

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

Motor type: FS: 284T - 4p - 25 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	25.00	-/-	1,775	24.00	18.70	14.10	8.80	146.4	93.6	94.0	93.5	84.0	80.0	71.0	74.0	180	250	

Frame Type: 284T	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:460		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65

Mechanical data


Sound level (SPL / SWL) at 60 Hz	65.0 dB(A) / 76.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz	250 500 1000 2000 4000 8000 Hz	Safe Stall Time Hot	24 s
SPL@3	dB(A)	Safe Stall Time Cold	44 s
Moment of inertia	4.4 Lb-ft ²	Frame material	cast iron
Ext Load Inertia Capability:	122.0 Lb ft ²	Color, paint shade	
Bearings		Coating (paint finish)	
Bearing DE NDE	6310 Z C3 S0 6310 Z C3 S0	Ventilation Type	
Bearing_Type	Ball Bearing Ball Bearing	Method of cooling	TEFC
AFBMA:	50BC03JP30 50BC03JP30	Direction of rotation	Bidirectional
Grease		Fan Material	Polypropylen ESD
Capacity	2.6 oz 2.6 oz	VFD	CT: 4:1 VT: 20:1
Grease Type:	Exxon Mobile EM	Space heaters	without
		Brake:	-/-

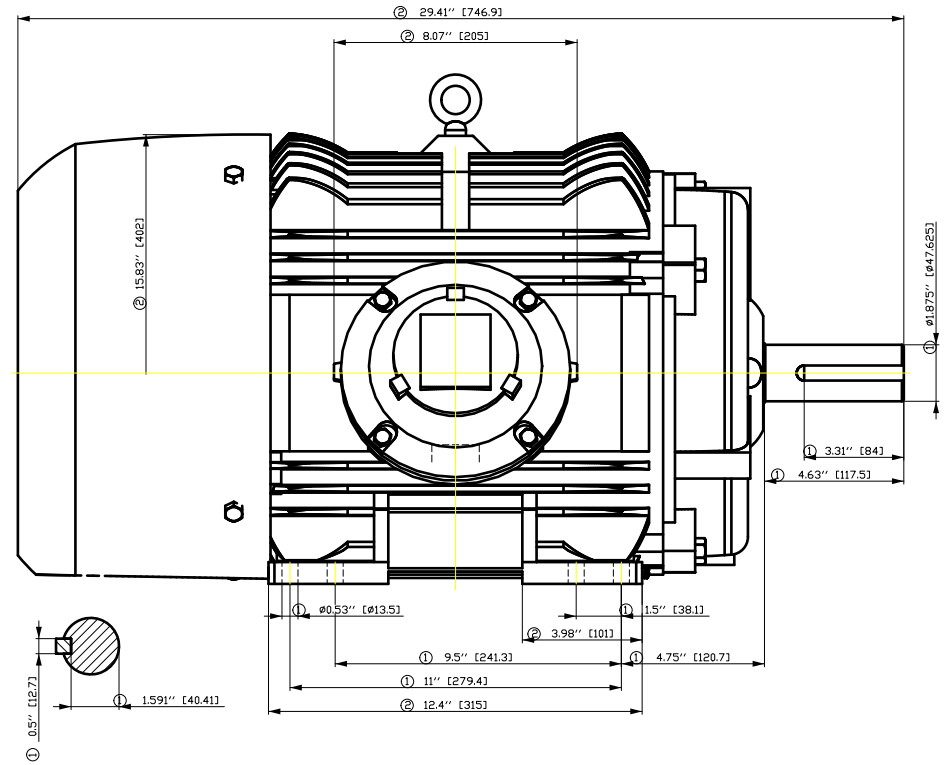
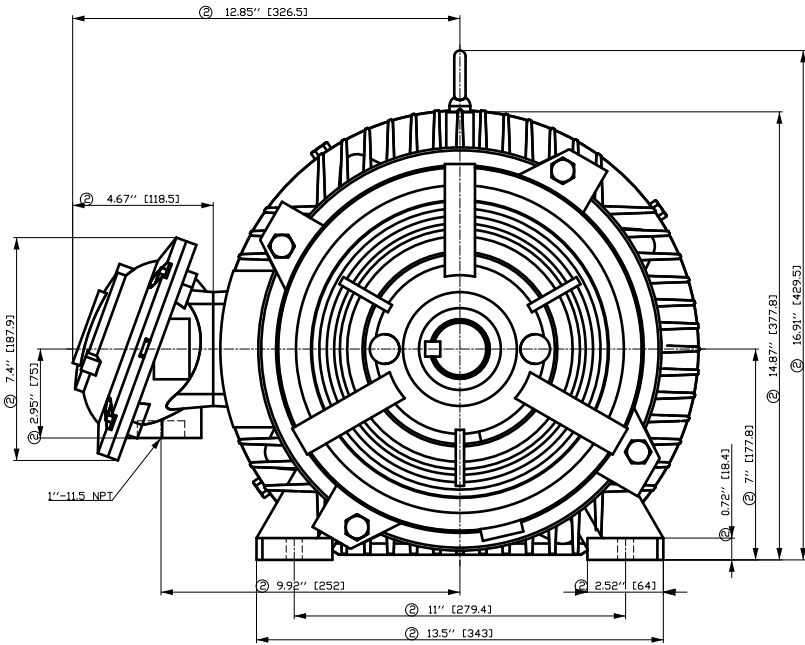
Terminal box

Lead Wire Connection	3 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_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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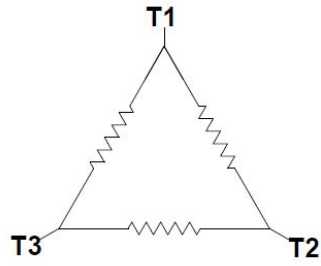


- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.


Tolerance	Surface	Material	Weight	Scale	
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É	Creator				ÖVS
	Approval				
	Department				
	Change Order	MFB		Doc Type	
SIEMENS	Doc. State	I ð EGG	Item No	Paper Size	
	Revision	Index RS	Doc No	1st Language	
© Siemens AG	Project No	É	Ref No	É	

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 1 2 3 4 5 6 7 8
 A B C D E F

Main terminal diagram



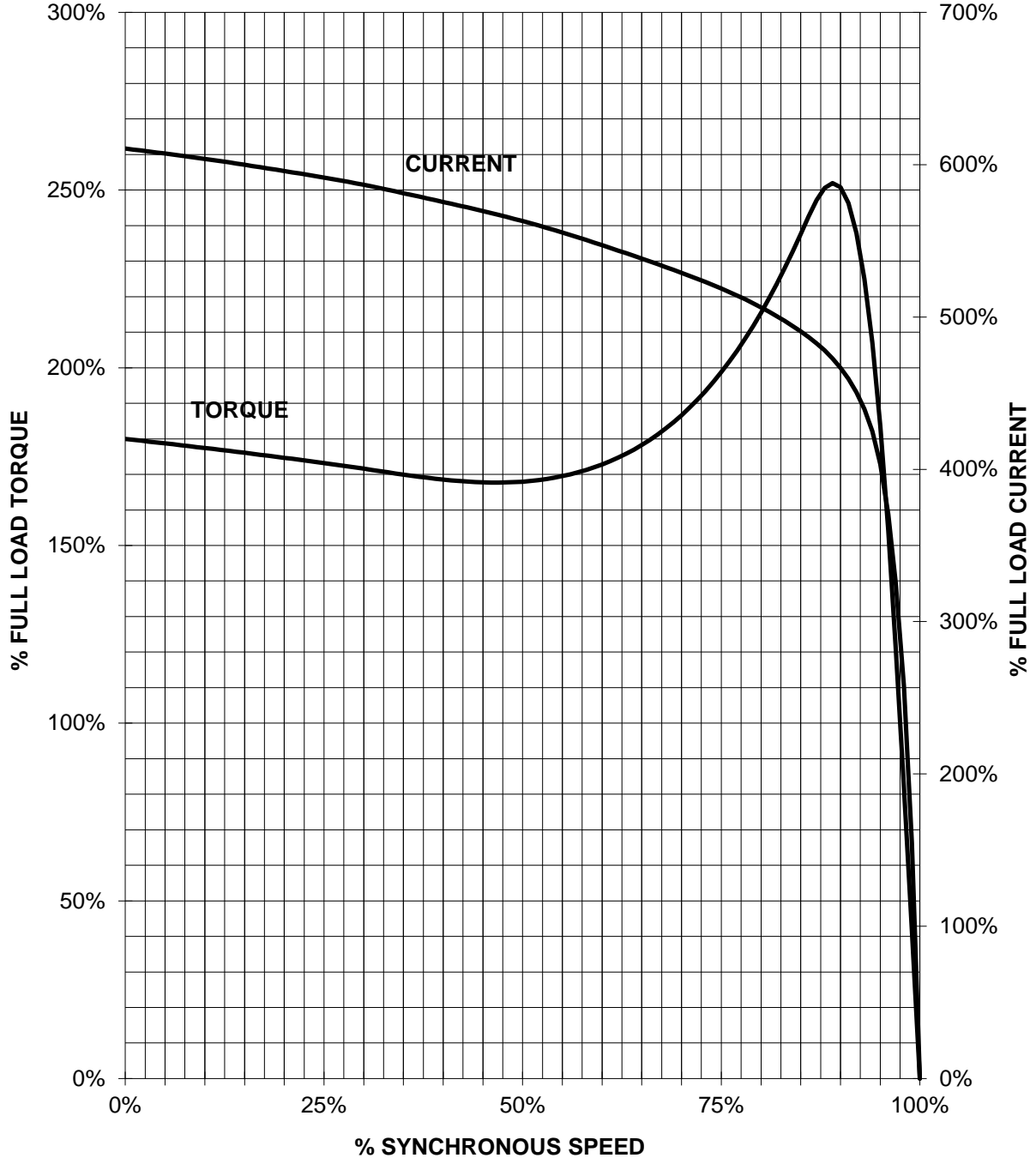
3 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	Project		
	document type Wiring Diagram		document status free		customer	
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SIEMENS INDUSTRY, INC.

HP 25 VOLTS <600 RPM 1800 TYPE XP100 1D1
HZ 60 PHASE 3 FRAME 284T NEMA B

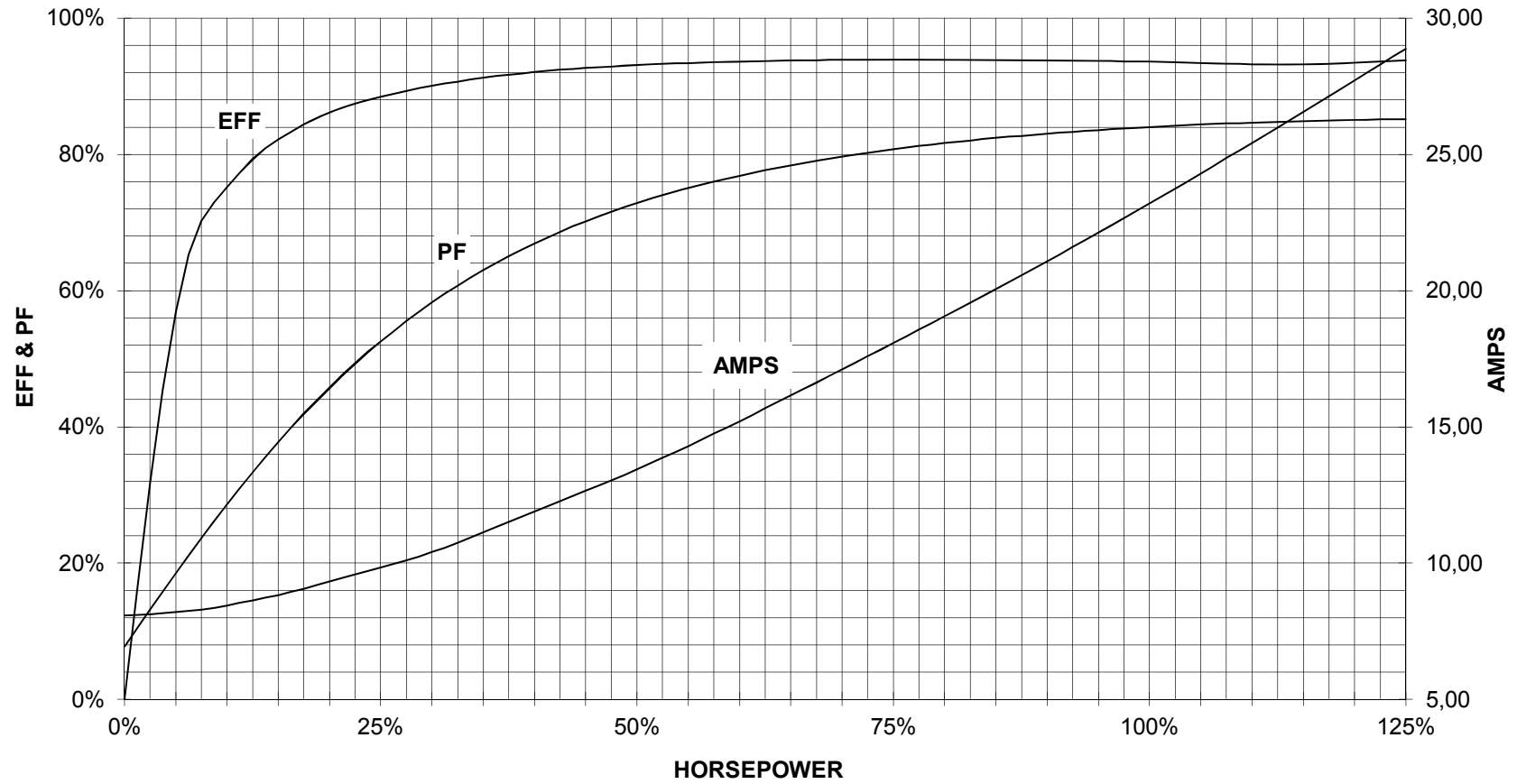
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

25 HP 1800 RPM 284T FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
XP100 1D1



CUSTOMER: _____ ORDER #: _____

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

REV. 1