

Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)



MLFB-Ordering data: 1MB2221-2AC11-4AA3

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]					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	LRC	4/4	3/4	1/2	4/4	3/4	1/2			
460	Y	60	3.00	-/-	1,175	4.30	3.60	3.10	2.50	32.0	89.5	89.3	87.8	73.0	65.4	52.1	13.4	265	470
230	YY	60	3.00	-/-	1,175	8.60	7.21	6.14	5.00	64.0	89.5	89.3	87.8	73.0	65.4	52.1	13.4	265	470

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

Mechanical data

WK2

Rotor Moment of Inertia: 1 Lb-ft²

Ext Load Inertia Capability: 44.0 Lb-ft²

Safe Stall Time

Hot: 23.0 s

Cold: 35.0 s

Typical Noise Data

A-weighted Sound

Sound Pressure: 71.0 dB(A)

Sound Power: 64.0 dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	42.0	52.0	64.0	54.0	47.0	34.0	dB(A)

Bearings

	DE	NDE
Bearing size:	6208 Z C3 S0	6208 Z C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	40BC02JP30	40BC02JP30

Grease

Capacity:	0.30 oz	0.30 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

Lead Wire Connection

Description:	9 LEAD - WYE				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Y Y
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

Ventilation Type

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

Additional information

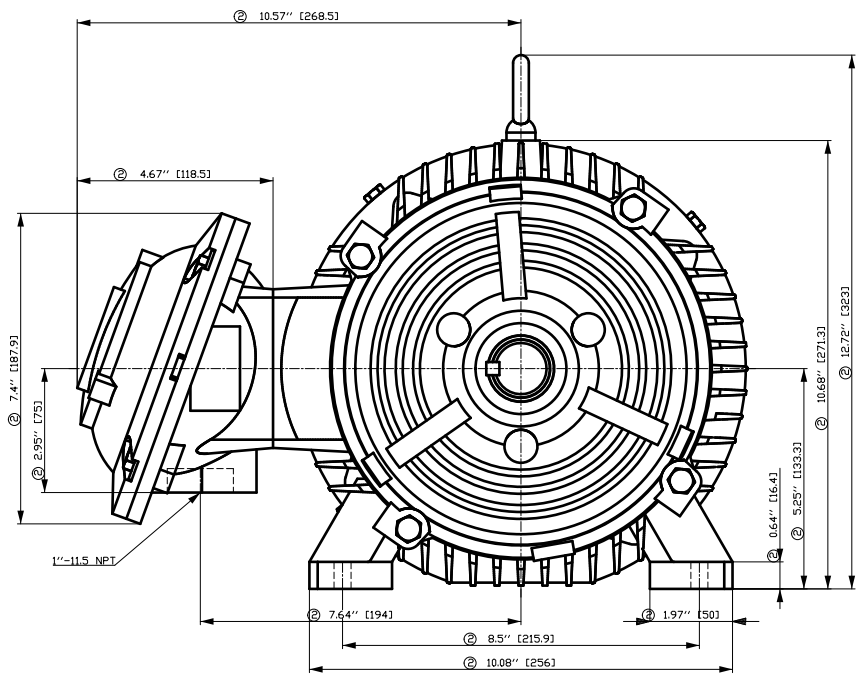
VFD Operation:	CT: 4:1	VT: 20:1
Area: classification:	Class I Division 1 Groups D	
Brake:		

Notes

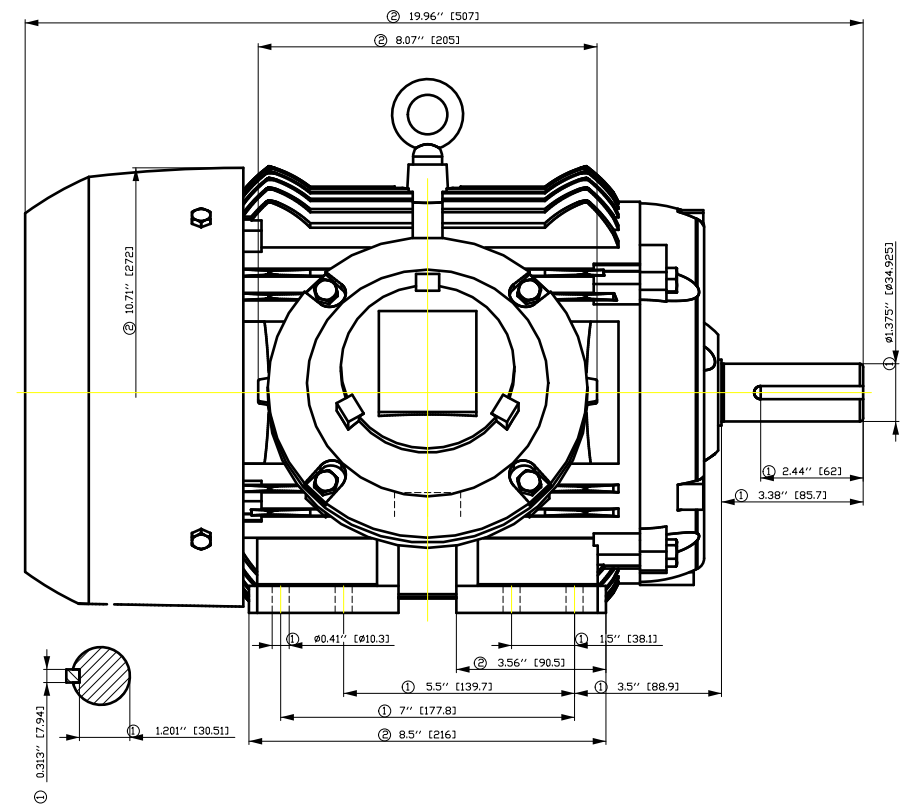
I_A/I_N = locked rotor current / current nominal T_A/T_N = break down torque / nominal torque
 T_k/T_N = locked rotor torque / torque nominal ¹⁾ Value is valid only for DOL operation with motor design IC411

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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2020-07-06 20:18

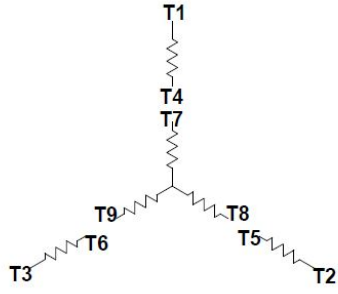


- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.



Tolerance	Surface	Material	Weight	Scale	
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E	Creator				ÖVS
	Approval				
	Department				
	Change Order	MFB	Doc Type	/	
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	Revision	Index	RS	1st Language	
				2nd Language	
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				Sheet	F of F

Main terminal diagram



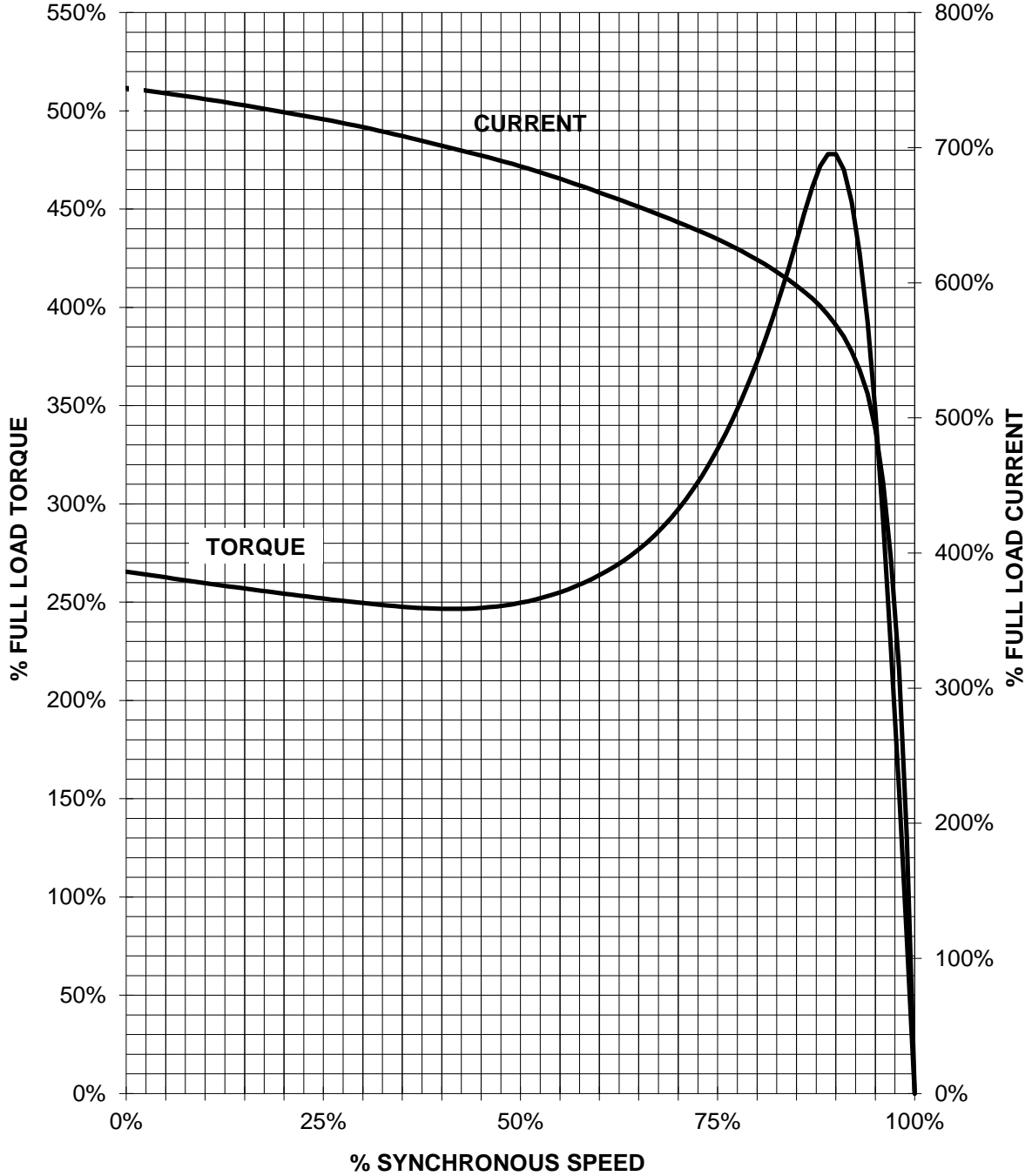
9 LEAD WYE						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T7	T2 T6	T3 T9	T4 T5 T6	YY	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y	

responsible dep. DI MC LVM	technical reference	created by	approved by	project
SIEMENS	document type Wiring Diagram	document status free		customer
	title 1MB2221-2AC11-4AA3	document number		
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SIEMENS INDUSTRY, INC.

HP 3 VOLTS <600 RPM 1200 TYPE XP100 1D1
HZ 60 PHASE 3 FRAME 213T NEMA B

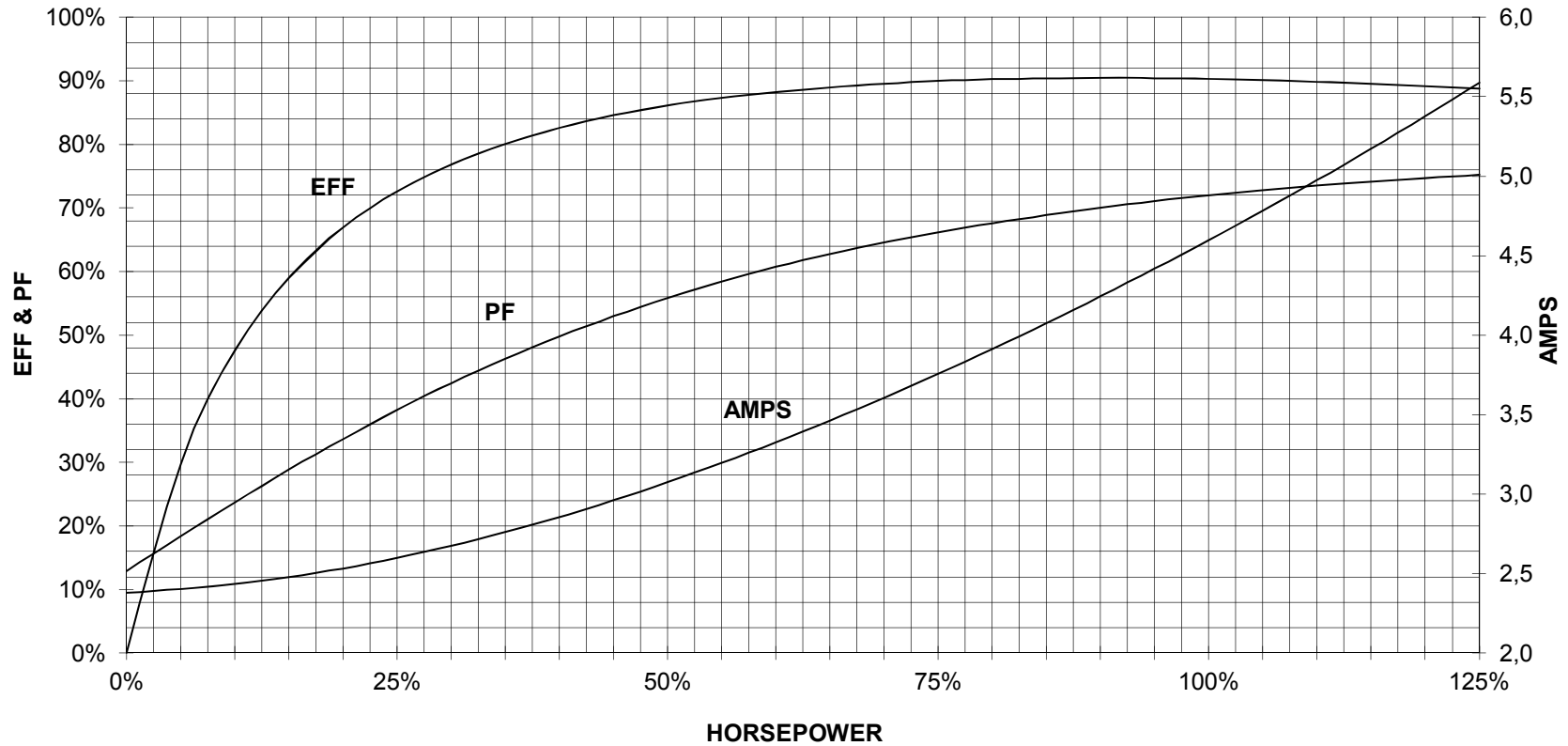
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

3 HP 1200 RPM 213T 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