

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

Motor type: FS: 445T - 6p - 125 hp -

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	project

Remarks

Electrical data

Class I Division 1 Groups 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	T _k /T _N
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4	LRT [%]		BDT [%]	
460		60	125.00	-/-	1,185	144.00	112.20	83.20	48.00	908.0	95.0	95.4	95.1	85.0	82.0	74.0	554.0	160	200	
Frame Type: 445T			Type of constr.: (A) Foot mounted - End shield							Ins. Cl.:Insulation class F		Motor Prot.:(A) No winding protection					NEMA Des.: B		S.F.: 1.15	
Mtr. WT:1,771										Temp. Rise Cl.: B		Amb. Temp.: + to -20 °C @1000 m					kVA: G		I.P.: IP65	

Mechanical data


Sound level (SPL / SWL) at 60 Hz							75.0 dB(A) / 86.0 dB(A)		Thickener		Polyurea							
Octave Band Center Frequencies Hertz									Safe Stall Time Hot			25 s						
250		500		1000		2000		4000		8000		Hz	Safe Stall Time Cold		35 s			
SPL@3									dB(A)					Frame material			cast iron	
Moment of inertia									58.5 Lb-ft²					Color, paint shade				
Ext Load Inertia Capability:									1450.0 Lb ft²					Coating (paint finish)				
Bearings															Ventilation Type			
Bearing DE NDE							NU 318			6316 Z C3 S0					Method of cooling			TEFC
Bearing_Type							Roller Bearing			Ball Bearing					Direction of rotation			Bidirectional
AFBMA:							90RU03M0			80BC03JP30					Fan Material			Polypropylen ESD
Grease															VFD		CT: 4:1 VT: 20:1	
Capacity							14.50 oz			7.50 oz					Space heaters			without
Grease Type:							Exxon Mobile EM								Brake:			-/-

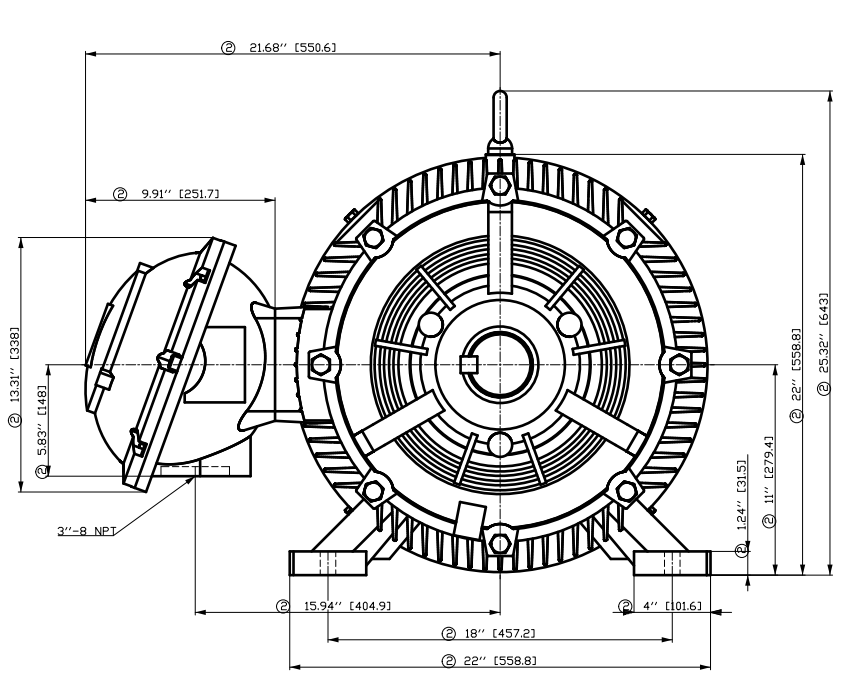
Terminal box

Lead Wire Connection					6 LEAD - DELTA		Terminal box position	(3) Mounting - F-1
Voltage	L1	L1	L1	Connected together				Material of terminal box
---	---	---	---	---				Cable entry
---	T1	T2	T3	---				-/-

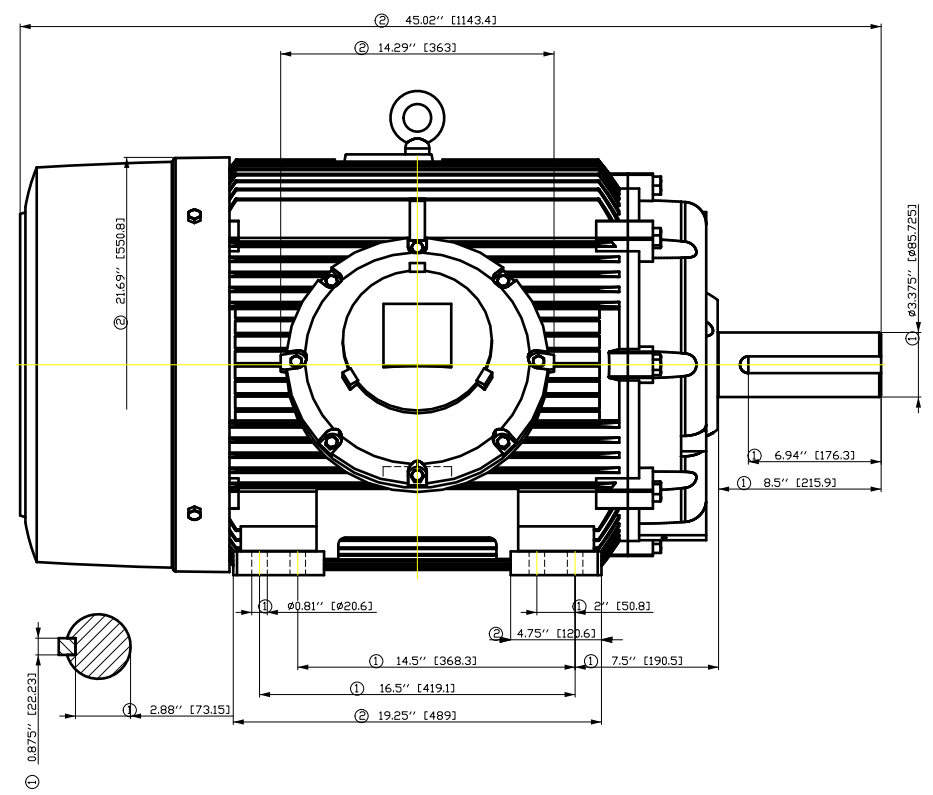
Notes:

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			
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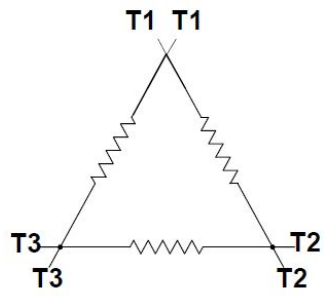


- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.



Tolerance	Surface	Material	Weight	Scale
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Ë	Creator			
	Approval			
	Department			
	Change Order	MLFB		Doc Type
SIEMENS	Doc. State	FCBÖÖE	Item No	Paper Size
	Revision	Index RS	Doc No	1st Language
				2nd Language
© Siemens AG 2018	Project No	Ë	Ref No	Ë
				Sheet F of F

Main terminal diagram



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

responsible dep.
DI MC LVM

technical reference

created by

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project

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document type
Wiring Diagram

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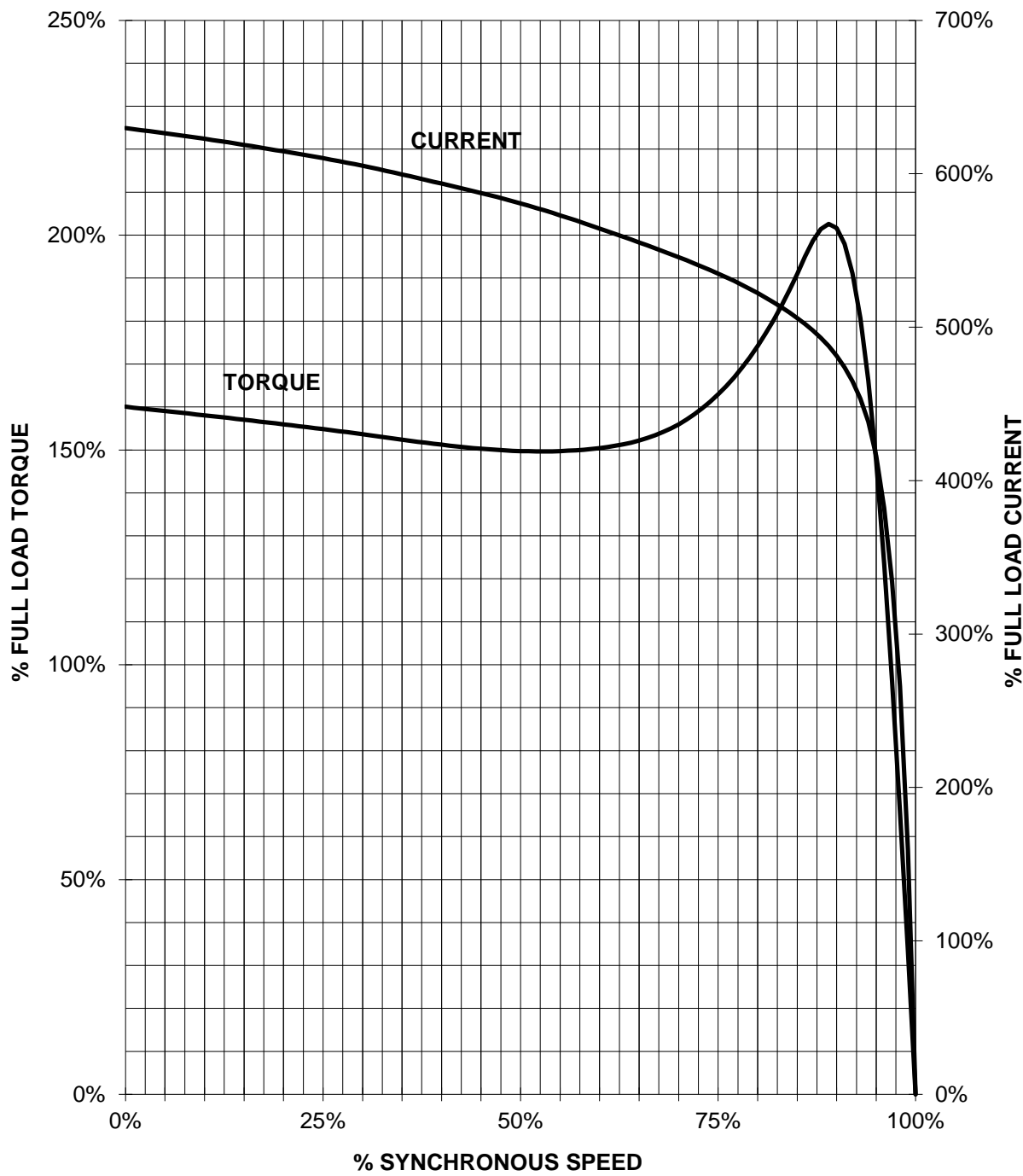
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SIEMENS INDUSTRY, INC.

HP 125 VOLTS <600 RPM 1200 TYPE XP100 1D1
HZ 60 PHASE 3 FRAME 445T NEMA B

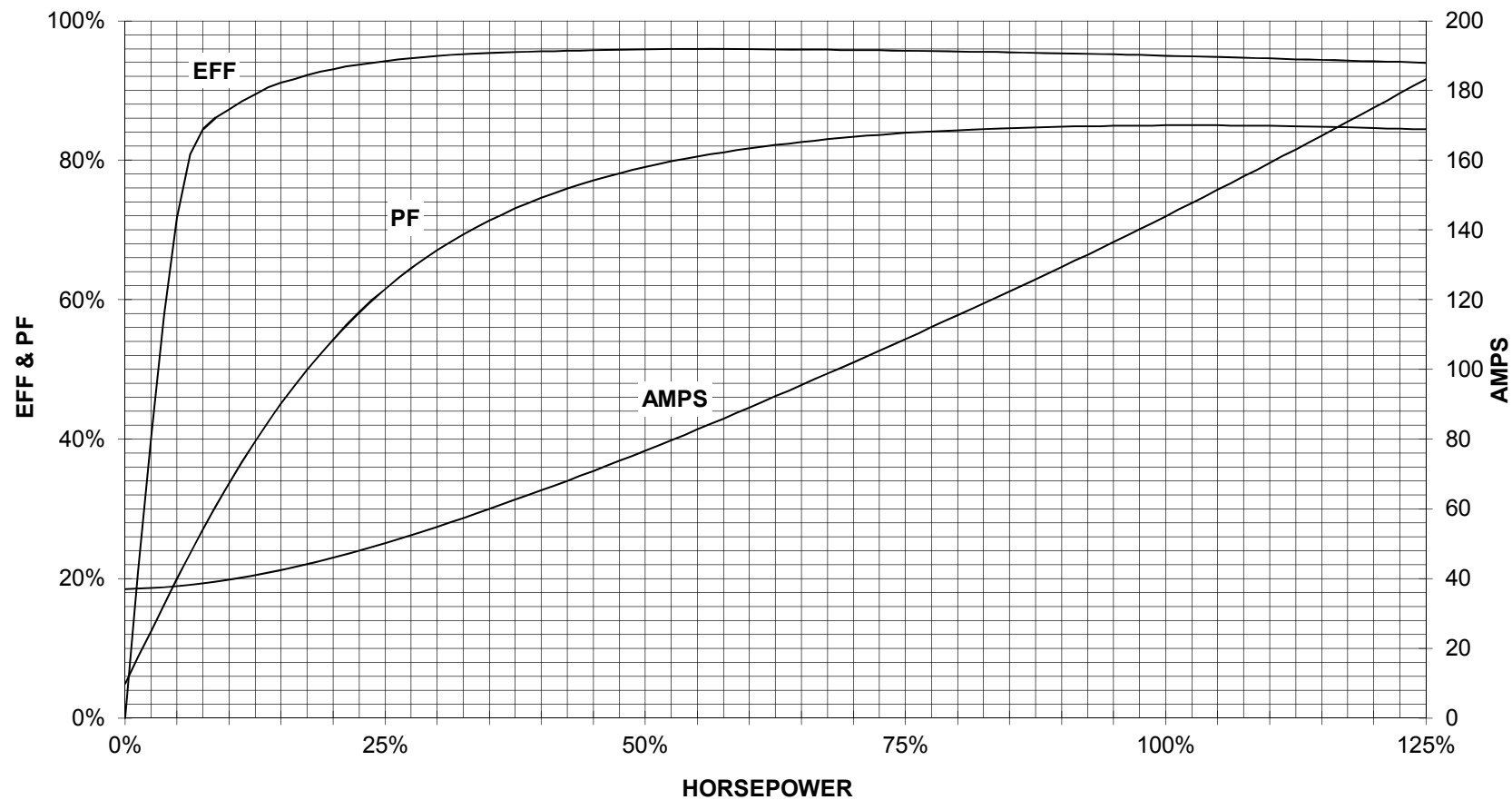
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

125 HP 1200 RPM 445T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
XP100 1D1



CUSTOMER _____ ORDER # _____ PO # _____

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

REV. 1