

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

**Motor type:** FS: 254T - 4p - 15 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]	$\Delta/Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					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	LRC	4/4	3/4	2/4	4/4	3/4	2/4			
575		60	15.00	-/-	1,770	15.20	12.20	9.40	6.80	92.8	92.4	92.8	92.3	80.0	74.7	64.5	44.0	184	234

Frame Type: 254T	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:315		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65


**Mechanical data**

Sound level (SPL / SWL) at 60 Hz	61.0 dB(A) / 73.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Hot	21 s
SPL@3							dB(A)	Safe Stall Time Cold	33 s
Moment of inertia	1.7 Lb-ft <sup>2</sup>		Frame material	cast iron					
Ext Load Inertia Capability:	75.0 Lb ft <sup>2</sup>		Color, paint shade						
<b>Bearings</b>			Coating (paint finish)						
Bearing DE   NDE	6309 Z C3 S0		6309 Z C3 S0	<b>Ventilation Type</b>					
Bearing_Type	Ball Bearing		Ball Bearing	Method of cooling	TEFC				
AFBMA:	45BC03JP30		45BC03JP30	Direction of rotation	Bidirectional				
<b>Grease</b>			Fan Material	Polypropylen ESD					
Capacity	0.5 oz		0.5 oz	VFD	CT: 4:1 VT: 20:1				
Grease Type:	Exxon Mobile EM		Space heaters	without					
			Brake:	-/-					

**Terminal box**

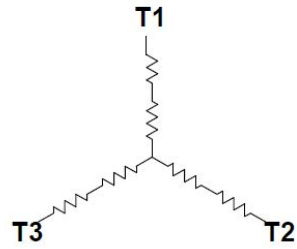
Lead Wire Connection	3 LEAD - WYE				Terminal box position	(3) Mounting - F-1
Voltage	L1	L1	L1	Connected together	Material of terminal box	
----	----	----	----	----	Cable entry	-/-
----	T1	T2	T3	----		

**Notes:**  
 I<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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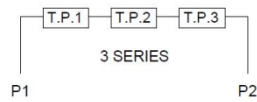
Main terminal diagram



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

Motor protection

THERMOSTATS



responsible dep.  
DI MC LVM

technical reference

created by

approved by

Project

**SIEMENS**

document type  
Wiring Diagram

title  
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document status  
free

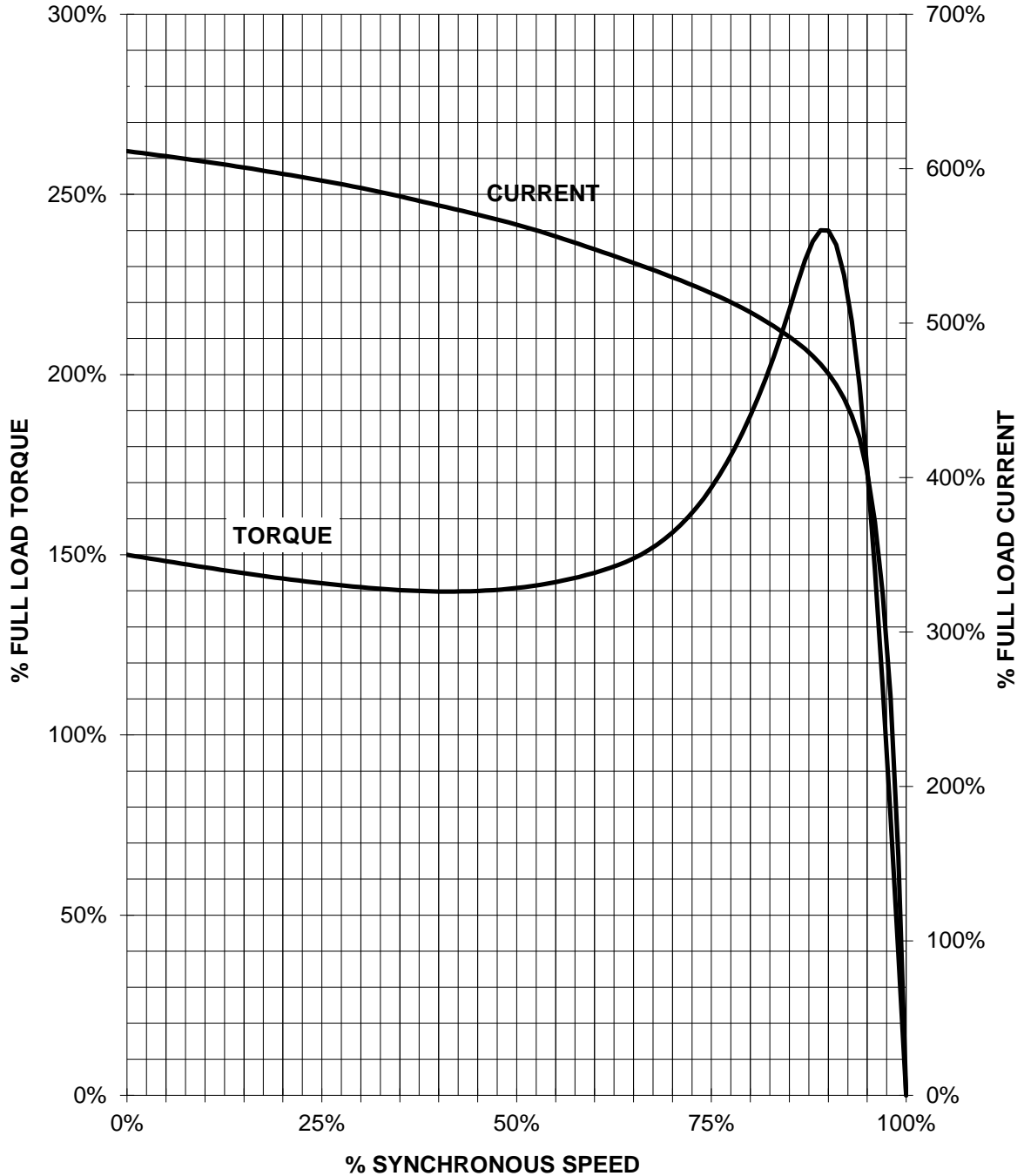
document number

customer

# SIEMENS INDUSTRY, INC.

HP 15 VOLTS <600 RPM 1800 TYPE XP100  
HZ 60 PHASE 3 FRAME 254T NEMA B

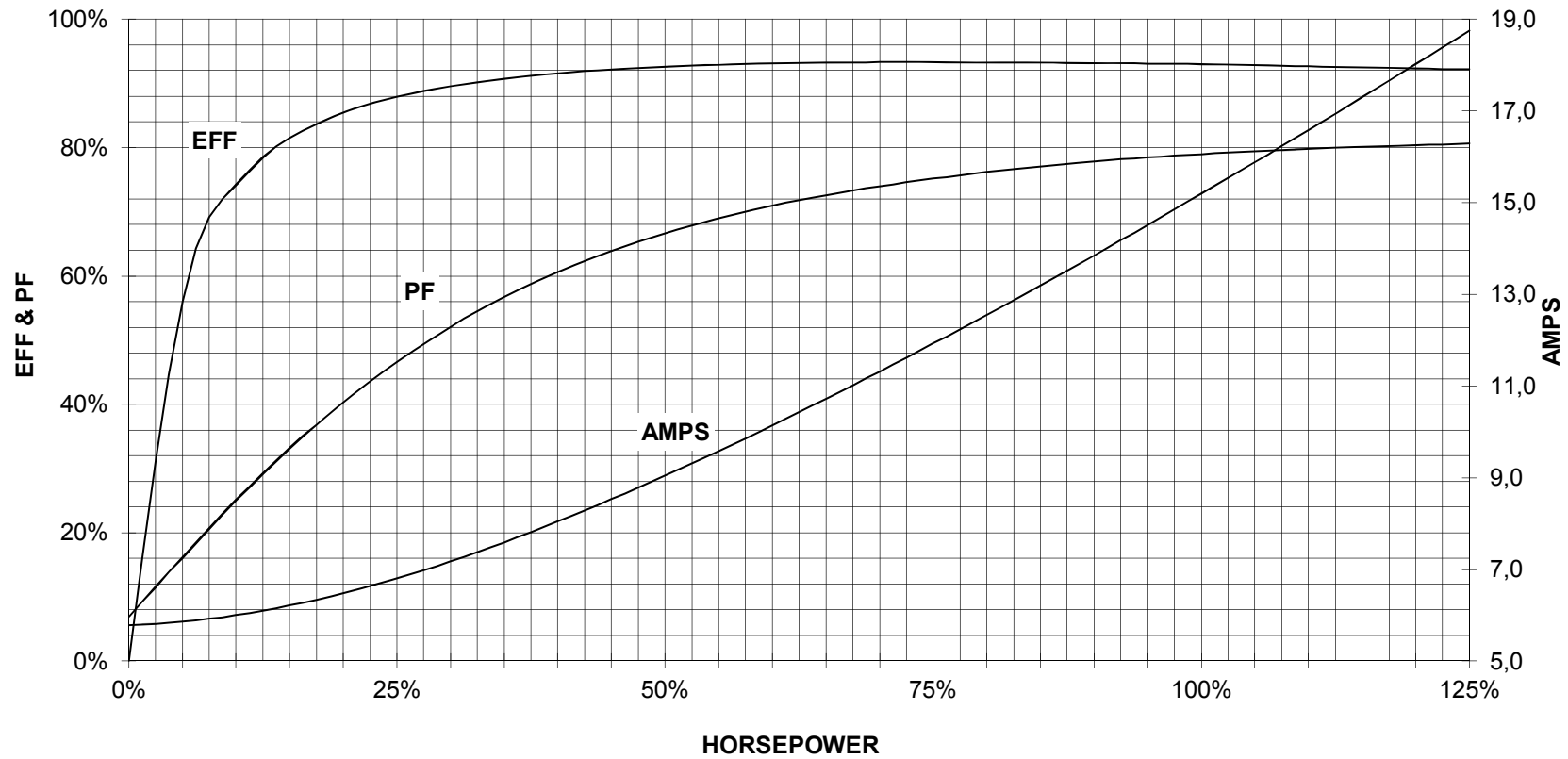
## TORQUE & CURRENT VS. SPEED



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

15 HP 1800 RPM 254T FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

**SIEMENS INDUSTRY, INC.**  
**PERFORMANCE CURVE**  
**XP100**



CUSTOMER \_\_\_\_\_ ORDER # \_\_\_\_\_ PO # \_\_\_\_\_

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

REV. 1