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

Motor type: **FS: 326TS - 2p - 50 hp -**

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

Electrical data

Class I Division 1 Groups D

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	2/4	Pwr. Factor Load [%] 4/4	3/4	2/4	Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
460		60	50.00	-/-	3,535	55.00	41.90	30.40	15.00	363.0	93.6	94.1	93.8	91.0	89.0	82.0	74.0	150	250
230		60	50.00	-/-	3,535	110.00					93.6	94.1	93.8	91.0	89.0	82.0	74.0	150	250

Frame Type: 326TS	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:600		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	77.0 dB(A) / 87.0 dB(A)

Octave Band Center Frequencies Hertz							
250	**500**	**1000**	**2000**	**4000**	**8000**	Hz	
SPL@3						dB(A)	

Moment of inertia	4.4 Lb-ft²
Ext Load Inertia Capability:	49.0 Lb ft²

Bearings		
Bearing DE | NDE	6312 Z C3 S0	6312 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	60BC03JP30	60BC03JP30
Grease		
Capacity	5.5 oz	5.5 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	18 s
Safe Stall Time Cold	37 s
Frame material	cast iron
Color, paint shade	
Coating (paint finish)	
Ventilation Type	
Method of cooling	TEFC
Direction of rotation	Bidirectional
Fan Material	Polypropylen ESD
VFD	CT: 4:1 VT: 20:1
Space heaters	without
Brake:	-/-

Terminal box

Lead Wire Connection			9 LEAD - DELTA	
Voltage	L1	L1	L1	Connected together
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	-- -- --
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9

Terminal box position	(3) Mounting - F-1
Material of terminal box	
Cable entry	-/-

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = 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	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies*

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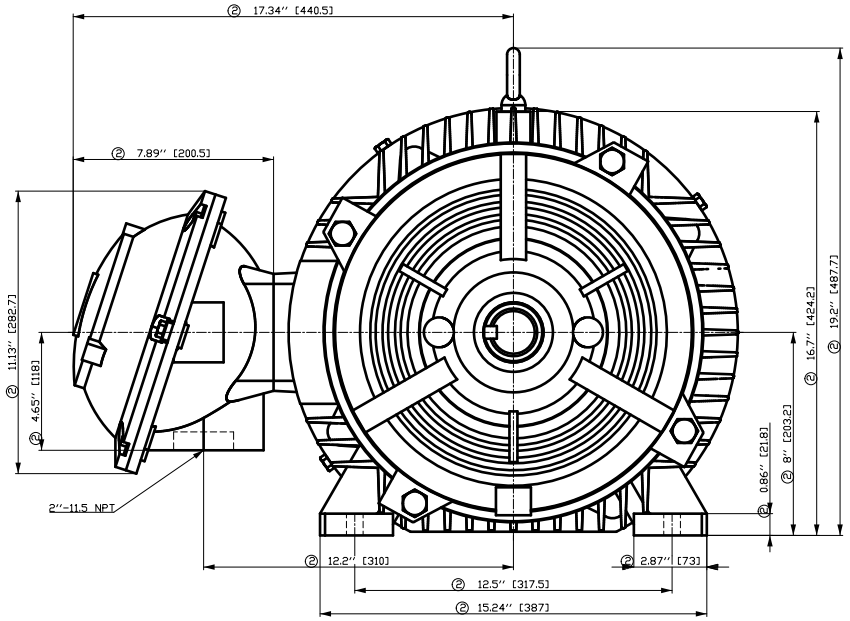
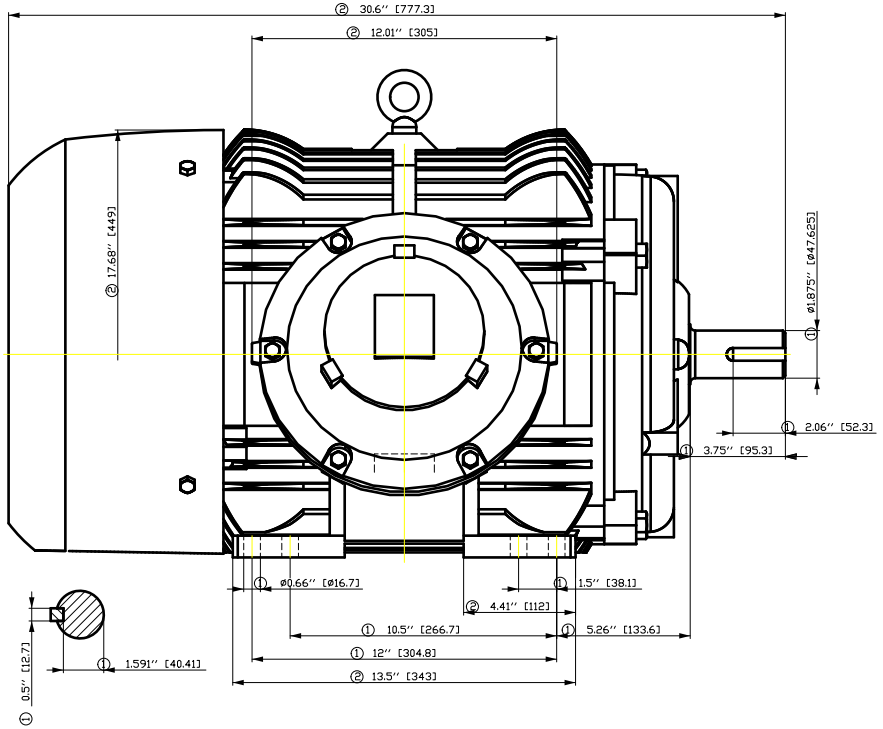
document type	document status	customer
datasheet	released	
title	document number	
1MB2221-3BA21-6AA3		

rev.	creation date	language	Page
01	2022-04-08 21:47	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
			-	mm
1MB2221-3BA21-6AA3	Author	Dimensional drawing		
-	Creator DTK	MaÇzeichnung		
	Approval			
	Department			
	Change Order	MLFB		Doc Type
SIEMENS	Doc State 4/8/22	Item No		Paper Size A3
	Revision Index RS	Doc No		1st Language en 2nd Language de
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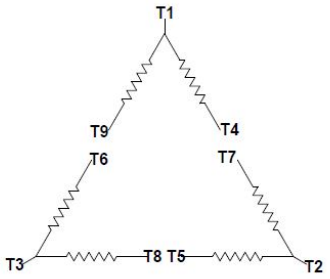
Main terminal diagram



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 1MB2221-3BA21-6AA3		document number		
			rev. 01	creation date 12/03/2019	language en / Page 1/1

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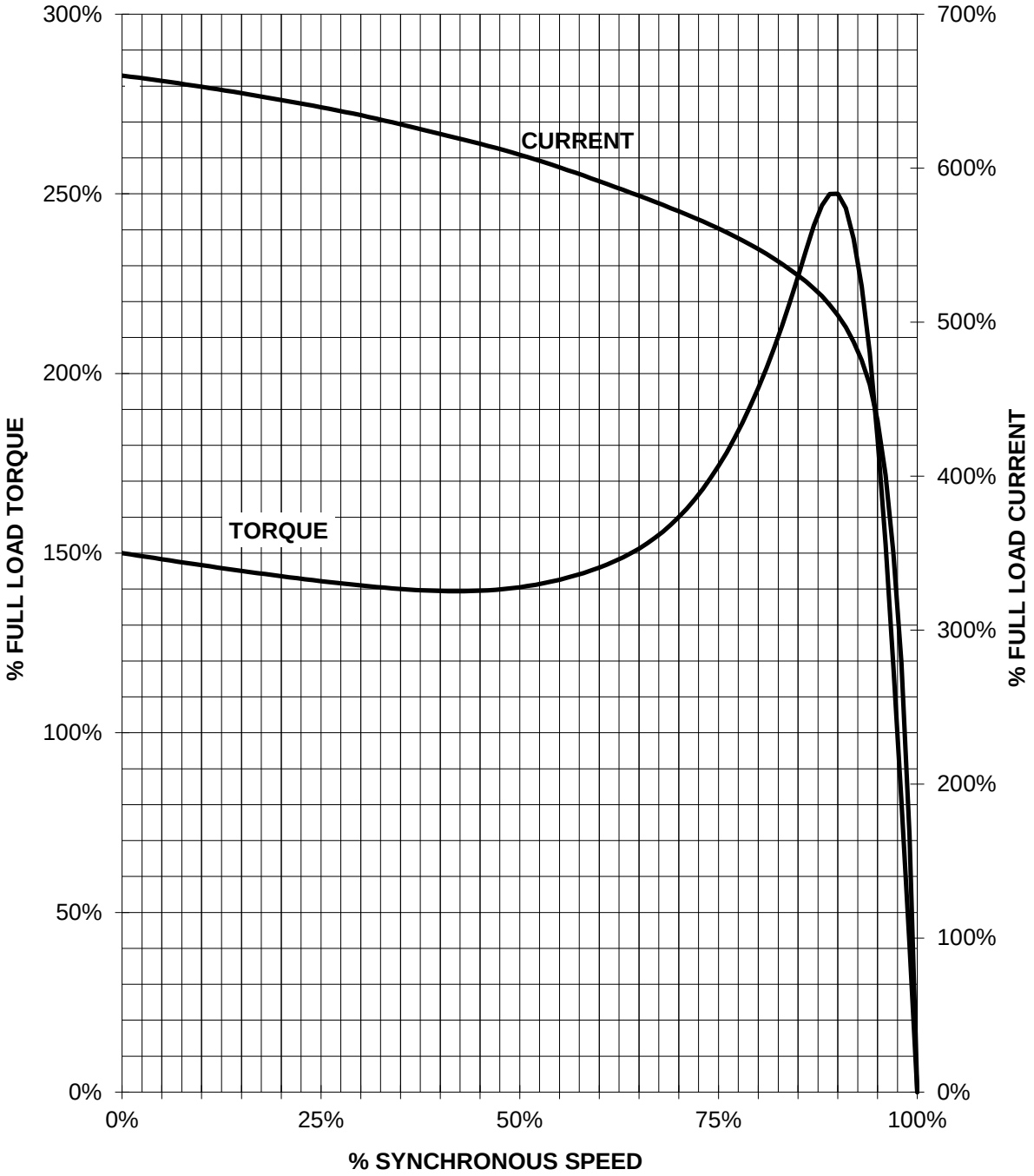
HP	50	VOLTS	<600	RPM	3600	TYPE	XP100 1D1
HZ	60	PHASE	3	FRAME	326TS	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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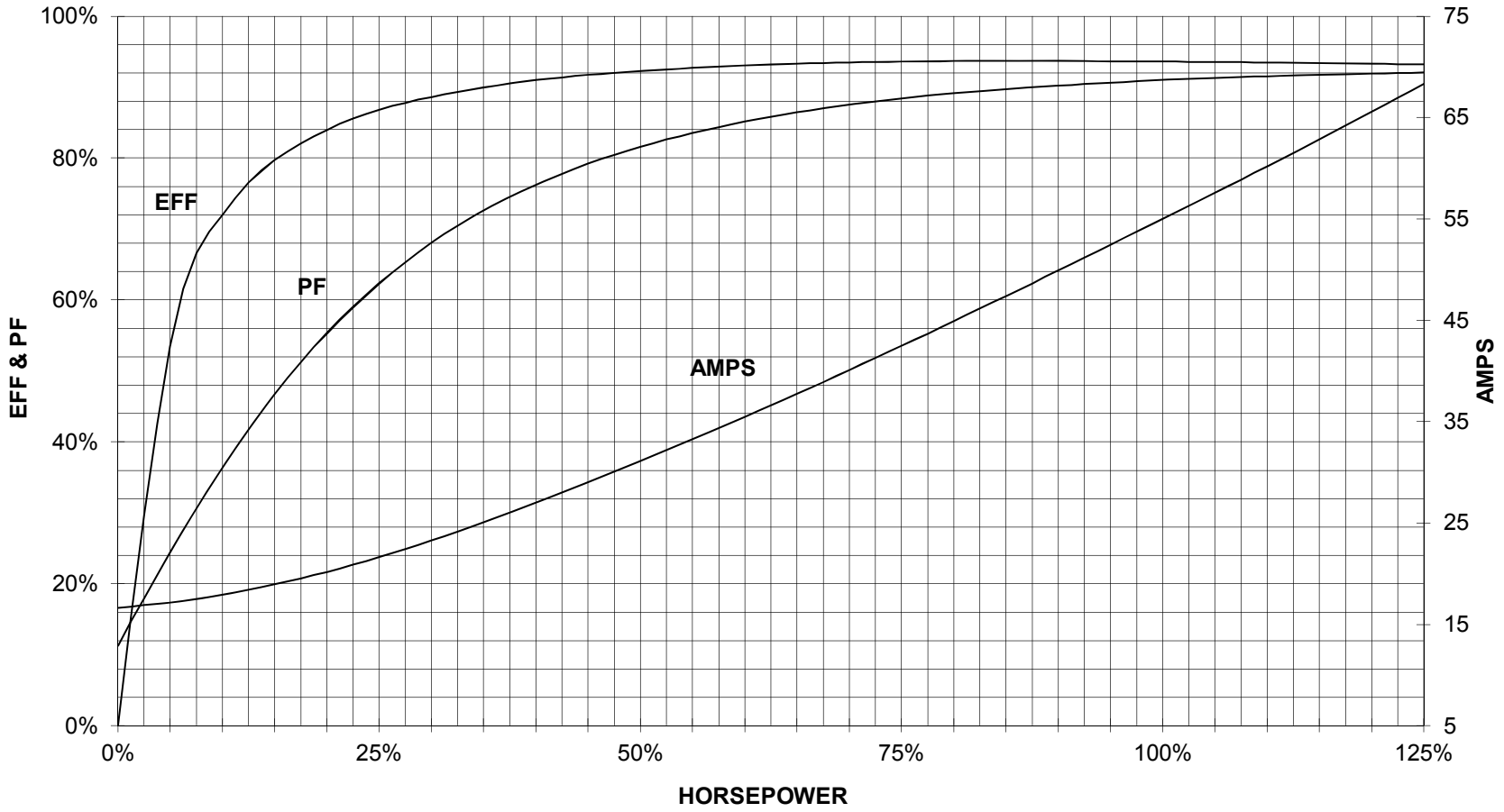
REV. 1

50 HP 3600 RPM 326TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
XP100 1D1



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