

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

Totally Enclosed Fan Cooled (TEFC)



MLFB-Ordering data: **1MB2221-2BA11-4AA3**

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

Item no.:  
Consignment no.:  
Project:

U [V]	$\Delta / Y$	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	15.00	-/-	3,530	17.50	13.20	9.60	5.10	116.0	91.0	91.3	90.7	88.2	87.4	80.6	22.0	209	259
230	YY	60	15.00	-/-	3,530	35.00	26.40	19.21	10.20	232.0	91.0	91.3	90.7	88.2	87.4	80.6	22.0	209	259

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: 283 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:	1	Lb-ft <sup>2</sup>
Ext Load Inertia Capability:	16.0	Lb-ft <sup>2</sup>

#### Safe Stall Time

Hot:	24.0	s
Cold:	48.0	s

#### Typical Noise Data

A-weighted Sound		
Sound Pressure:	79.0	dB(A)
Sound Power:	70.0	dB(A)

#### Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	60.0	73.0	72.0	75.0	69.0	56.0	dB(A)

#### Bearings

	DE	NDE
Bearing size:	6309 Z C3 S0	6309 Z C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	45BC03JP30	45BC03JP30

#### Grease

Capacity:	0.50	oz	0.50	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
------------------------	--------------------

#### 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

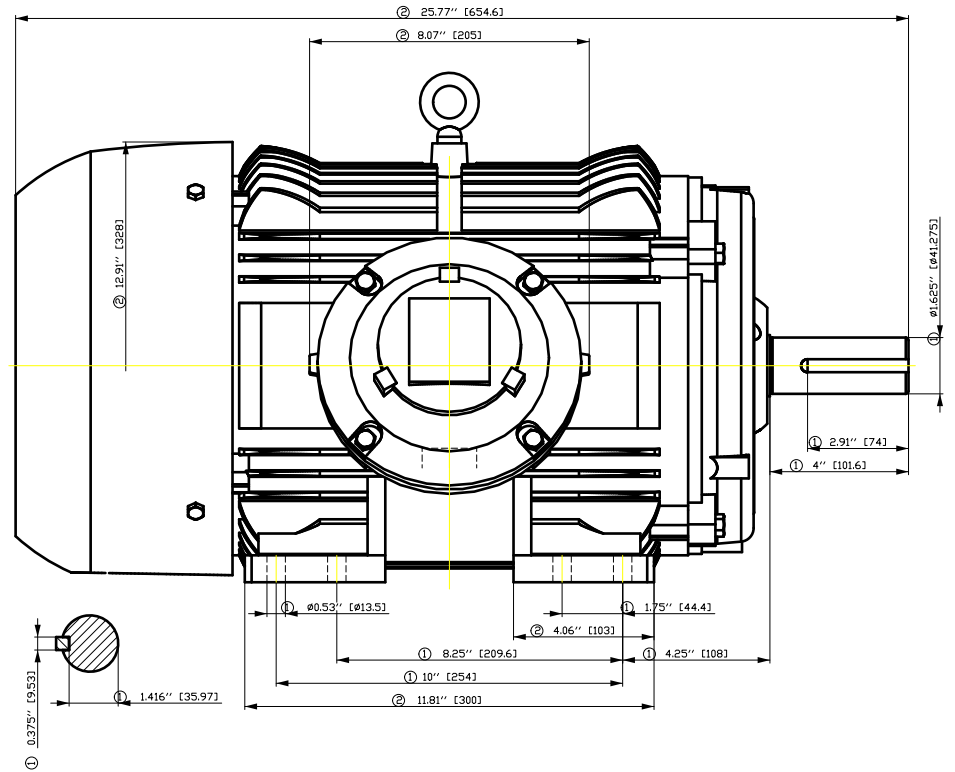
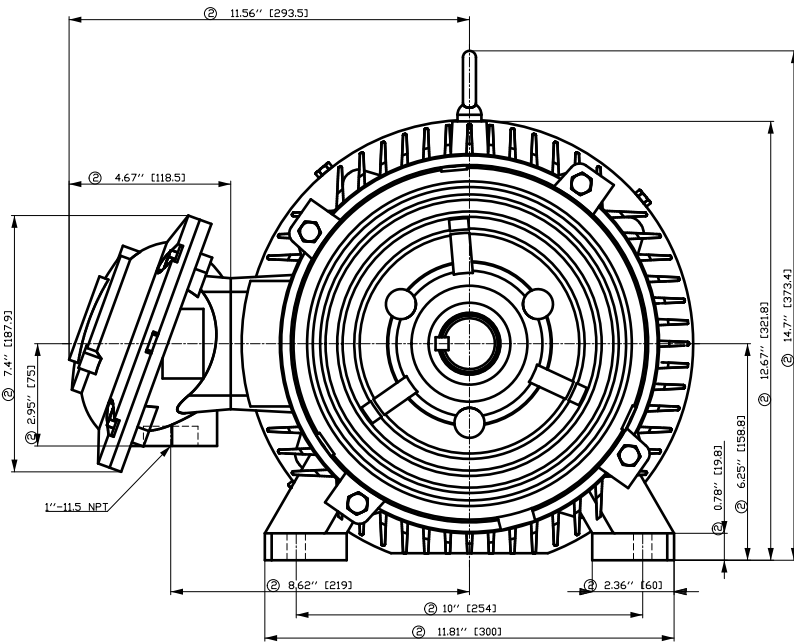
Type of Cooling:	TEFC
Fan Material:	Polypropylen ESD
Fan Rotation:	Bidirectional

#### Additional information

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

#### Notes

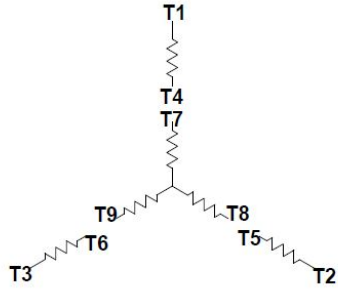
$I_A/I_N$  = locked rotor current / current nominal  $T_k/T_N$  = break down torque / nominal torque  
 $T_A/T_N$  = locked rotor torque / torque nominal <sup>1)</sup> Value is valid only for DOL operation with motor design IC411



- 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	
FT ÖGGRÉCÓFFÉ ÖEH	Author	ÖS Tæ: ^æ@` }*	E		
E	Creator				ÖVS
	Approval				
	Department				
	Change Order	MLFB	Doc Type	/	
	Doc. State	Í Æ Æ	Item No	Paper Size	
	Revision	Index RS	Doc No	1st Language	
				2nd Language	
© Siemens AG 2018	Project No	E	Ref No	E	
				Sheet F of F	

Main terminal diagram



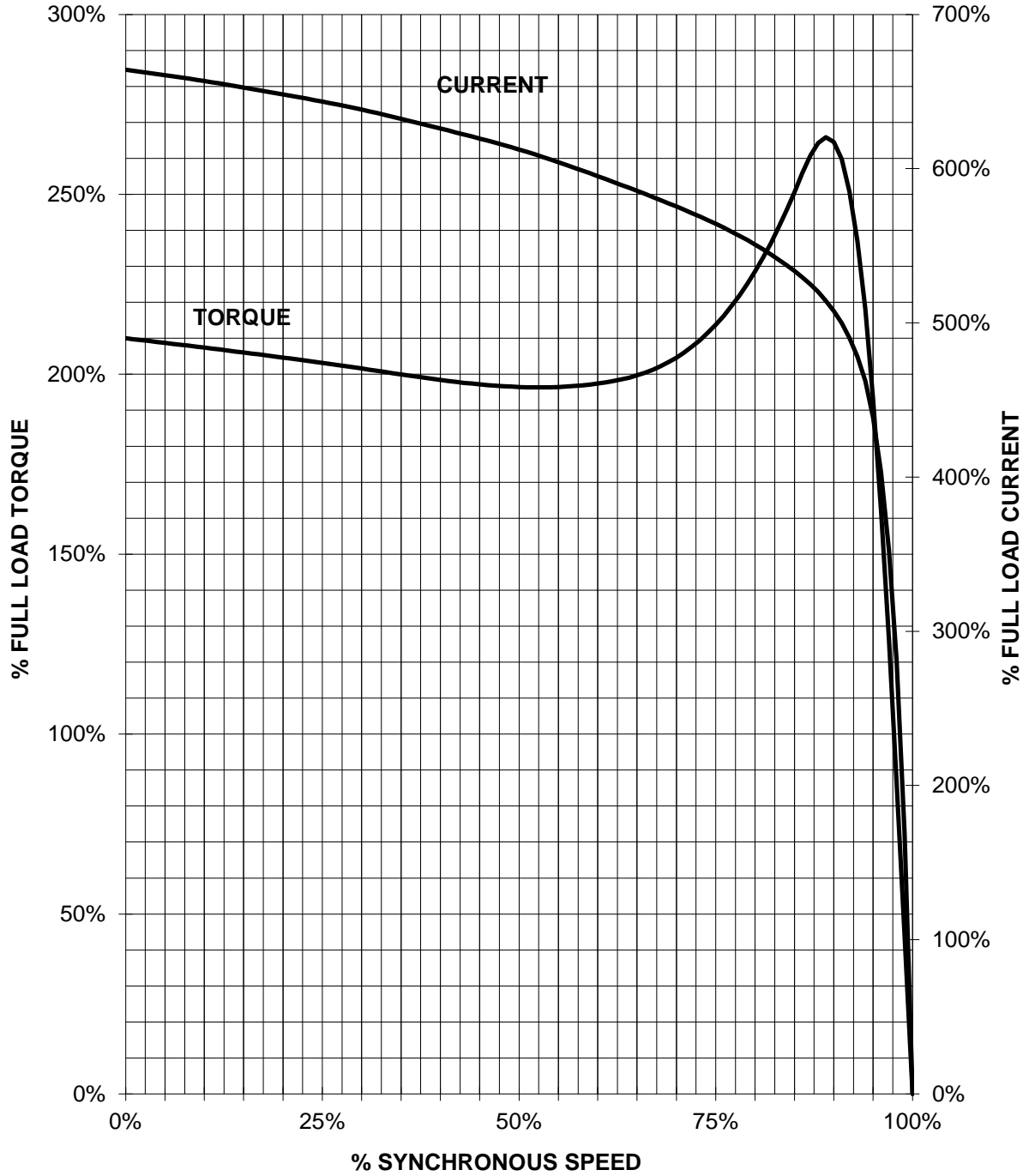
9 LEAD WYE						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T7	T2 T6	T3 T9	T4 T5 T6	YY	
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y	

responsible dep. DI MC LVM	technical reference	created by	approved by	project
<b>SIEMENS</b>	document type Wiring Diagram	document status free		customer
	title 1MB2221-2BA11-4AA3	document number		
© Siemens AG 2019	rev. 01	creation date 12/03/2019	language en/en	Page 1/1

# SIEMENS INDUSTRY, INC.

HP 15 VOLTS <600 RPM 3600 TYPE XP100 1D1  
HZ 60 PHASE 3 FRAME 254T NEMA B

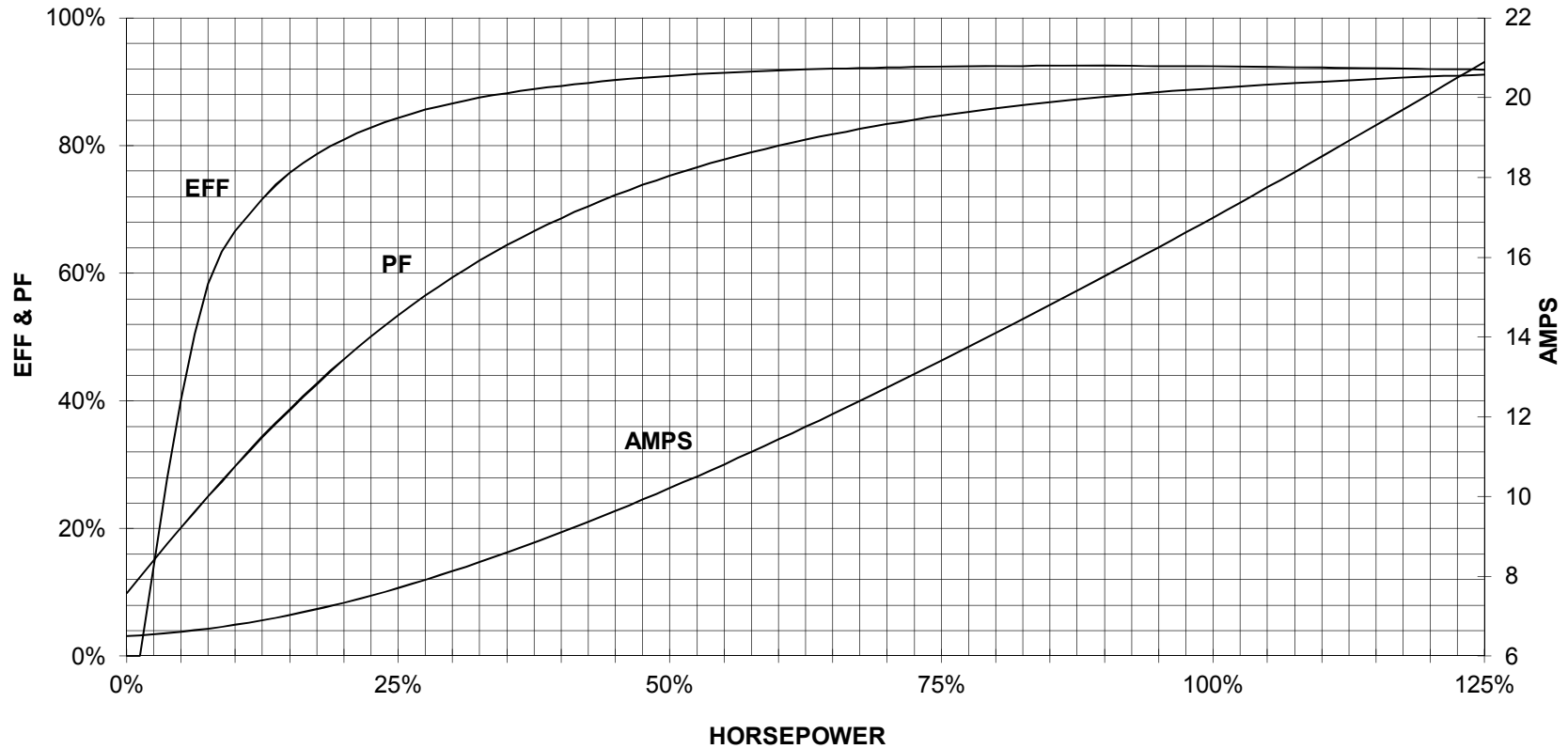
## TORQUE & CURRENT VS. SPEED



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

15 HP 3600 RPM 254T 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