

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

**Motor type:** FS: B447T - 6p - 150 hp -

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

## Electrical data Class I Division 1 Groups D

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 <sub>A</sub> /T <sub>N</sub> LRT [%]	T <sub>k</sub> /T <sub>N</sub> BDT [%]
						4/4	3/4	1/2	0	LRC	4/4	3/4	2/4	4/4	3/4	2/4			
460		60	150.00	-/-	1,190	172.00	133.80	100.60	59.00	1085.0	95.8	96.0	95.6	85.0	82.0	73.0	662.0	140	200

Frame Type: B447T	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:2,051		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65

## Mechanical data

Sound level (SPL / SWL) at 60 Hz	73.0 dB(A) / 84.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz	250 500 1000 2000 4000 8000 Hz	Safe Stall Time Hot	28 s
SPL@3	dB(A)	Safe Stall Time Cold	43 s
Moment of inertia	68.6 Lb-ft <sup>2</sup>	Frame material	cast iron
Ext Load Inertia Capability:	1720.0 Lb ft <sup>2</sup>	Color, paint shade	
<b>Bearings</b>		Coating (paint finish)	
Bearing DE   NDE	6318 Z C3 S0   6316 Z C3 S0	<b>Ventilation Type</b>	
Bearing_Type	Ball Bearing   Ball Bearing	Method of cooling	TEFC
AFBMA:	90BC03JP30   80BC03JP30	Direction of rotation	Bidirectional
<b>Grease</b>		Fan Material	Polypropylen ESD
Capacity	14.5 oz   7.5 oz	VFD	CT: 4:1 VT: 20:1
Grease Type:	Exxon Mobile EM	Space heaters	without
		Brake:	-/-

## Terminal box

Lead Wire Connection	6 LEAD - DELTA	Terminal box position	(3) Mounting - F-1
Voltage	L1 L1 L1 Connected together	Material of terminal box	
---	---	Cable entry	-/-
---	T1 T2 T3		

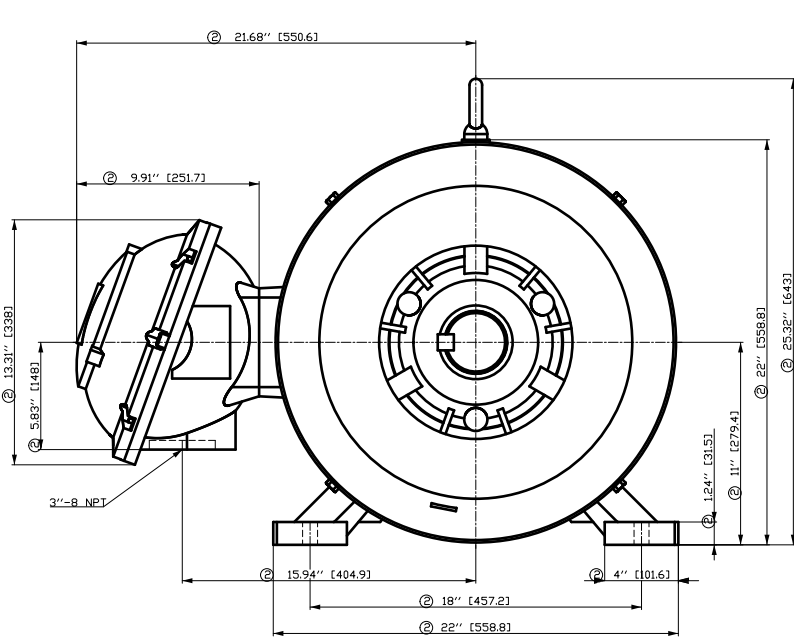
Notes:

I<sub>r</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>r</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>b</sub>/M<sub>N</sub> = 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		

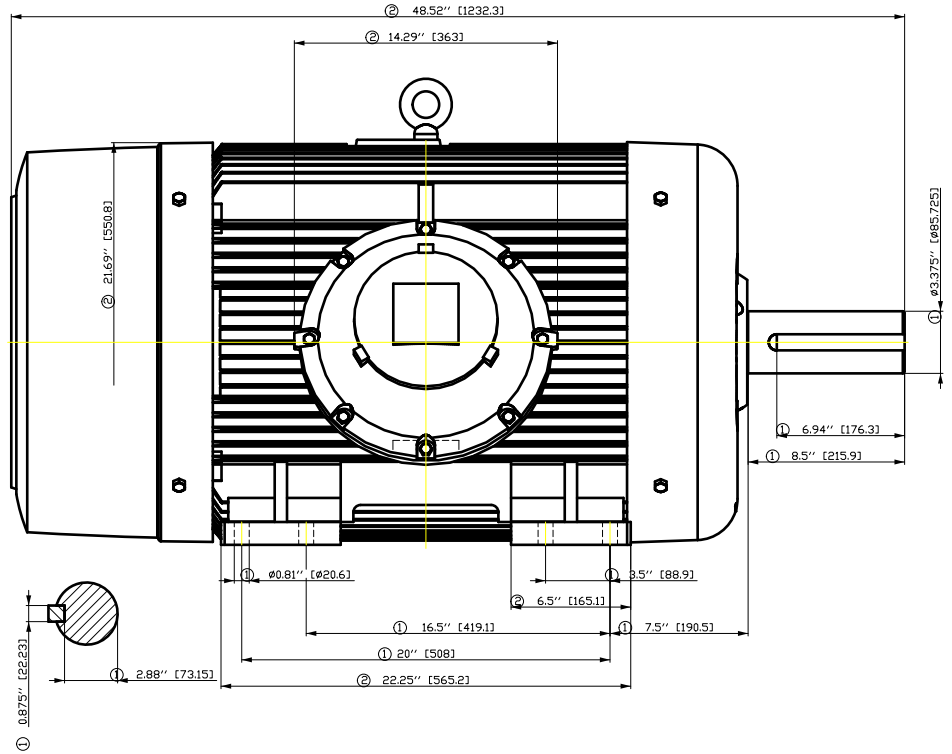
	document type	document status	customer	
	datasheet	released		
	title	document number		
	1MB2221-4EC31-2AA3			
© Siemens AG 2022		rev.	creation date	language Page
		01	2022-04-09 02:27	en 1/1



① Tolerances according to NEMA std.

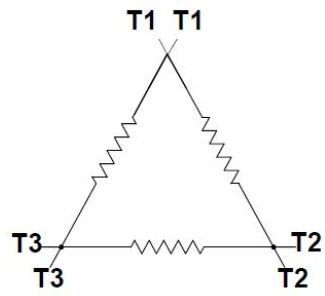
② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.

③ Not according to NEMA std.



Tolerance	Surface	Material	Weight	Scale
FT ÖGGRFÈ ÖÖHFÈÖÖEH È	Author Creator Approval Department Change Order	ÖS T æ : ^æ@` } *	È	{ {
SIEMENS	Doc. State	Item No	Paper Size	CH
	Revision	Index	Doc No	1st Language ^ 2nd Language à^
© Siemens AG 2018	Project No È	Ref No È	Sheet	F of F

Main terminal diagram



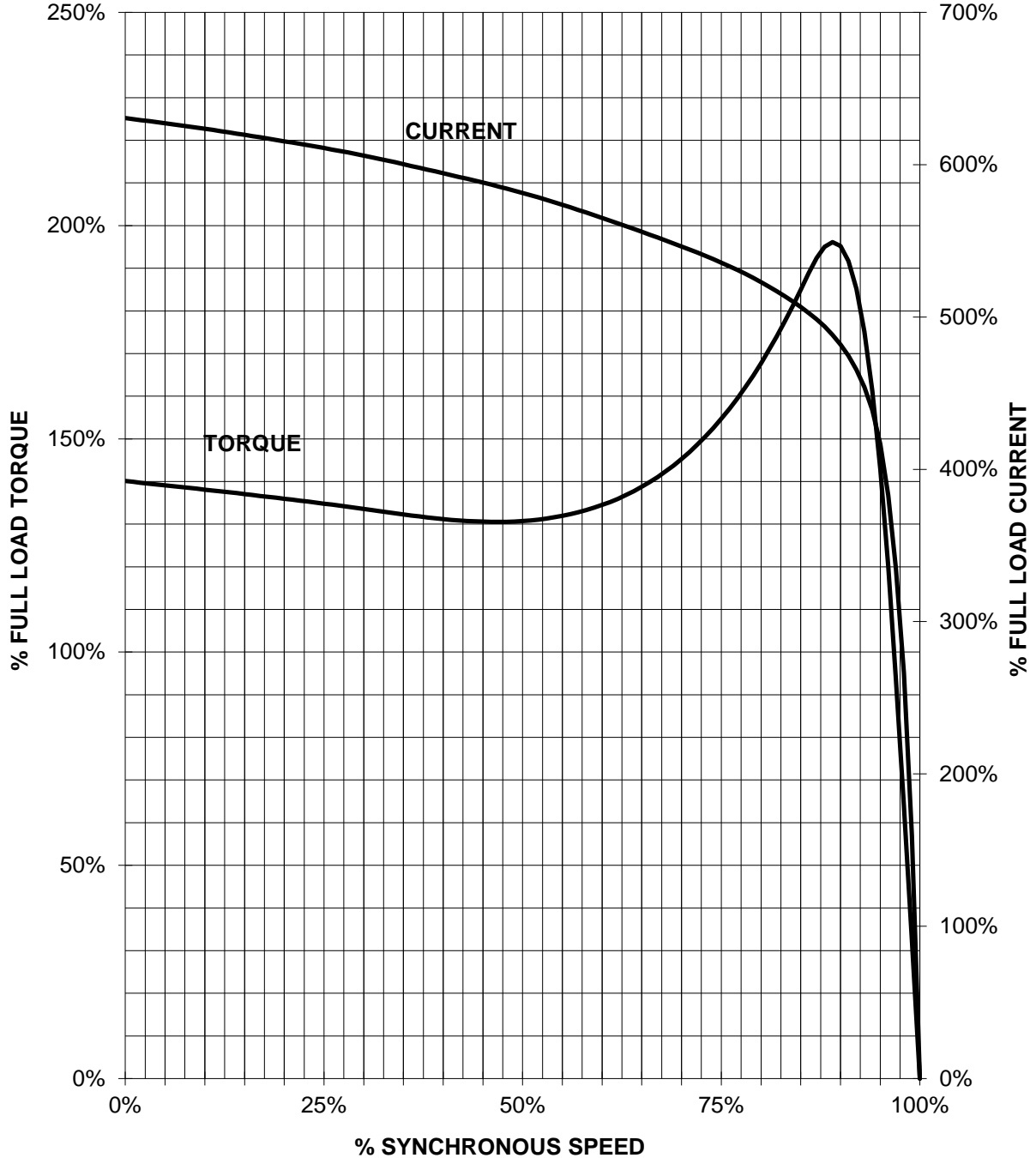
6 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
<b>SIEMENS</b>	document type Wiring Diagram	document status free		customer
	title 1MB2221-4EC31-2AA3	document number		
© Siemens AG 2019		rev. 01	creation date 12/03/2019	language en Page 1/1

# SIEMENS INDUSTRY, INC.

HP 150    VOLTS <600    RPM 1200    TYPE XP100 1D1  
HZ 60    PHASE 3    FRAME B447T    NEMA B

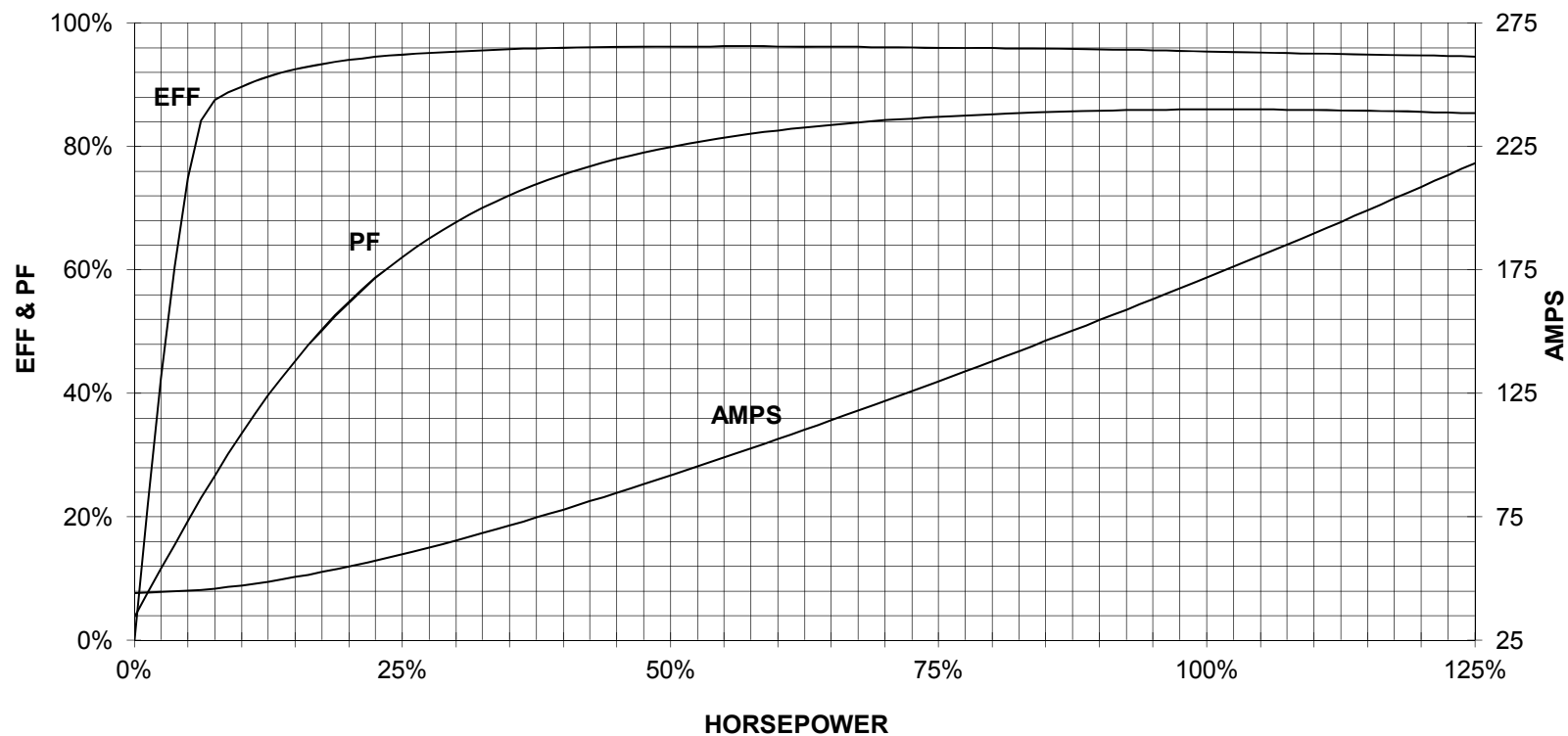
## TORQUE & CURRENT VS. SPEED



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

150 HP 1200 RPM B447T 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