SIEMENS

Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)

MLFB-Ordering data: 1MB2221-3CC21-6AA3

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] 4/4	3/4	1/2	0	LRC	Nom. Eff Load [%] 4/4	3/4	1/2	Pwr. Factor Load [%] 4/4	3/4	1/2	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460	Δ	60	50.00	-/-	1,185	62.00	49.00	37.20	24.00	363.0	94.1	94.3	94.0	80.0	76.0	67.0	222.0	190	220
230	ΔΔ	60	50.00	-/-	1,185	124.00	97.99	74.34	48.00	726.0	94.1	94.3	94.0	80.0	76.0	67.0	222.0	190	220

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: 850 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:	16	Lb-ft²
Ext Load Inertia Capability:	620.0	Lb-ft²

Safe Stall Time

Hot:	29.0	s
Cold:	55.0	s

Typical Noise Data

A-weighted Sound

Sound Pressure:					71.0		dB(A)
Sound Power:					60.0		dB(A)
Octave Band Center Frequencies Hertz							
	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	48.0	53.0	54.0	53.0	52.0	50.0	dB(A)

Bearings

	DE	NDE
Bearing size:	6314 Z C3 S0	6314 Z C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	70BC03JP30	70BC03JP30

Grease

Capacity:	7.50 oz	7.50 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 - DELTA

Voltage	L1	L2	L3	Connected together	
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	-- -- --	ΔΔ
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:

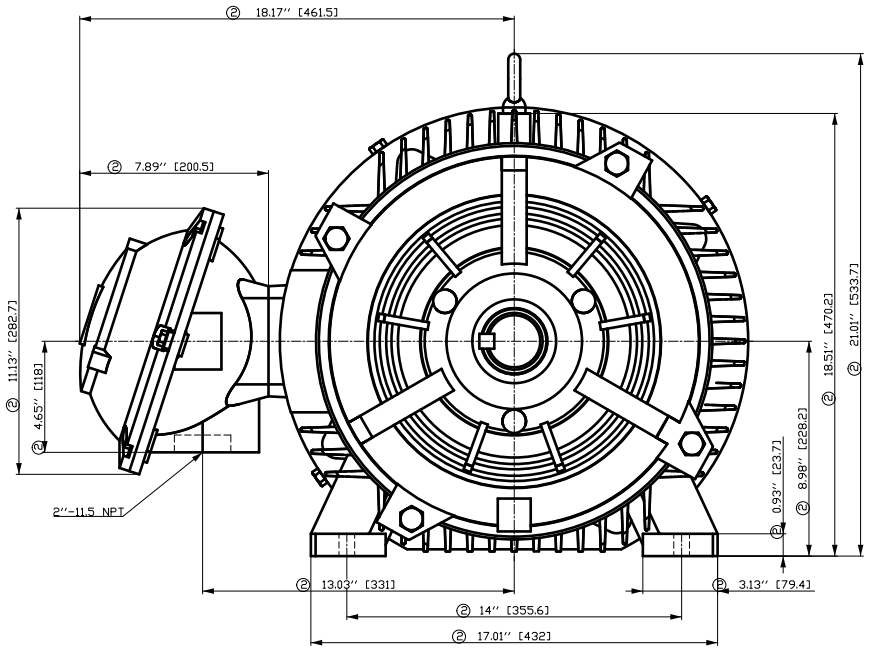
Notes

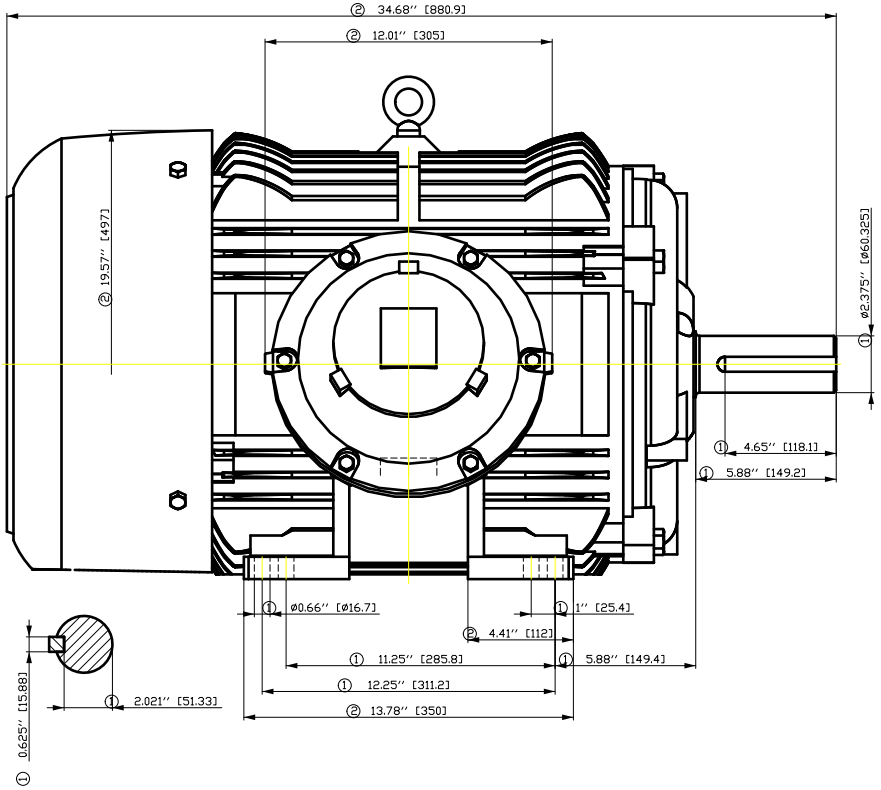
I_A/I_N = locked rotor current / current nominal
T_A/T_N = locked rotor torque / torque nominal
T_K/T_N = break down torque / nominal torque
[1] Value is valid only for DOL operation with motor design IC411

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

Generated:
2020-07-06 20:26

Confi® tire de secret d'entreprise. Tous droits ®servés.
Comunicado como secreto empresarial. Reservados todos os direitos.
Confiado como secreto de empresa. Nos reservamos todos los derechos.
Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for the payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.
Weitergabe sowie Vervielfältigung, Verbreitung und/oder Bearbeitung dieses Dokumentes, Verwertung und Mitteilung seines Inhaltes sind verboten, soweit nicht ausdrücklich gestattet. Zuwiderhandlungen verpflichten zu Schadenersatz. Alle Rechte für den Fall der Patent-, Gebrauchsmuster- oder Geschmacksmustereintragung vorbehalten





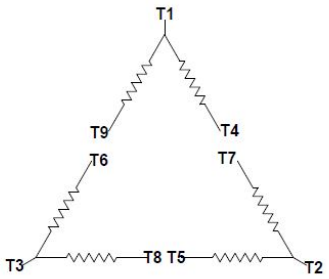
① Tolerances according to NEMA std.

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
			-	mm
1MB2221-3CC21-6AA3 -	Author	Dimensional drawing MaÇzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB		Doc Type
SIEMENS	Doc State 7/6/20	Item No		Paper Size A3
	Revision Index RS	Doc No		1st Language en 2nd Language de
© Siemens AG 2018	Project No -	Ref No -		Sheet 1 of 1

Main terminal diagram



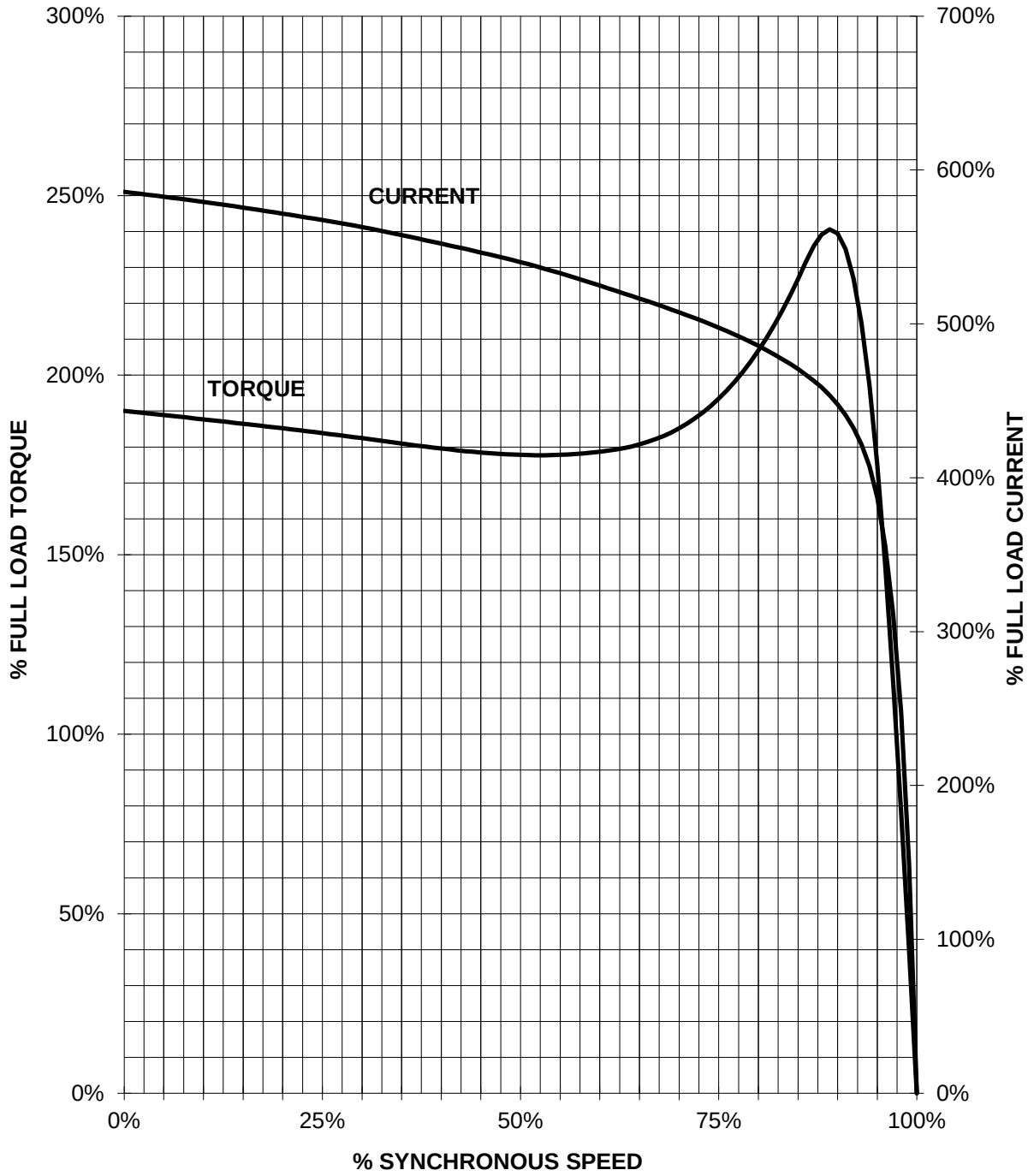
9 LEAD DELTA					
Volts	LINES			CONNECTED TOGETHER	CONN.
	L1	L2	L3		
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5		Δ Δ
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	project	
SIEMENS	document type Wiring Diagram		document status free	customer	
	title 1MB2221-3CC21-6AA3		document number		
© Siemens AG 2019			rev. 01	creation date 12/03/2019	language en/en
					Page 1/1

SIEMENS INDUSTRY, INC.

HP	50	VOLTS	<600	RPM	1200	TYPE	XP100 1D1
HZ	60	PHASE	3	FRAME	365T	NEMA	B

TORQUE & CURRENT VS. SPEED



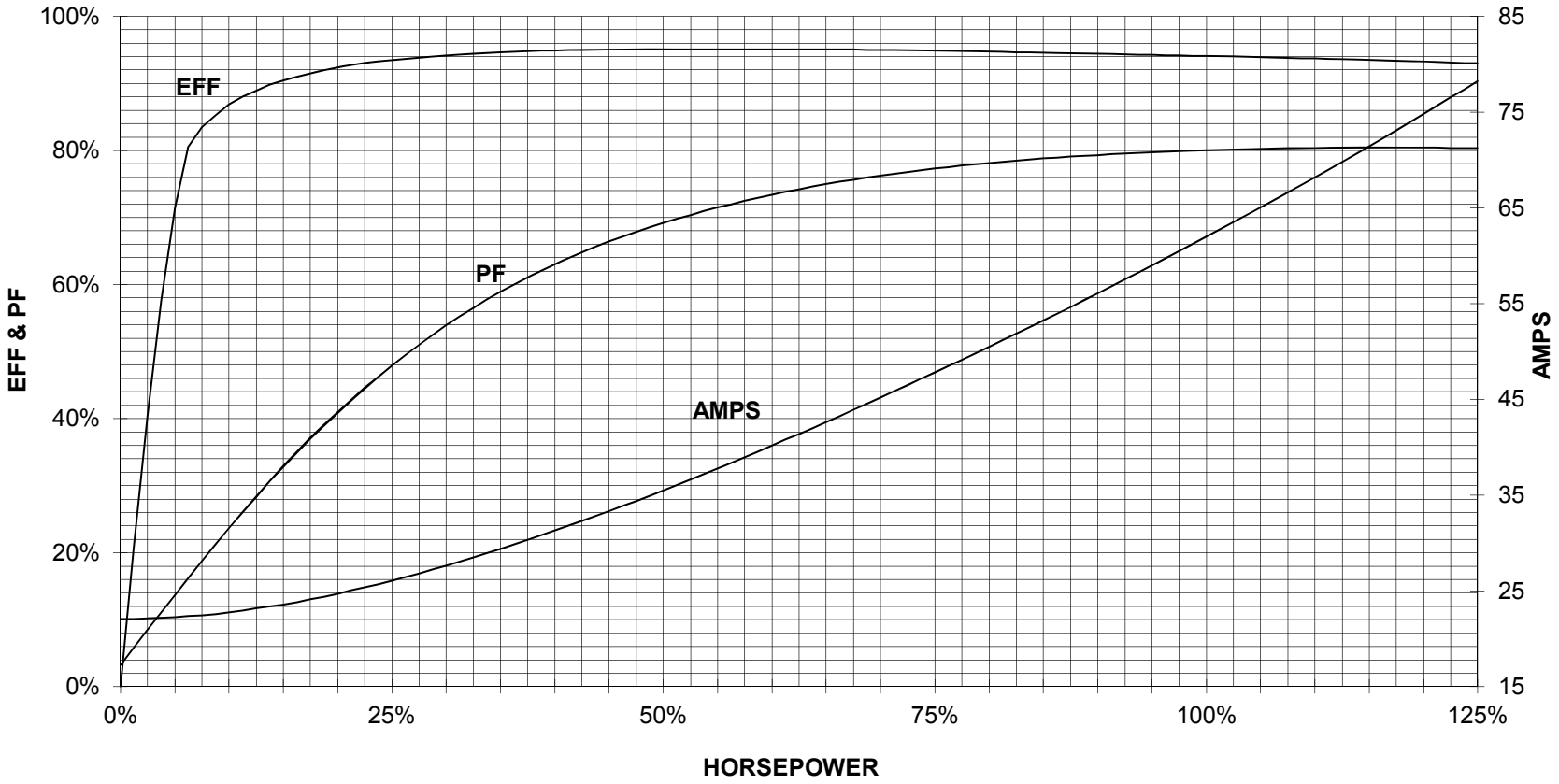
CUSTOMER: _____ ORDER#: _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.
REV. 1

50 HP 1200 RPM 365T 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