

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

Motor type: FS: 145T - 4p - 2 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 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				
575		60	2.00	-/-	1,740	2.20	1.80	1.50	1.20	19.2	86.5	87.2	86.0	77.3	70.8	57.8	6.0	322	393	

Frame Type: 145T	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:88		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: L	IP IP65

Mechanical data


Sound level (SPL / SWL) at 60 Hz	50.0 dB(A) / 62.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz	250 500 1000 2000 4000 8000 Hz	Safe Stall Time Hot	14 s
SPL@3		Safe Stall Time Cold	22 s
Moment of inertia	0.2 Lb-ft ²	Frame material	cast iron
Ext Load Inertia Capability:	11.0 Lb ft ²	Color, paint shade	
Bearings		Coating (paint finish)	
Bearing DE NDE	6205 Z C3 S0 6205 Z C3 S0	Ventilation Type	
Bearing_Type	Ball Bearing Ball Bearing	Method of cooling	TEFC
AFBMA:	25BC02JP30 25BC02JP30	Direction of rotation	Bidirectional
Grease		Fan Material	Polypropylen ESD
Capacity	0.1 oz 0.1 oz	VFD	CT: 4:1 VT: 20:1
Grease Type:	Exxon Mobile EM	Space heaters	without
		Brake:	-/-

Terminal box

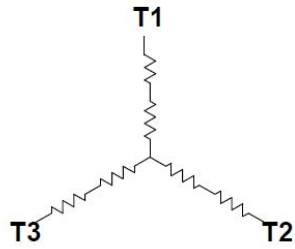
Lead Wire Connection	3 LEAD - WYE	Terminal box position	(3) Mounting - F-1
Voltage	L1 L1 L1 Connected together	Material of terminal box	
----	----	Cable entry	-/-
----	T1 T2 T3		

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.	technical reference	created by	approved by	<i>Technical data are subject to change! There may be discrepancies between software and printed data sheets</i>
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
	title	document number		
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Main terminal diagram



3 LEAD WYE			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Y

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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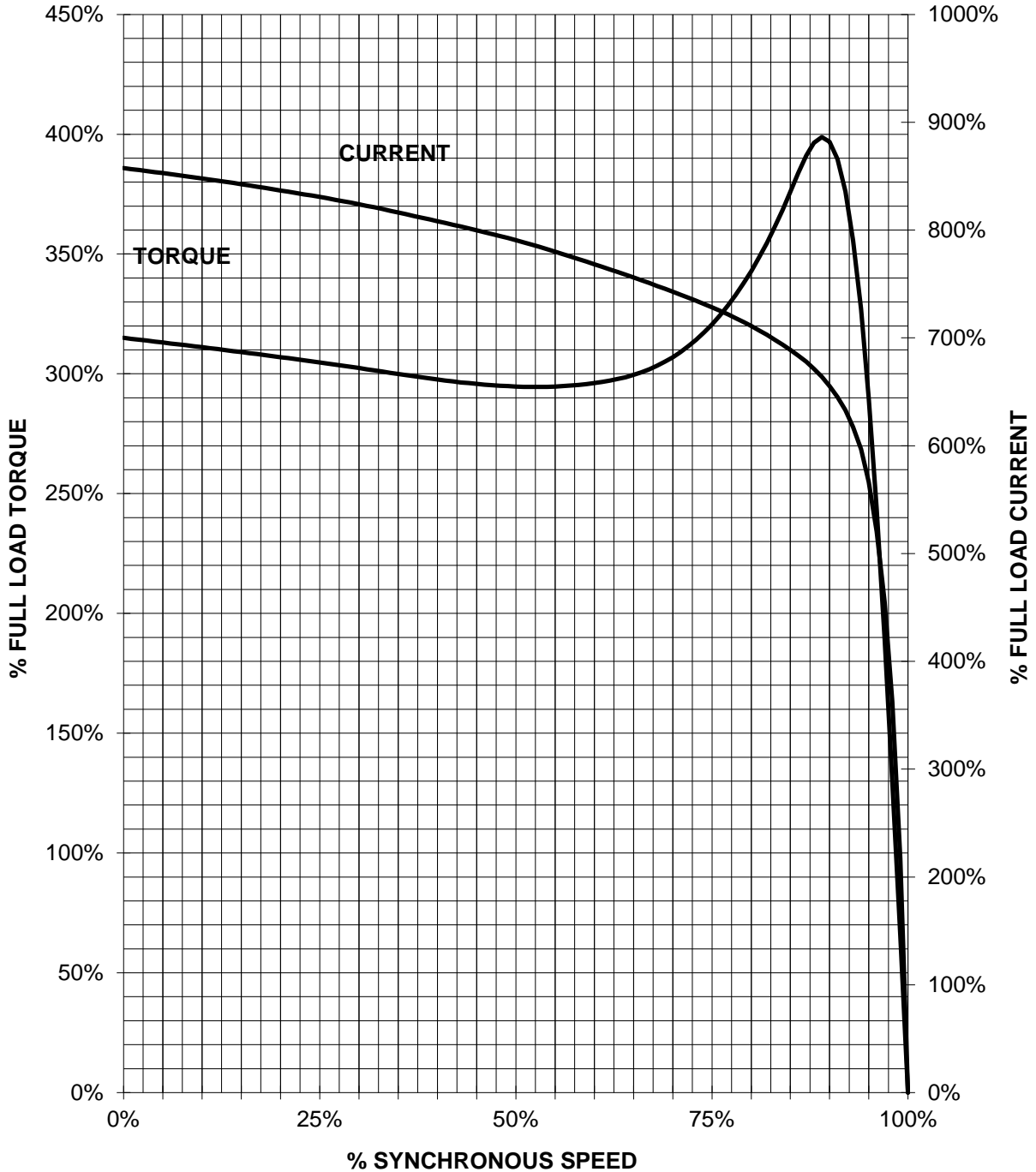
document number

customer

SIEMENS INDUSTRY, INC.

HP 2 VOLTS <600 RPM 1800 TYPE XP100 1D1
HZ 60 PHASE 3 FRAME 145T NEMA B

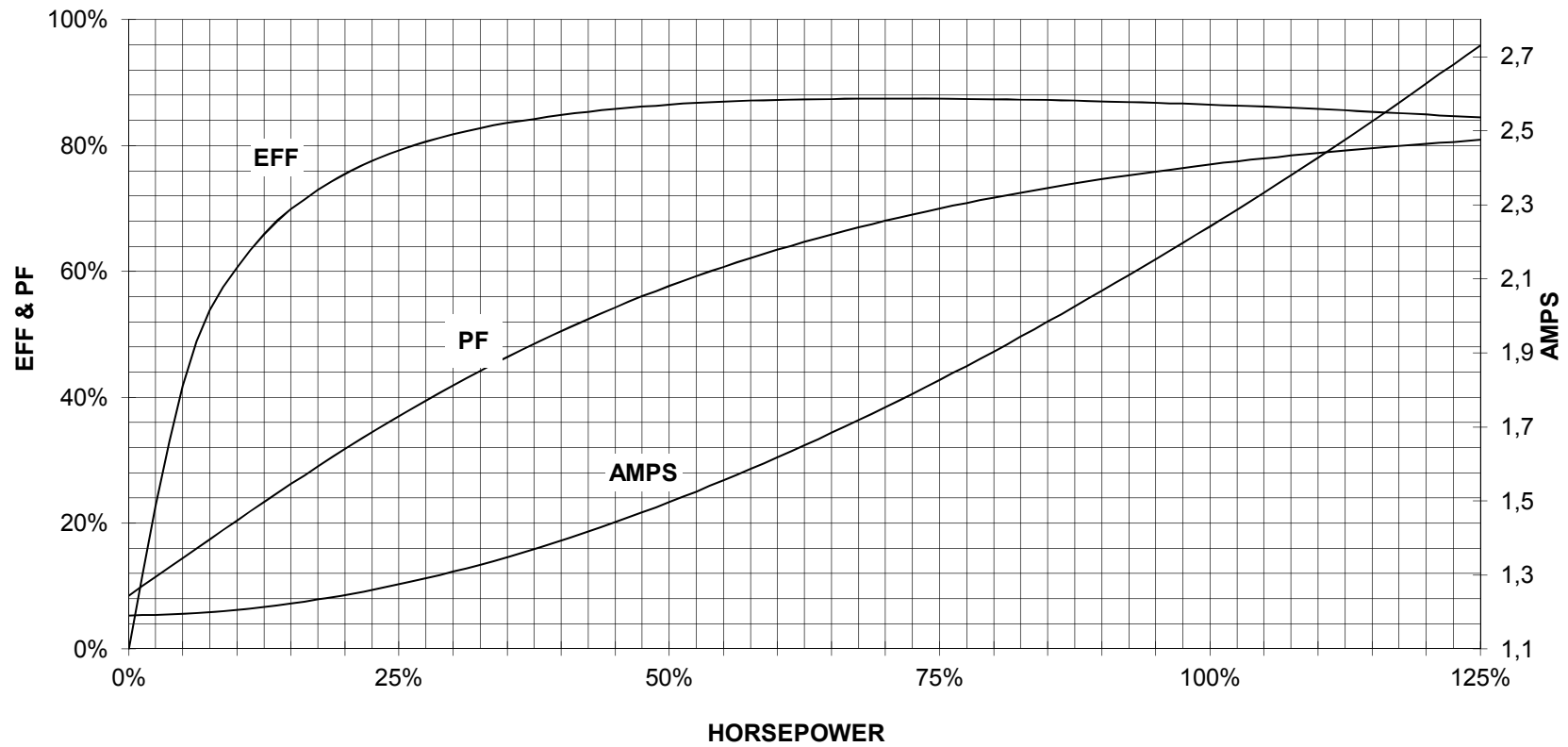
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

2 HP 1800 RPM 145T FRAME 575 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