

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

**Motor type:** FS: 254T - 2p - 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]					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				
575		60	15.00	-/-	3,530	14.00	10.60	7.70	4.10	92.8	91.0	91.3	90.7	88.2	87.4	80.6	22.0	209	259	
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:283						Temp. Rise Cl.: B		Amb. Temp.: + to -20 °C @1000 m				kVA: G		IP IP65						


**Mechanical data**

Sound level (SPL / SWL) at 60 Hz	70.0 dB(A) / 79.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	24 s
250	500	1000	2000
4000	8000	Hz	
SPL@3		dB(A)	
Moment of inertia	1.1 Lb-ft <sup>2</sup>	Safe Stall Time Cold	48 s
Ext Load Inertia Capability:	16.0 Lb ft <sup>2</sup>	Frame material	cast iron
<b>Bearings</b>		Color, paint shade	
Bearing DE   NDE	6309 Z C3 S0	6309 Z C3 S0	
Bearing_Type	Ball Bearing	Ball Bearing	
AFBMA:	45BC03JP30	45BC03JP30	
<b>Grease</b>		Coating (paint finish)	
Capacity	0.5 oz	0.5 oz	
Grease Type:	Exxon Mobile EM	<b>Ventilation Type</b>	
		Method of cooling	TEFC
		Direction of rotation	Bidirectional
		Fan Material	Polypropylen ESD
		VFD	CT: 4:1 VT: 20:1
		Space heaters	without
		Brake:	-/-

**Terminal box**

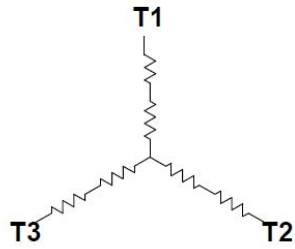
Lead Wire Connection	3 LEAD - WYE	Terminal box position	(3) Mounting - F-1
Voltage	L1	L1	L1
	Connected together	Material of terminal box	
		Cable entry	-/-

<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 customer interface</i>	
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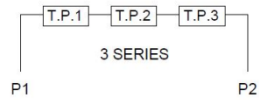
Main terminal diagram



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

Motor protection

THERMOSTATS



responsible dep.  
DI MC LVM

technical reference

created by

approved by

Project

**SIEMENS**

document type  
Wiring Diagram

title  
1MB2121-2BA11-3AG3

document status  
free

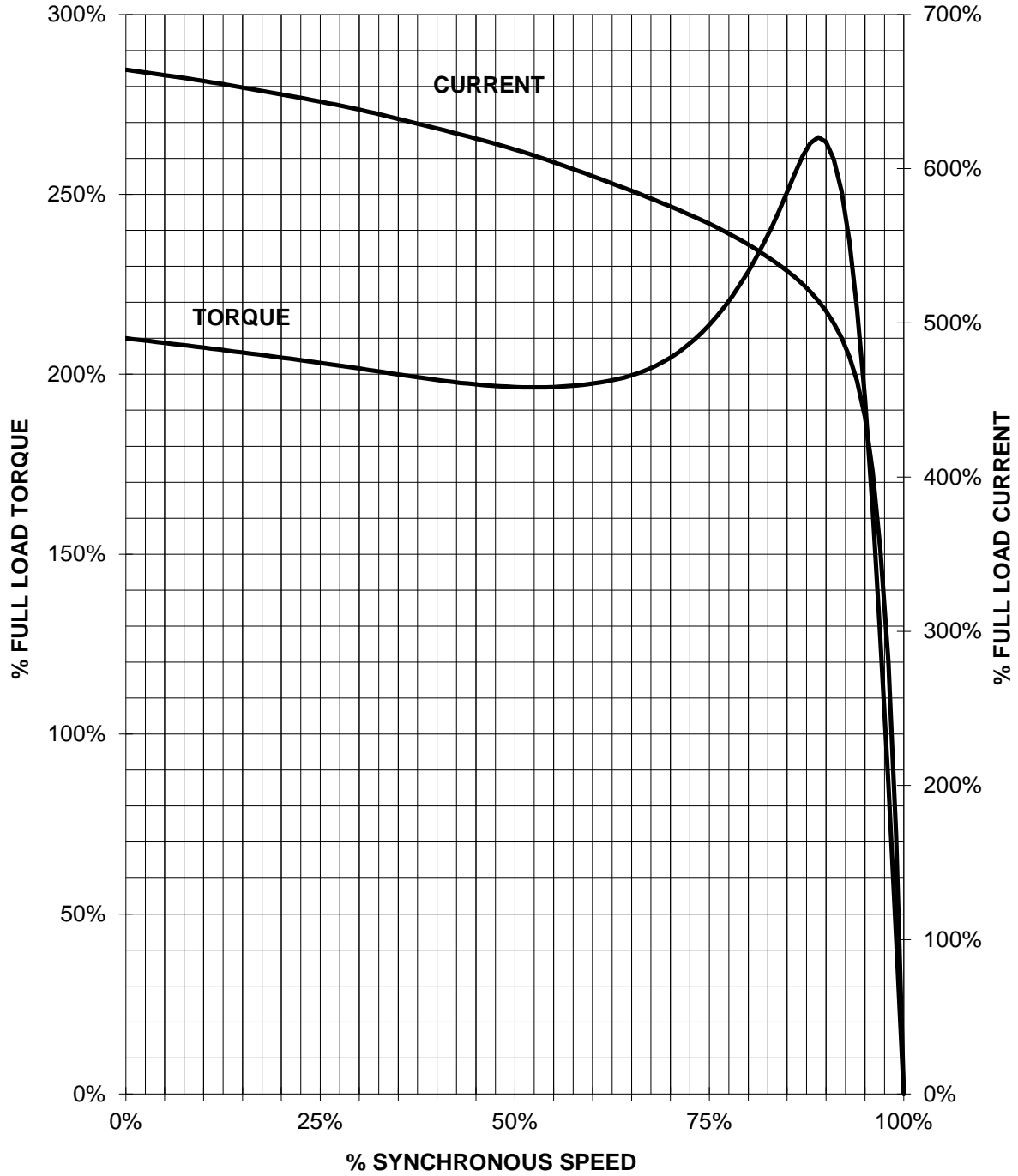
document number

customer

# SIEMENS INDUSTRY, INC.

HP 15 VOLTS <600 RPM 3600 TYPE XP100  
HZ 60 PHASE 3 FRAME 254T NEMA B

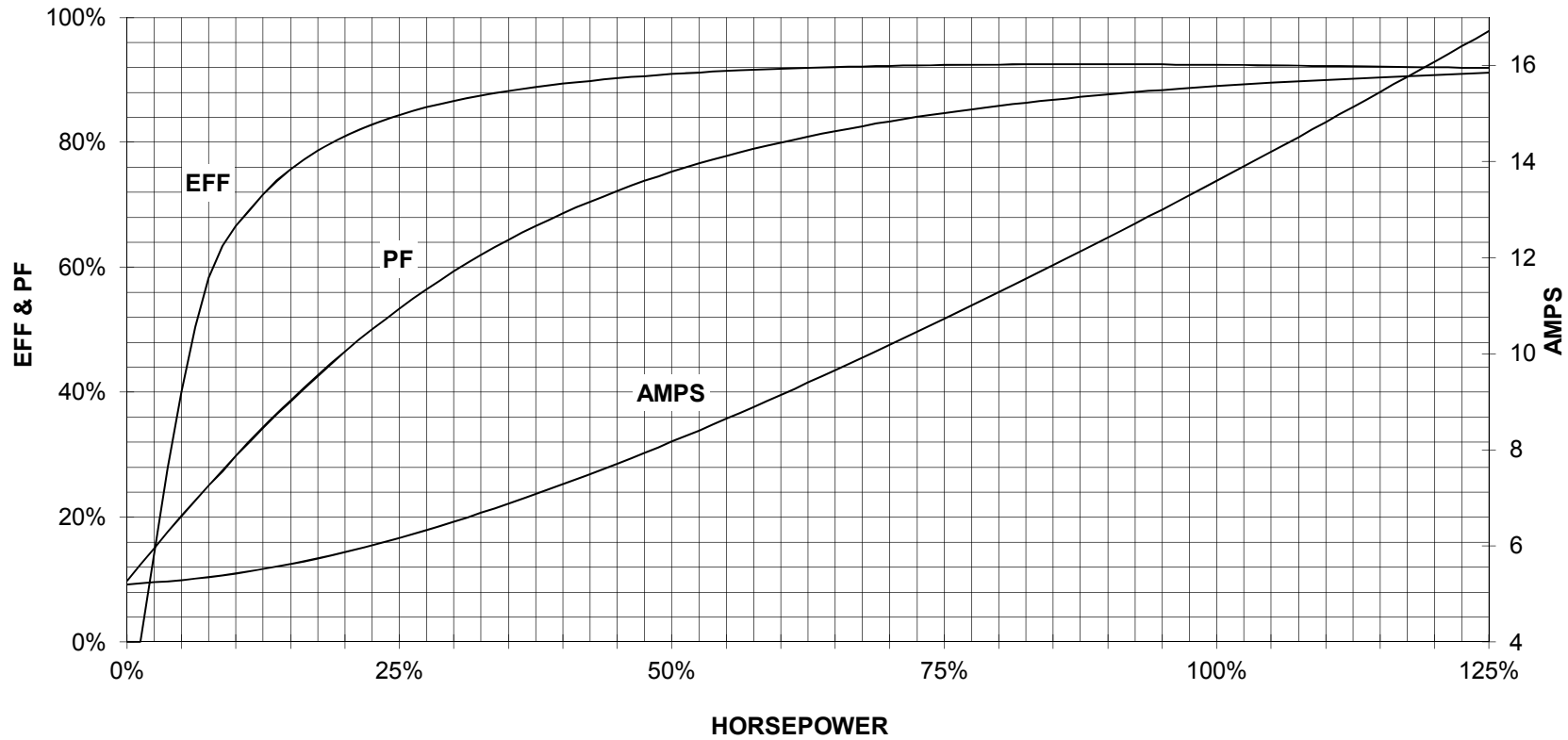
## TORQUE & CURRENT VS. SPEED



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

15 HP 3600 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