

Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)



MLFB-Ordering data: **1MB2221-3AC11-6AA3**

Client order no.:
Order no.:
Offer no.:
Remarks:

Item no.:
Consignment no.:
Project:

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_L/T_N BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	1/2	4/4	3/4	1/2				
460	Δ	60	25.00	-/-	1,185	33.00	26.20	20.40	14.00	183.0	93.0	93.2	92.7	76.0	72.0	62.0	111.0	170	241	
230	$\Delta\Delta$	60	25.00	-/-	1,185	66.00	52.33	40.73	28.00	366.0	93.0	93.2	92.7	76.0	72.0	62.0	111.0	170	241	

Frame Type	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: 805 lbs	Mounting: (3) Mounting - F-1	Temp. Rise Cl.: B	Amb. Temp.: +55 °C @1000 m	kVA: G	IP65

Mechanical data

WK2

Rotor Moment of Inertia:	9	Lb-ft ²
Ext Load Inertia Capability:	324.0	Lb-ft ²

Safe Stall Time

Hot:	28.0	s
Cold:	54.0	s

Typical Noise Data

A-weighted Sound		
Sound Pressure:	73.0	dB(A)
Sound Power:	63.0	dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	51.0	57.0	58.0	56.0	51.0	50.0	dB(A)

Bearings

	DE	NDE
Bearing size:	6312 Z C3 S0	6312 Z C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	60BC03JP30	60BC03JP30

Grease

Capacity:	5.50	oz	5.50	oz
Type:	Exxon Mobile EM			
Thickener:	Polyurea			

Frame

Frame material:	cast iron
Coating (paint finish):	standard
Color, paint shade:	RAL 7030

Terminal box

Terminal box position:	(3) Mounting - F-1
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Lead Wire Connection

Description:	9 LEAD - DELTA				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	----	$\Delta\Delta$
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Δ

Ventilation Type

Type of Cooling:	TEFC
Fan Material:	Polypropylen ESD
Fan Rotation:	Bidirectional

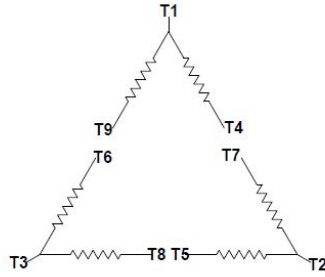
Additional information

VFD Operation:	CT: 4:1	VT: 20:1
Area: classification:	Class I Division 1 Groups D	
Brake:		

Notes

I_L/I_N = locked rotor current / current nominal T_L/T_N = break down torque / nominal torque
 T_A/T_N = locked rotor torque / torque nominal ¹⁾ Value is valid only for DOL operation with motor design IC411

Main terminal diagram



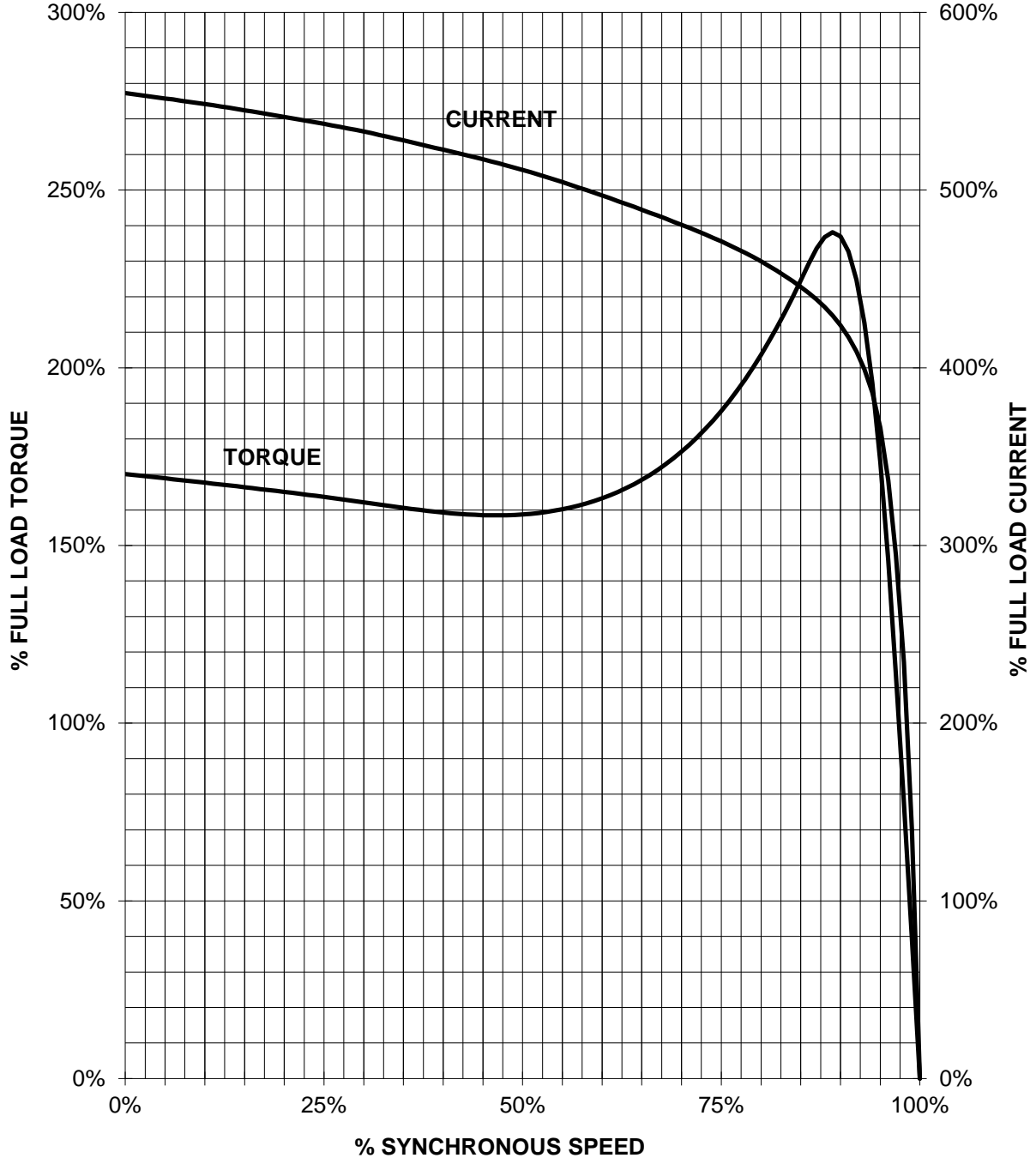
9 LEAD DELTA						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T6	T7 T4	T8 T5	T3 T9		Δ Δ
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	project
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SIEMENS INDUSTRY, INC.

HP 25 VOLTS <600 RPM 1200 TYPE XP100 1D1
HZ 60 PHASE 3 FRAME 324T NEMA B

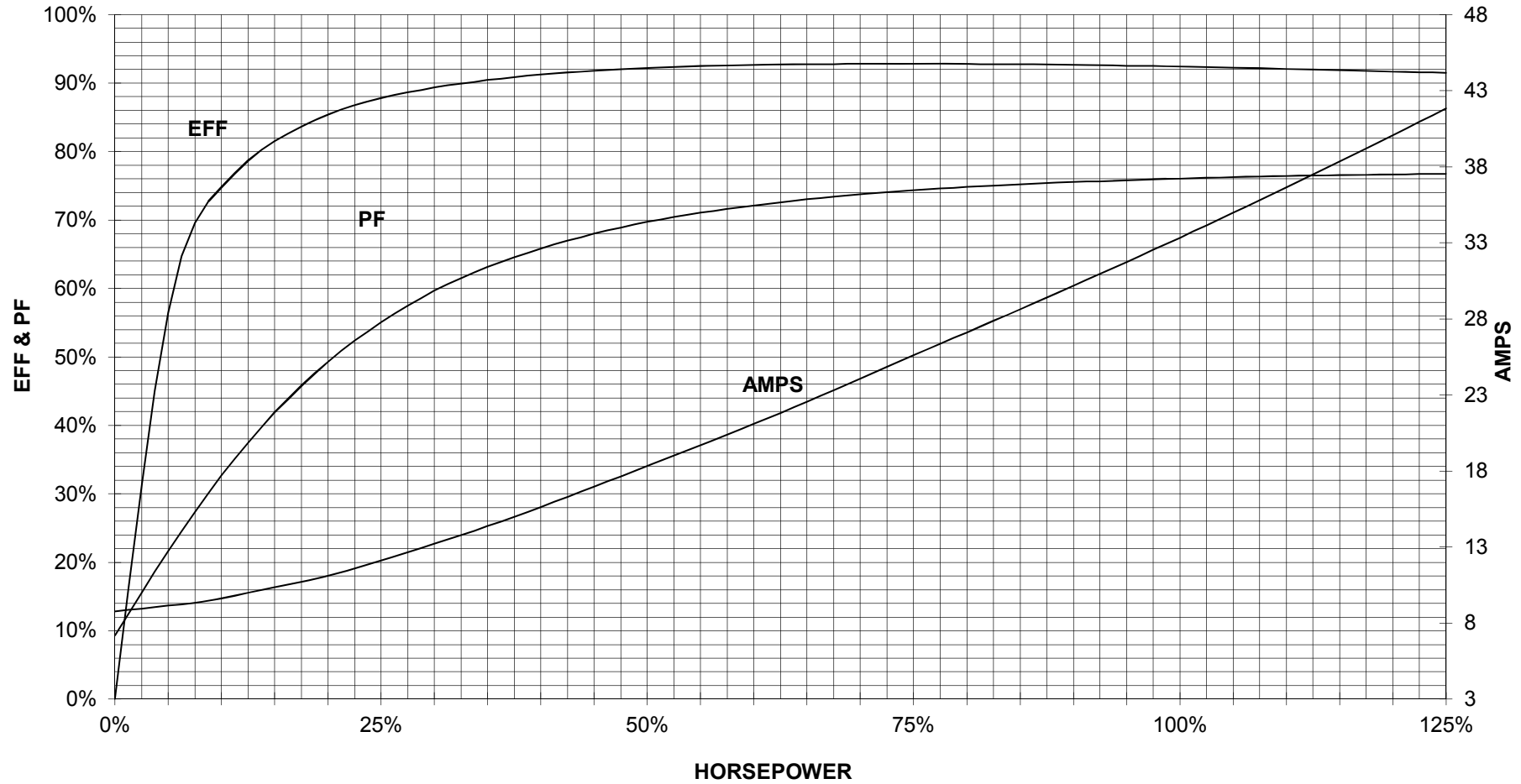
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

25 HP 1200 RPM 324T 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