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

Motor type: **FS: 449TS - 4p - 300 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 [%]
460		60	300.00	-/-	1,785	338.00	263.60	194.90	114.00	2400.0	96.2	96.3	96.1	86.0	83.0	75.0	882.0	140	200

Frame Type: 449TS	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.:Insulation class F	Motor Prot.:(G) Thermostats, Klixon type, normally closed	NEMA Des.: A	S.F.: 1
Mtr. WT:2,315		Temp. Rise Cl.: B	Amb. Temp.: + to -20 °C @1000 m	kVA: H	IP IP65

Mechanical data

Sound level (SPL / SWL) at 60 Hz	84.0 dB(A) / 95.0 dB(A)

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

Moment of inertia	69.0 Lb-ft²
Ext Load Inertia Capability:	1200.0 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	22 s
Safe Stall Time Cold	30 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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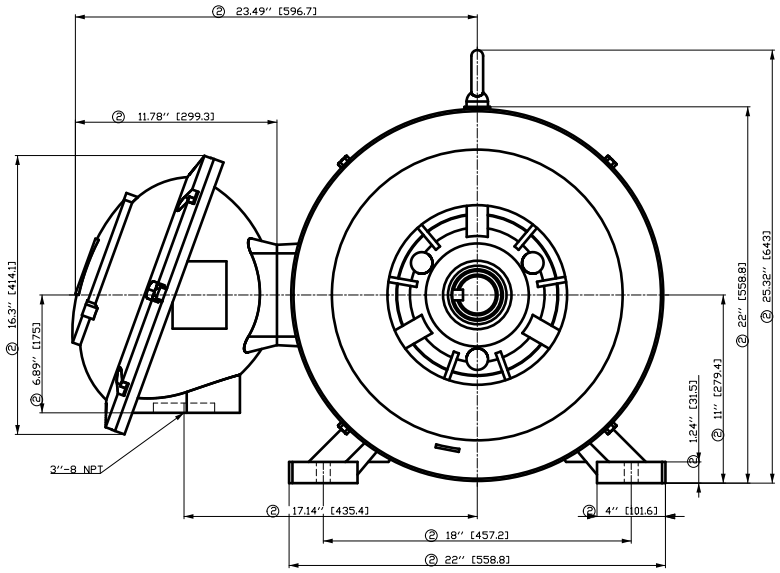
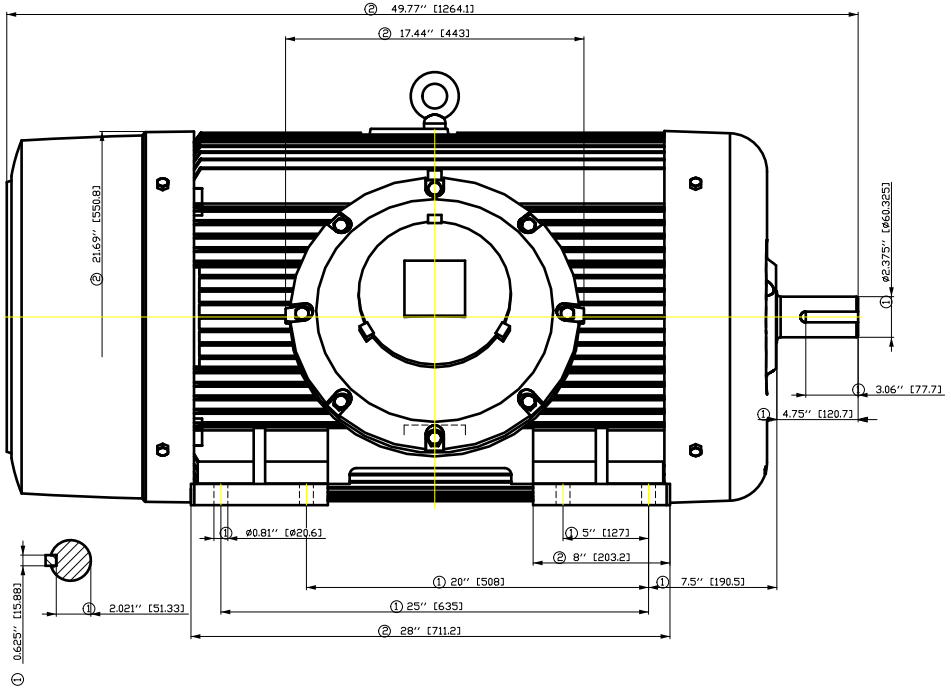
document type	document status	customer
datasheet	released	
title	**document number**	
1MB2121-4DB61-2AG3		

rev.	creation date	language	Page
01	2022-04-09 02:13	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
1MB2121-4DB61-2AG3 -	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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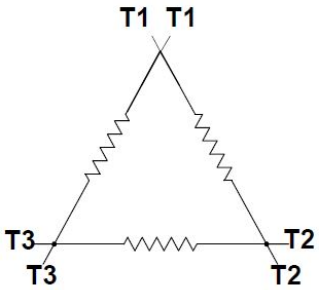
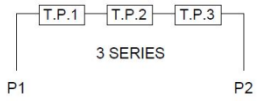
Main terminal diagram



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

Motor protection

THERMOSTATS



responsible dep.	technical reference	created by	approved by	Project			
DI MC LVM							
SIEMENS	document type: Wiring Diagram			document status: free		customer	
	title: 1MB2121-4DB61-2AG3			document number			
				rev.: 01	creation date: 12/03/2019	language: en	Page: 1/1

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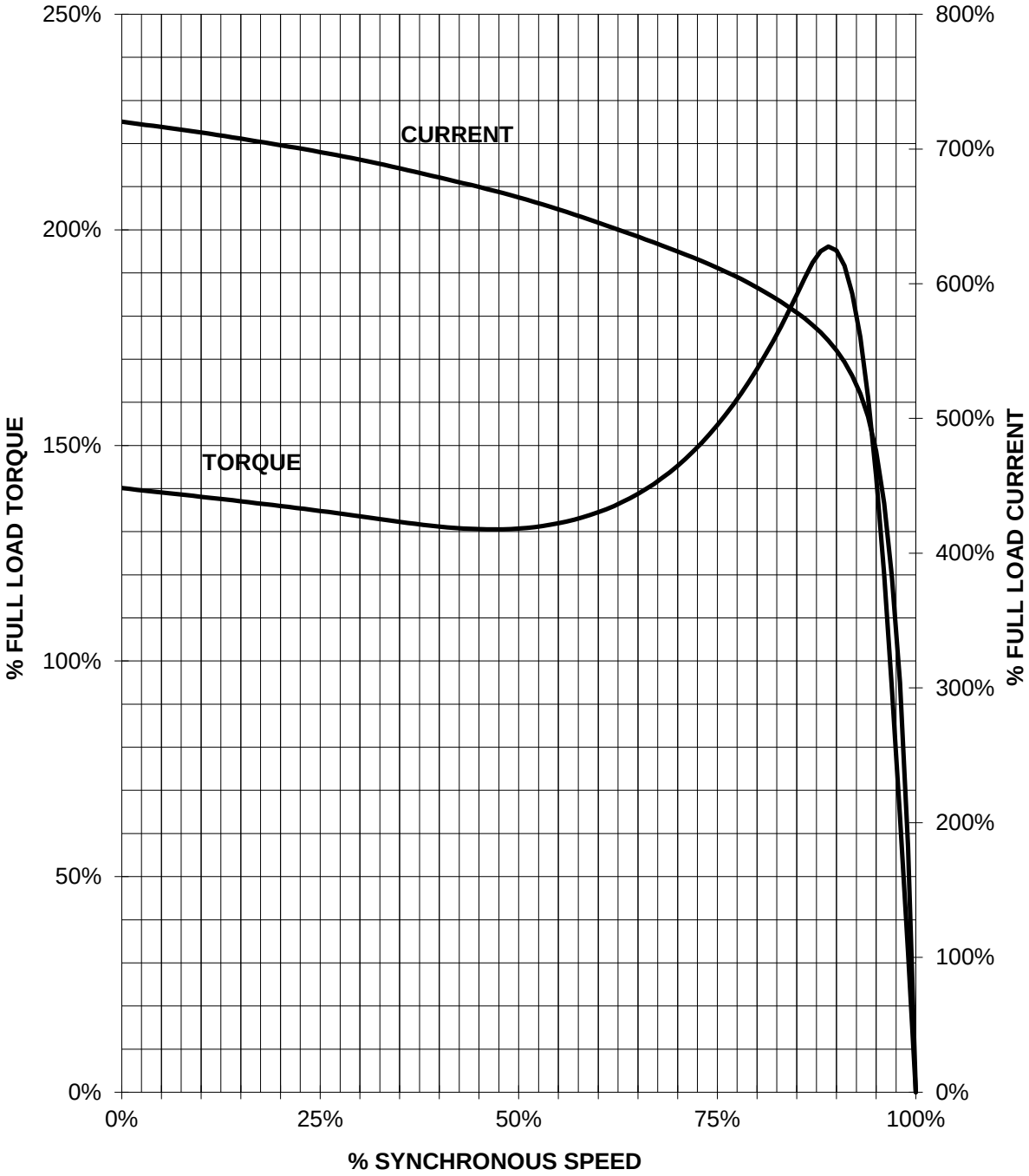
HP	300	VOLTS	<600	RPM	1800	TYPE	XP100
HZ	60	PHASE	3	FRAME	449TS	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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REV. 1

300 HP 1800 RPM 449TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN A

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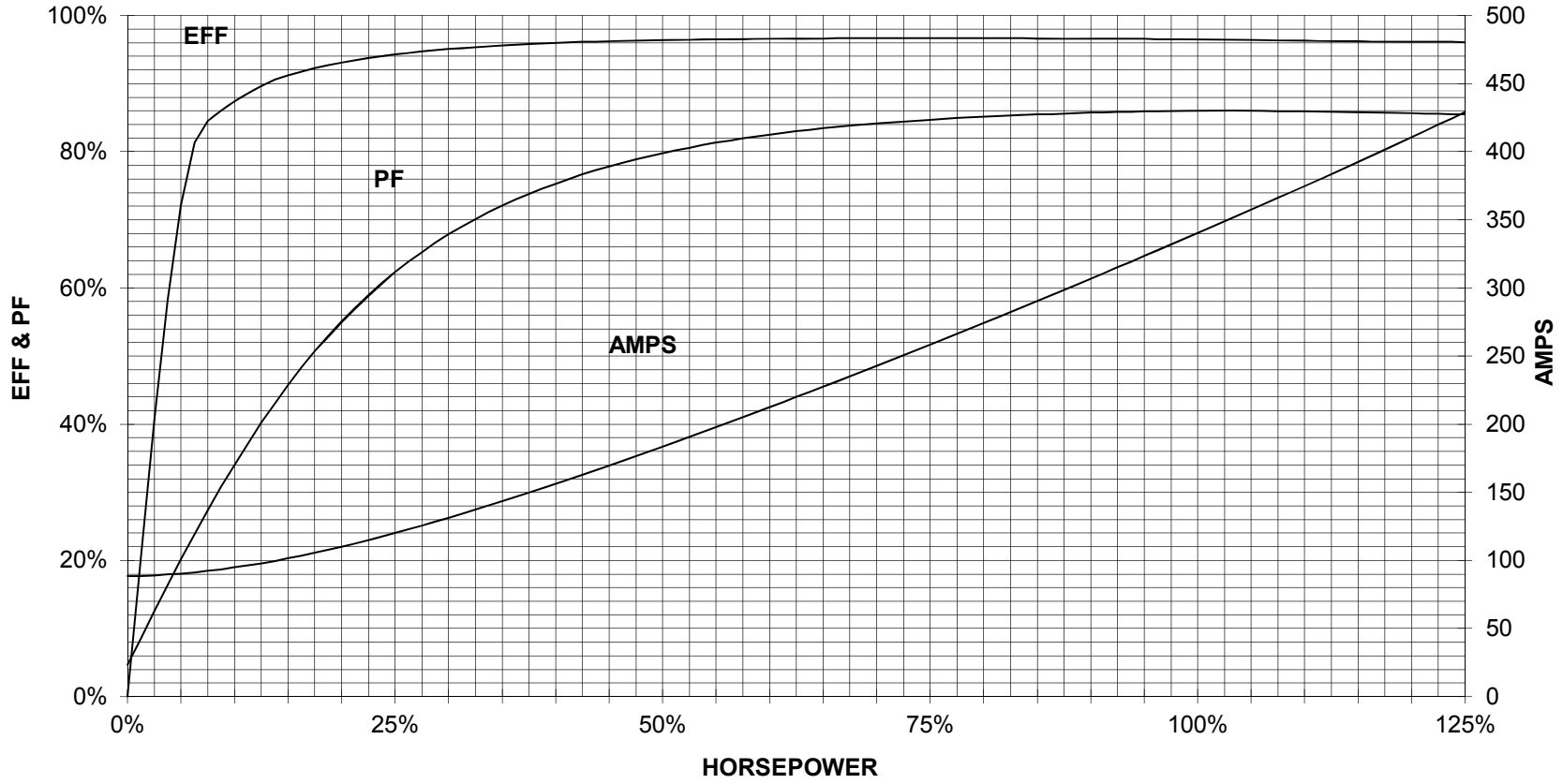
PERFORMANCE CURVE

XP100



CUSTOMER_____ ORDER #_____ PO #_____

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REV. 1