

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

**Motor type:** FS: 444TS - 2p - 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]	$\Delta/Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T <sub>A</sub> /T <sub>N</sub> LRT [%]	T <sub>k</sub> /T <sub>N</sub> BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460		60	125.00	-/-	3,575	138.00	104.90	73.70	32.00	908.0	95.0	95.1	94.5	89.0	88.0	84.0	184.0	120	200	

Frame Type: 444TS	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:1,450		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	79.0 dB(A) / 90.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	18 s
250	500	1000	2000
4000	8000	Hz	
SPL@3		Safe Stall Time Cold	23 s
		dB(A)	
Moment of inertia	20.9 Lb-ft <sup>2</sup>	Frame material	cast iron
Ext Load Inertia Capability:	113.0 Lb ft <sup>2</sup>	Color, paint shade	
<b>Bearings</b>		Coating (paint finish)	
Bearing DE   NDE	6316 Z C3 S0	<b>Ventilation Type</b>	
Bearing_Type	Ball Bearing	Method of cooling	TEFC
AFBMA:	80BC03JP30	Direction of rotation	Bidirectional
<b>Grease</b>		Fan Material	Polypropylen ESD
Capacity	7.50 oz	VFD	CT: 4:1 VT: 20:1
Grease Type:	Exxon Mobile EM	Space heaters	without
		Brake:	-/-

**Terminal box**

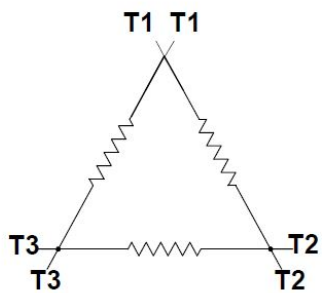
Lead Wire Connection	6 LEAD - DELTA	Terminal box position	(3) Mounting - F-1
Voltage	L1 L1 L1 Connected together	Material of terminal box	
----	----	Cable entry	-/-
----	T1 T2 T3		

<b>Notes:</b>			
I <sub>r</sub> /I <sub>N</sub> = locked rotor current / current nominal	M <sub>r</sub> /M <sub>N</sub> = locked rotor torque / torque nominal	M <sub>b</sub> /M <sub>N</sub> = 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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	title 1MB2221-4DA11-2AA3	document number					
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Main terminal diagram



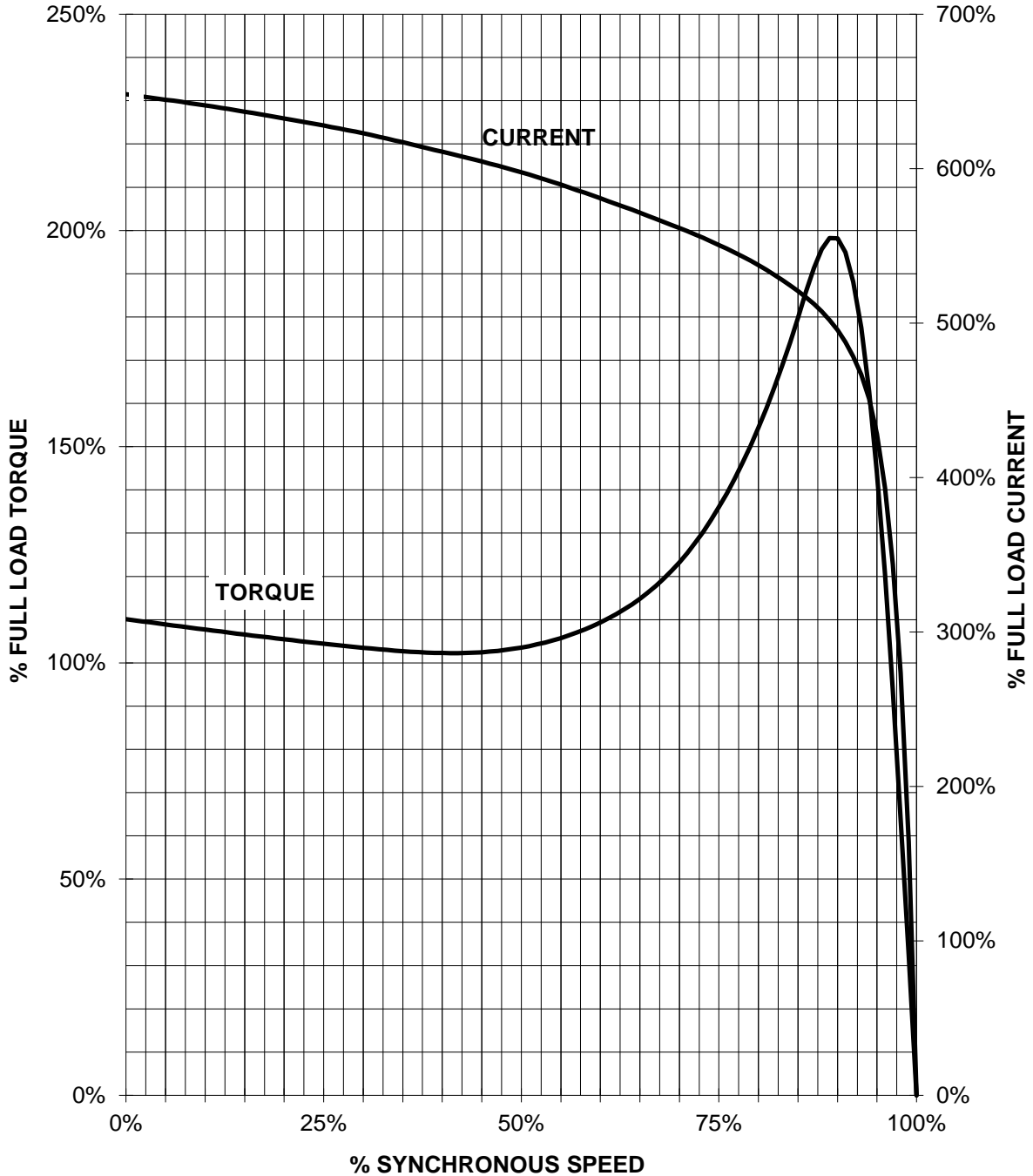
6 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	project
<b>SIEMENS</b>	document type Wiring Diagram	document status free		customer
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# SIEMENS INDUSTRY, INC.

HP 125    VOLTS <600    RPM 3600    TYPE XP100 1D1  
HZ 60    PHASE 3    FRAME 444TS    NEMA B

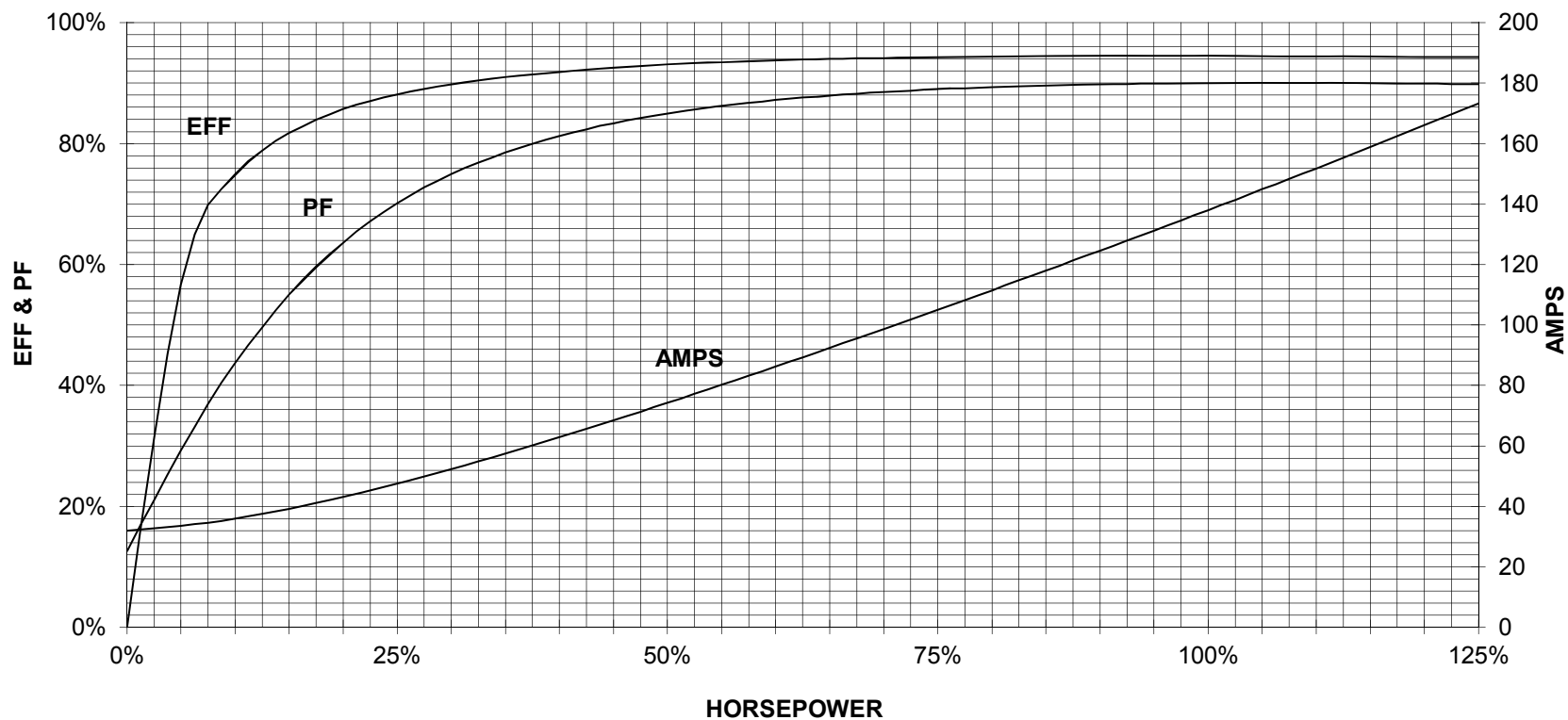
## TORQUE & CURRENT VS. SPEED



CUSTOMER: \_\_\_\_\_ ORDER#: \_\_\_\_\_

125 HP 3600 RPM 444TS 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