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

Motor type: **FS: 444TS - 4p - 125 hp -**

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

Electrical data

Class I, Div 1 Gr. C&D; Class II, Div1, Gr. F&G

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 [%]
575		60	125.00	-/-	1,785	114.40	87.40	62.90	36.00	726.4	95.4	95.6	95.4	86.0	84.0	78.0	368.0	160	200

Frame Type: 444TS	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.:Insulation class F	Motor Prot.:(G) Thermostats, Klixon type, normally closed	NEMA Des.: B	S.F.: 1.15
Mtr. WT:1,596		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: G	IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	75.0 dB(A) / 86.0 dB(A)

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

Moment of inertia	24.4 Lb-ft²
Ext Load Inertia Capability:	542.0 Lb ft²

Bearings

Bearing DE | NDE	6316 Z C3 S0	6316 Z C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	80BC03JP30	80BC03JP30

Grease

Capacity	7.5 oz	7.5 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	20 s
Safe Stall Time Cold	25 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: n/a VT: 20:1
Space heaters	without
Brake:	-/-

Terminal box

Lead Wire Connection	6 LEAD - DELTA			
Voltage	L1	L1	L1	Connected together
-- -- --	-- -- --	-- -- --	-- -- --	-- -- --
-- -- --	T1	T2	T3	-- -- --

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 between calculated and rating plate values*

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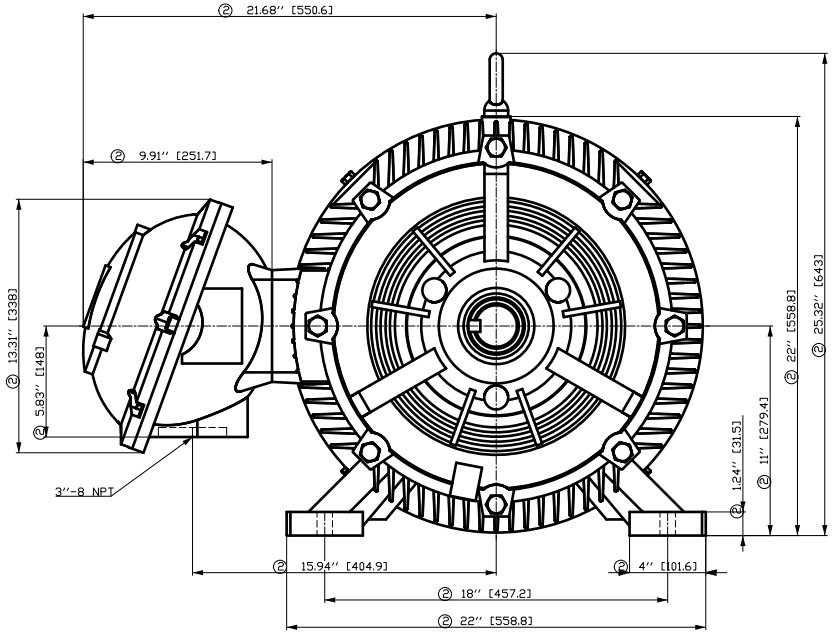
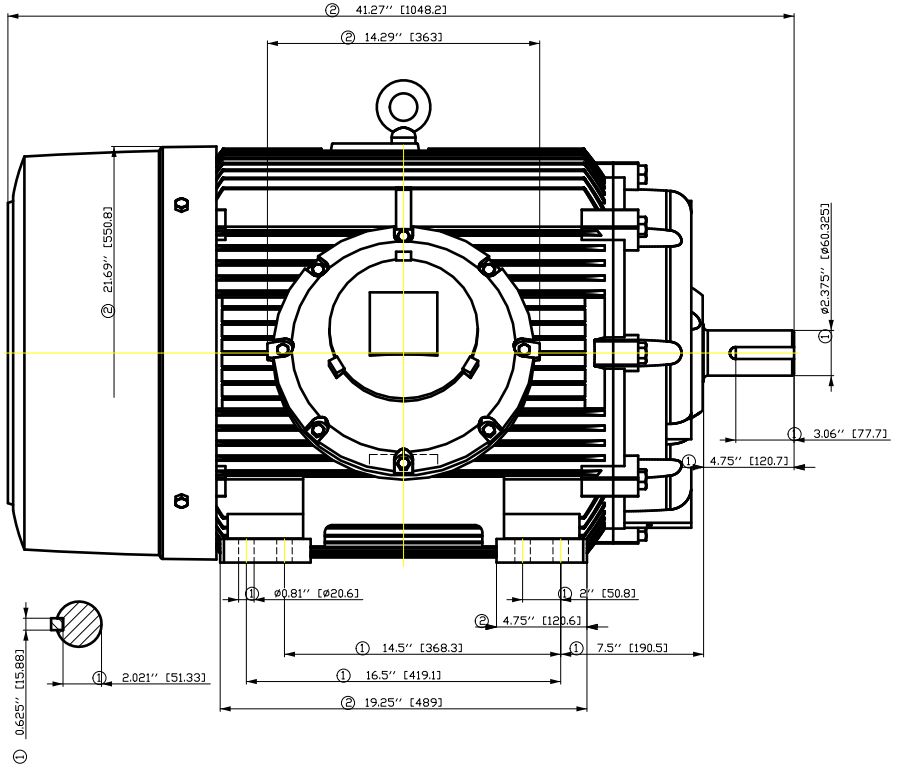
document type	document status	customer		
datasheet	released			
title	document number			
1MB2121-4DB11-3AG3				
	rev.	creation date	language	Page
	01	2022-04-09 02:10	en	1/1





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
1MB2121-4DB11-3AG3 -	Author	Dimensional drawing MaÇzeichnung		
	Creator DTK			
	Approval			
	Department			
	Change Order	MLFB		Doc Type /
SIEMENS	Doc State 4/9/22	Item No		Paper Size A3
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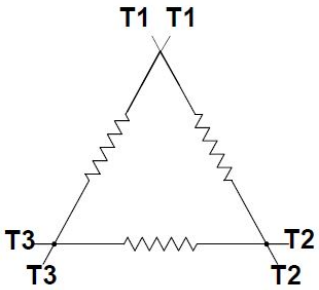
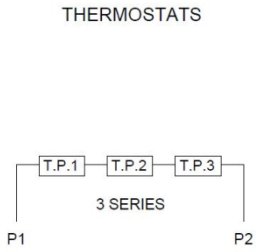
Main terminal diagram



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

Motor protection



responsible dep.	technical reference	created by	approved by	Project			
DI MC LVM							
SIEMENS	document type: Wiring Diagram			document status: free		customer	
	title: 1MB2121-4DB11-3AG3			document number			
				rev.: 01	creation date: 12/03/2019	language: en	Page: 1/1

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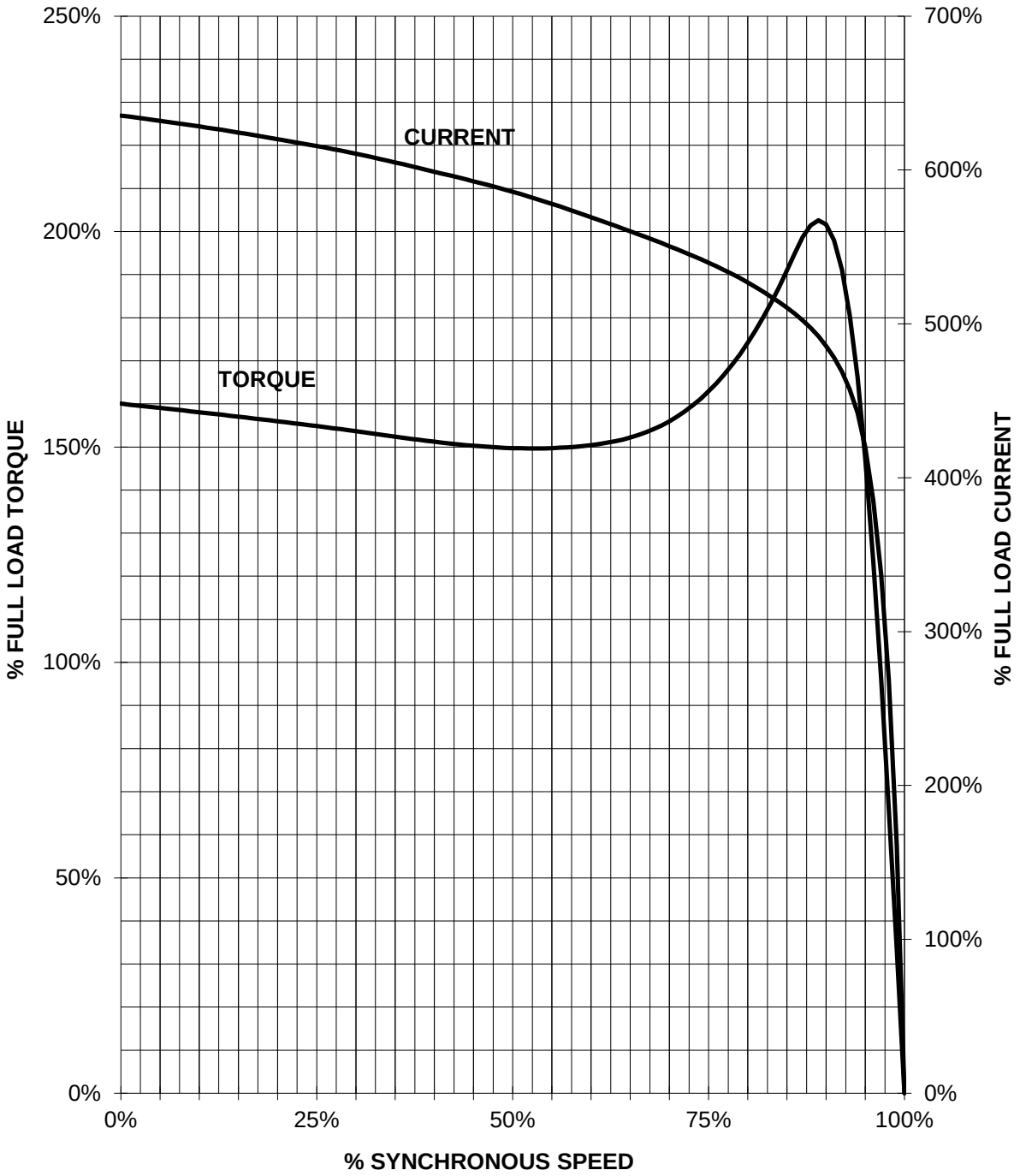
HP	125	VOLTS	<600	RPM	1800	TYPE	XP100
HZ	60	PHASE	3	FRAME	444TS	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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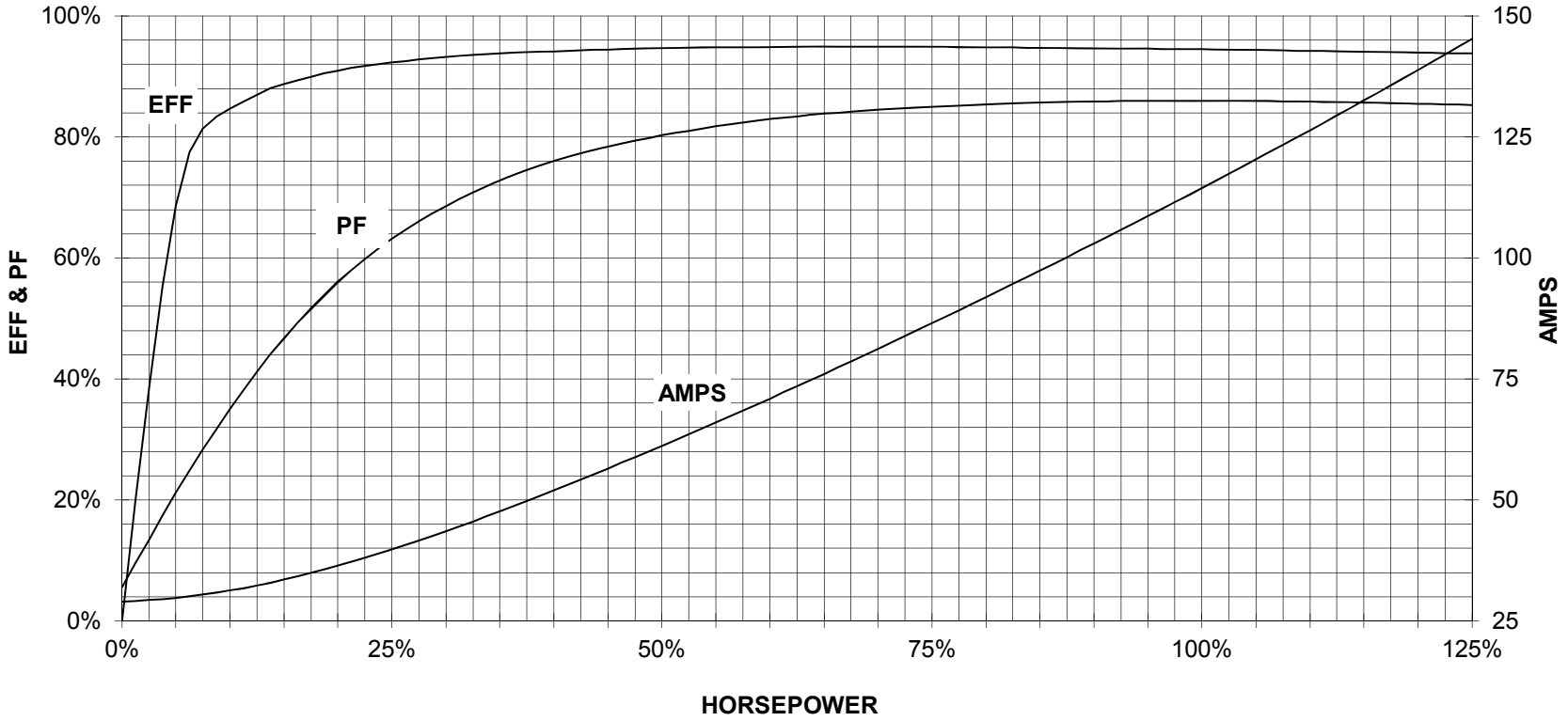
REV. 1

125 HP 1800 RPM 444TS FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
XP100



CUSTOMER_____ ORDER #_____ PO #_____

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REV. 1