

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

Motor type: FS: 184T - 8p - 1.5 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	1.50	-/-	865	2.40	2.20	2.00	1.80	13.6	82.5	82.0	78.5	56.0	47.0	35.0	12.0	133	233	
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:125						Temp. Rise Cl.: B		Amb. Temp.: + to -20 °C @1000 m				kVA: L		IP IP65						


Mechanical data

Sound level (SPL / SWL) at 60 Hz	54.0 dB(A) / 63.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	43 s
250	500	1000	2000
4000	8000	Hz	
SPL@3	dB(A)		Safe Stall Time Cold
		Frame material	cast iron
Moment of inertia	0.3 Lb-ft ²	Color, paint shade	
Ext Load Inertia Capability:	45.0 Lb ft ²	Coating (paint finish)	
Bearings		Ventilation Type	
Bearing DE NDE	6206 Z C3 S0	6206 Z C3 S0	Method of cooling
Bearing_Type	Ball Bearing	Ball Bearing	TEFC
AFBMA:	30BC02JP30	30BC02JP30	Direction of rotation
Grease		Polypropylen ESD	
Capacity	0.2 oz	0.2 oz	VFD
Grease Type:	Exxon Mobile EM		CT: 4:1 VT: 20:1
		Space heaters	without
		Brake:	-/-

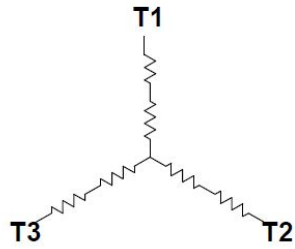
Terminal box

Lead Wire Connection	3 LEAD - WYE				Terminal box position	(3) Mounting - F-1
Voltage	L1	L1	L1	Connected together	Material of terminal box	
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----	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.	technical reference	created by	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>	
DI MC LVM		DT Configurator			
	document type	document status		customer	
	datasheet	released			
	title	document number			
	1MB2121-1CD31-3AG3				
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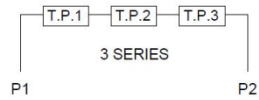
Main terminal diagram



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
1MB2121-1CD31-3AG3

document status
free

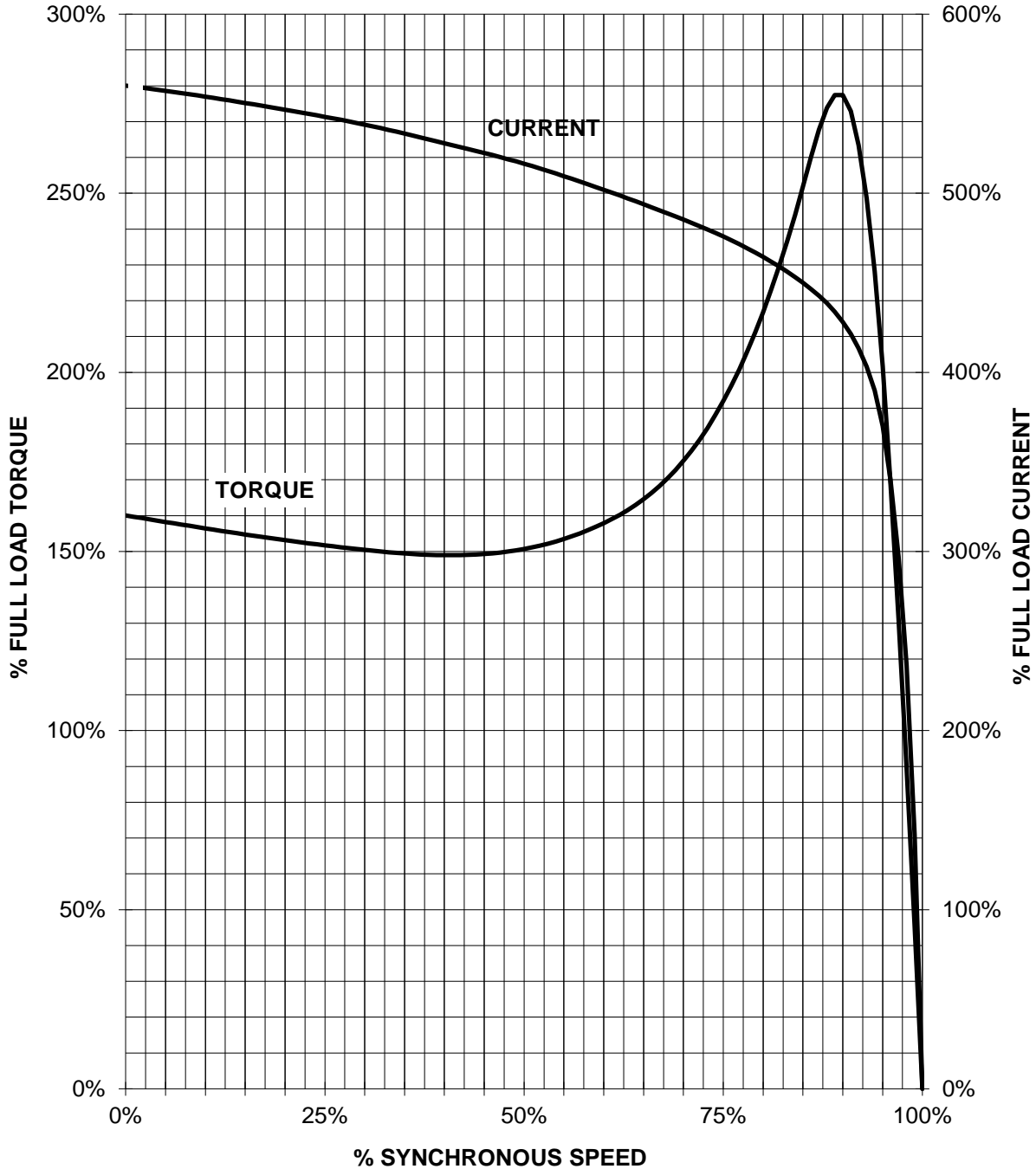
document number

customer

SIEMENS INDUSTRY, INC.

HP 1.5 VOLTS <600 RPM 900 TYPE XP100
HZ 60 PHASE 3 FRAME 184T NEMA B

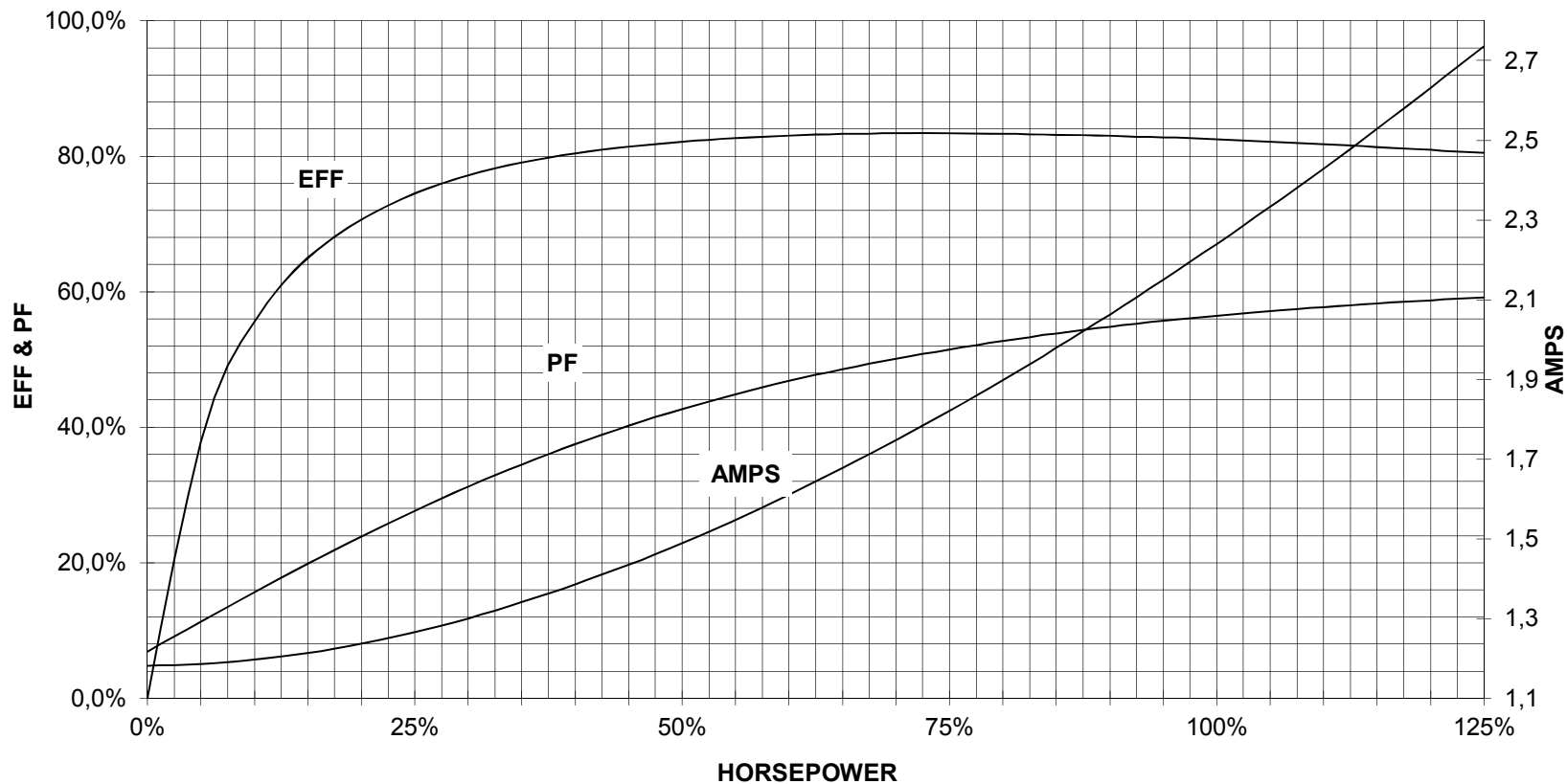
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

1.5 HP 900 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