

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

Motor type: FS: 184T - 2p - 5 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]	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	5.00	-/-	3,505	4.80	3.70	2.70	1.60	36.8	88.5	89.1	88.2	88.2	85.9	78.1	7.5	173	427	
Frame Type: 184T		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:105						Temp. Rise Cl.: B		Amb. Temp.: + to -20 °C @1000 m				kVA: J		IP IP65						

Mechanical data


Sound level (SPL / SWL) at 60 Hz	69.0 dB(A) / 81.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	15 s
250	500	1000	2000
4000	8000	Hz	
SPL@3		dB(A)	
Moment of inertia	0.2 Lb-ft ²	Safe Stall Time Cold	29 s
Ext Load Inertia Capability:	6.0 Lb ft ²	Frame material	cast iron
Bearings		Color, paint shade	
Bearing DE NDE	6206 Z C3 S0	6206 Z C3 S0	
Bearing_Type	Ball Bearing	Ball Bearing	
AFBMA:	30BC02JP30	30BC02JP30	
Grease		Coating (paint finish)	
Capacity	0.2 oz	0.2 oz	
Grease Type:	Exxon Mobile EM	Ventilation Type	
		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

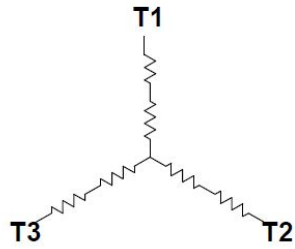
Lead Wire Connection	3 LEAD - WYE	Terminal box position	(3) Mounting - F-1
Voltage	L1	L1	L1
	Connected together	Material of terminal box	
----	----	Cable entry	-/-
----	T1	T2	T3
----	----		

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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	title 1MB2121-1CA31-3AG3	document number					
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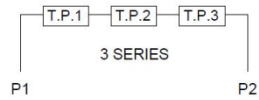
Main terminal diagram



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
1MB2121-1CA31-3AG3

document status
free

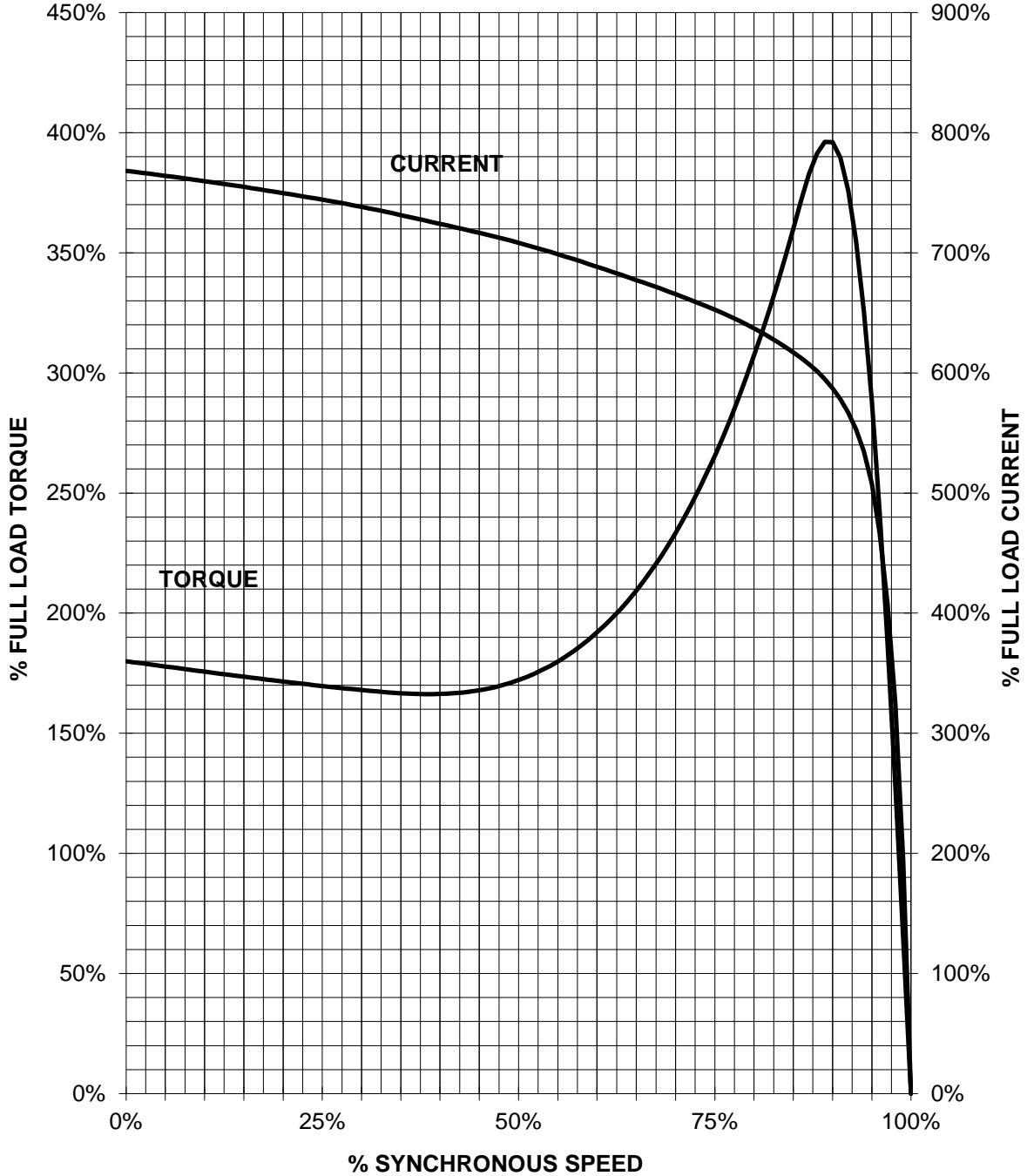
document number

customer

SIEMENS INDUSTRY, INC.

HP 5 VOLTS <600 RPM 3600 TYPE XP100
HZ 60 PHASE 3 FRAME 184T NEMA B

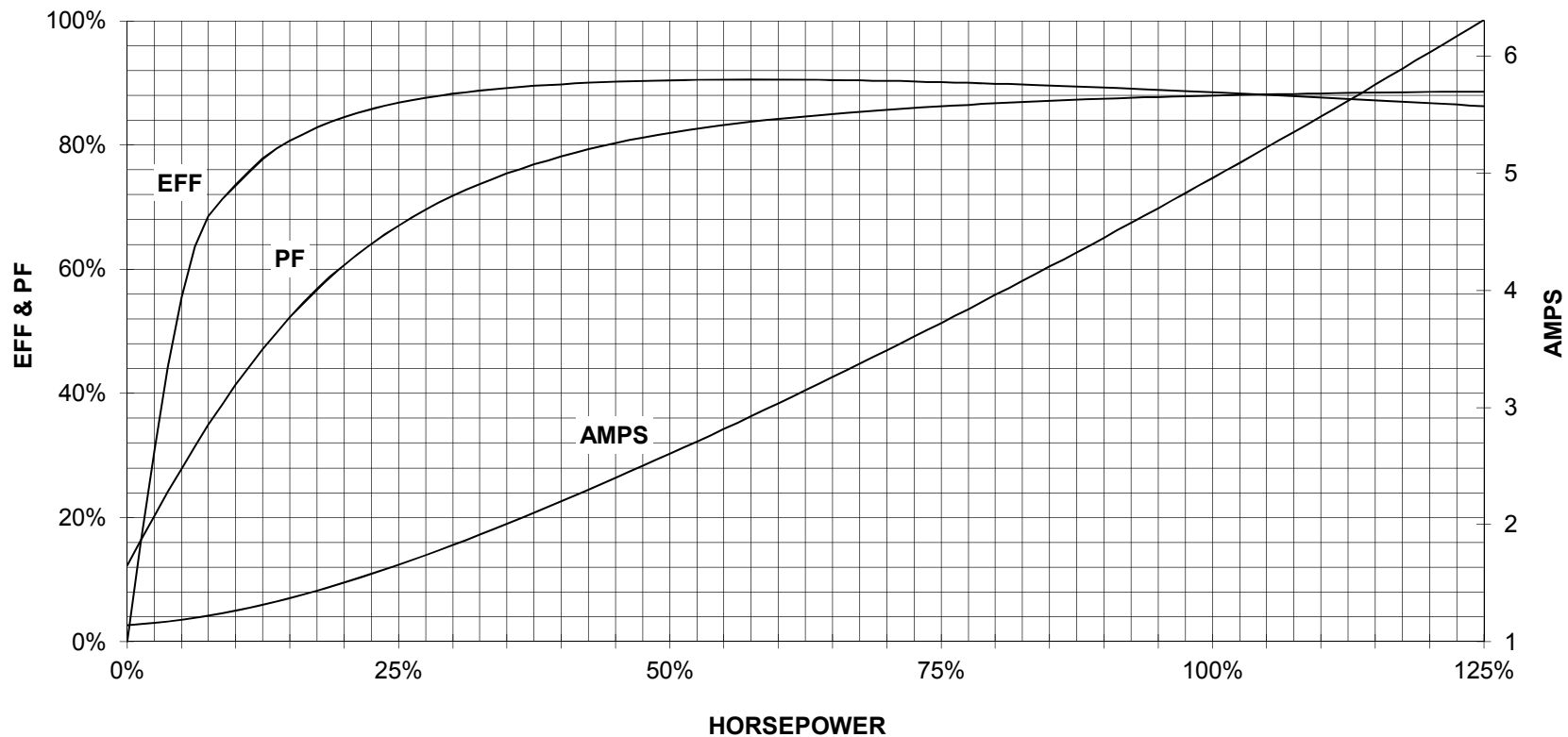
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

5 HP 3600 RPM 184T 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