

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

Motor type: FS: 445TS - 4p - 150 hp -

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Electrical data Class I, Div 1 Gr. C&D; Class II, Div1, Gr. F&G

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			
575		60	150.00	-/-	1,785	136.00	104.50	75.30	41.60	868.0	95.8	96.0	95.7	86.0	84.0	78.0	441.0	150	200
Frame Type: 445TS		Type of constr.: (A) Foot mounted - End shield				Ins. Cl.:Insulation class F		Motor Prot.:(G) Thermostats, Klixon type, normally closed				NEMA Des.: B		S.F.: 1.15					
Mtr. WT.:1,706						Temp. Rise Cl.: B		Amb. Temp.: + to -20 °C @1000 m				kVA: G		IP IP65					


Mechanical data

Sound level (SPL / SWL) at 60 Hz	73.0 dB(A) / 84.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	20 s
250	500	1000	2000
4000	8000	Hz	
SPL@3	dB(A)		Safe Stall Time Cold
		30 s	
		Frame material	cast iron
Moment of inertia	44.7 Lb-ft ²	Color, paint shade	
Ext Load Inertia Capability:	640.0 Lb ft ²	Coating (paint finish)	
Bearings		Ventilation Type	
Bearing DE NDE	6316 Z C3 S0	6316 Z C3 S0	Method of cooling
Bearing_Type	Ball Bearing	Ball Bearing	TEFC
AFBMA:	80BC03JP30	80BC03JP30	Direction of rotation
Grease		Polypropylen ESD	
Capacity	7.5 oz	7.5 oz	VFD
Grease Type:	Exxon Mobile EM		CT: n/a VT: 20:1
		Space heaters	without
		Brake:	-/-

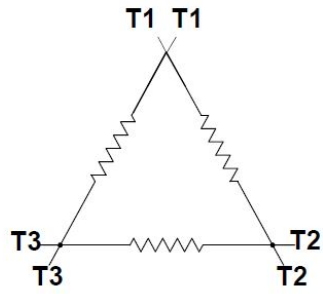
Terminal box

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	-/-

Notes:			
I _r /I _N = locked rotor current / current nominal	M _r /M _N = locked rotor torque / torque nominal	M _b /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 software and hardware versions</i>			
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Main terminal diagram



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

Motor protection

THERMOSTATS



responsible dep.
DI MC LVM

technical reference

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Project

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document type
Wiring Diagram

title
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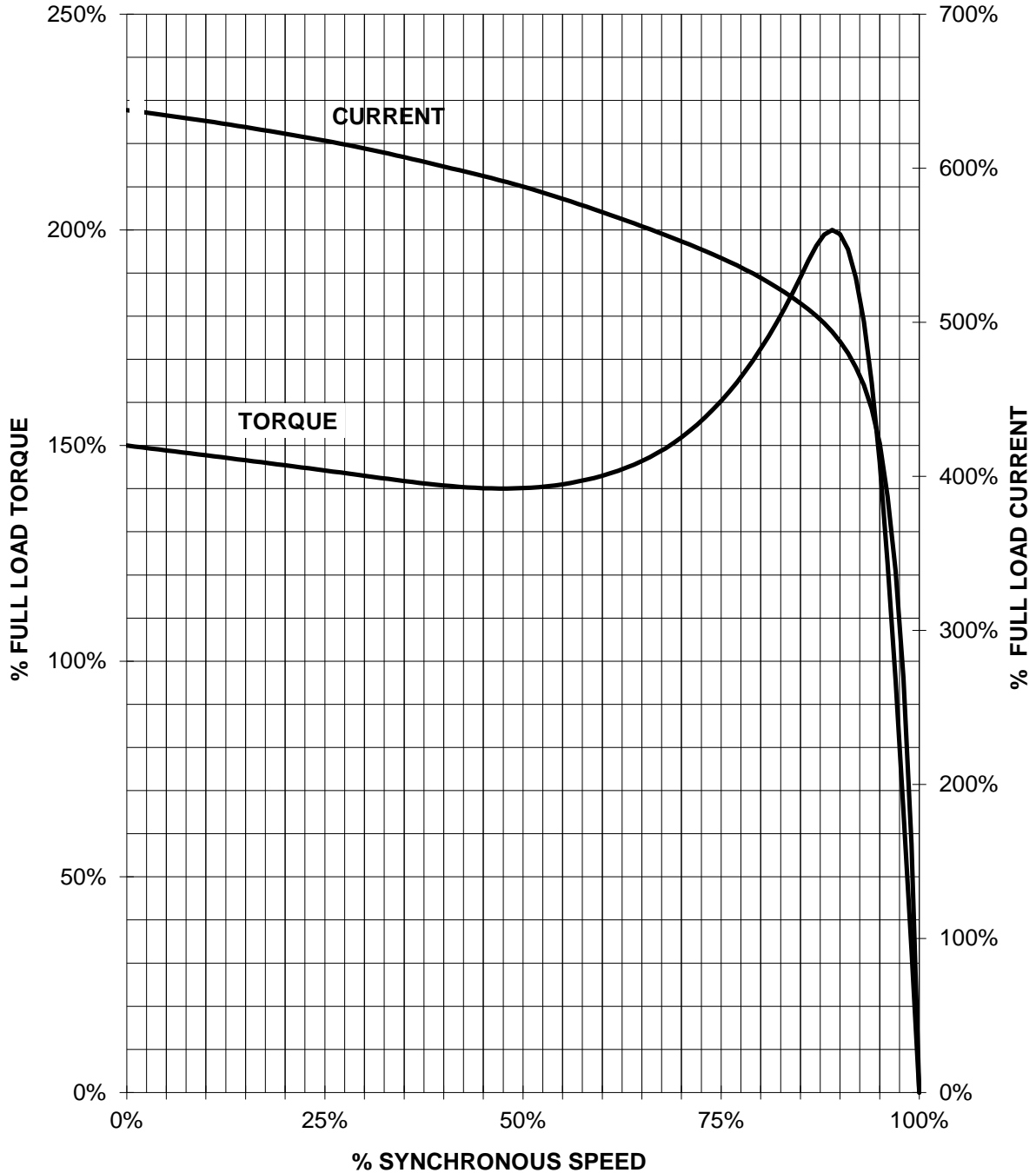
document number

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SIEMENS INDUSTRY, INC.

HP 150 VOLTS <600 RPM 1800 TYPE XP100
HZ 60 PHASE 3 FRAME 445TS NEMA B

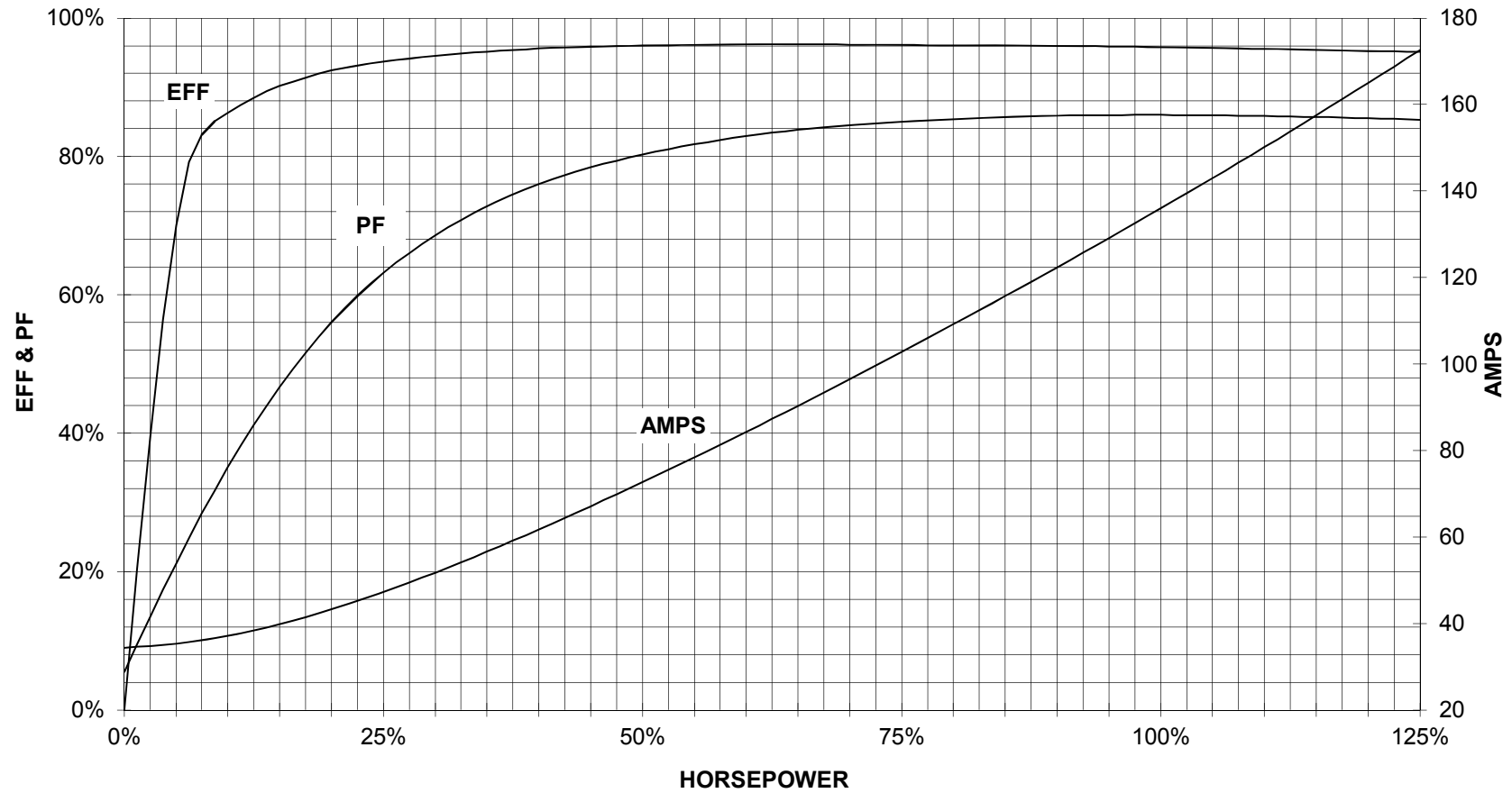
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

150 HP 1800 RPM 445TS FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
XP100



CUSTOMER: _____ ORDER #: _____

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

REV. 1