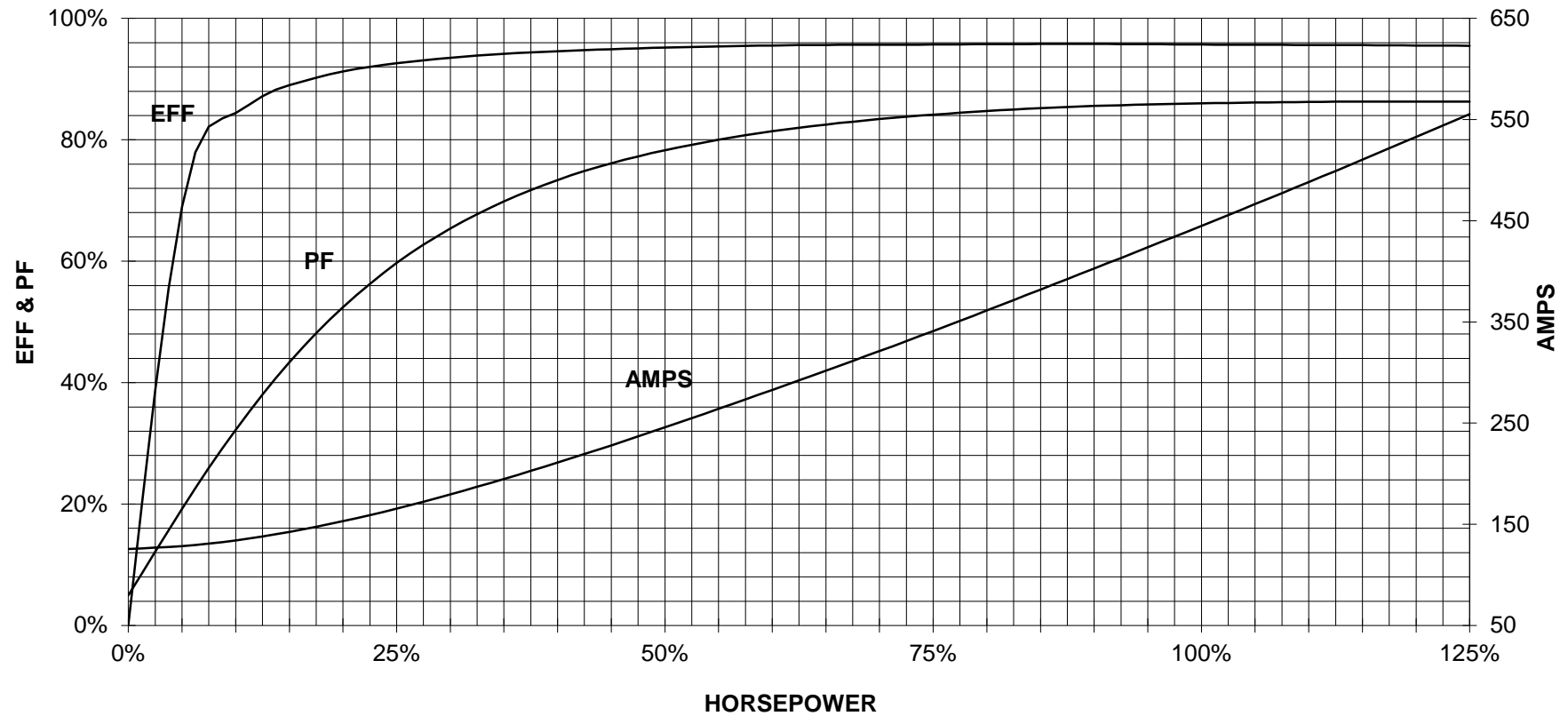
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

400 HP 1800 RPM S449SS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

**SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100 IEEE841**

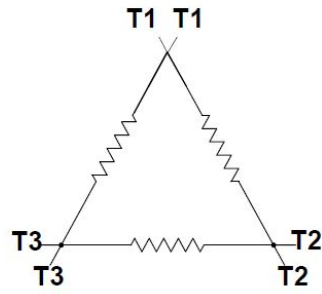


CUSTOMER: _____ ORDER #: _____


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

REV. 1

Main terminal diagram



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

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