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

Motor type: **GP100** **FS: 445TS - 2p - 150 hp -**

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

Electrical data

without

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	Δ	60	150.00	110.00	3,600	164.00	124.60	88.70	37.00	1085.0	95.0	95.0	94.2	90.0	89.0	84.0	220.0	120	200
400	Δ	50	125.00		2,984	159.63	121.50	86.86	42.90	1058.0	95.0	95.1	94.5	88.1	86.7	81.4	220.1	167	350

Frame Type: 445TS	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.:Standard Class F Insulation	Motor Prot.:(A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT:1,601		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	IP 54

Mechanical data

Sound level (SPL / SWL) at 60 Hz	79.0 dB(A) / 90.0 dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3	67.0	71.0	74.0	74.0	70.0	59.0	dB(A)

Moment of inertia	25.1 Lb-ft²
Ext Load Inertia Capability:	133.0 Lb ft²

Bearings

Bearing DE | NDE	6316 Z C3 S0	6216 ZZ C3 S0
Bearing_Type	Ball Bearing	Ball Bearing
AFBMA:	80BC03JP30	80BC02JPP30

Grease

Capacity	7.5 oz	6 oz
Grease Type:	Exxon Mobile EM	

Thickener	Polyurea
Safe Stall Time Hot	15 s
Safe Stall Time Cold	18 s
Frame material	cast iron
Color, paint shade	Standard Paint - RAL7030
Coating (paint finish)	Standard Alkyed + Epoxy (C2)
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:	without

Terminal box

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

Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Material of terminal box	Cast Iron
Cable entry	3" NPT

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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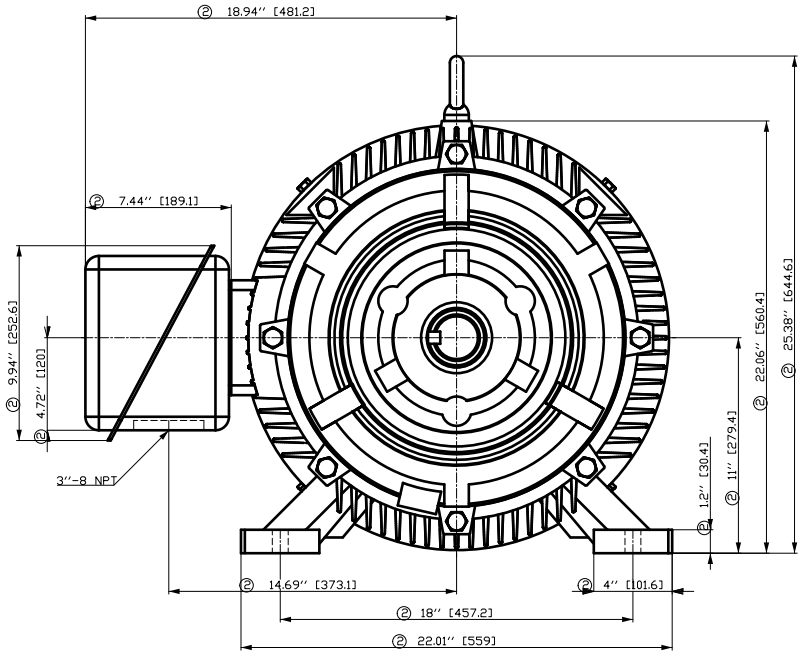
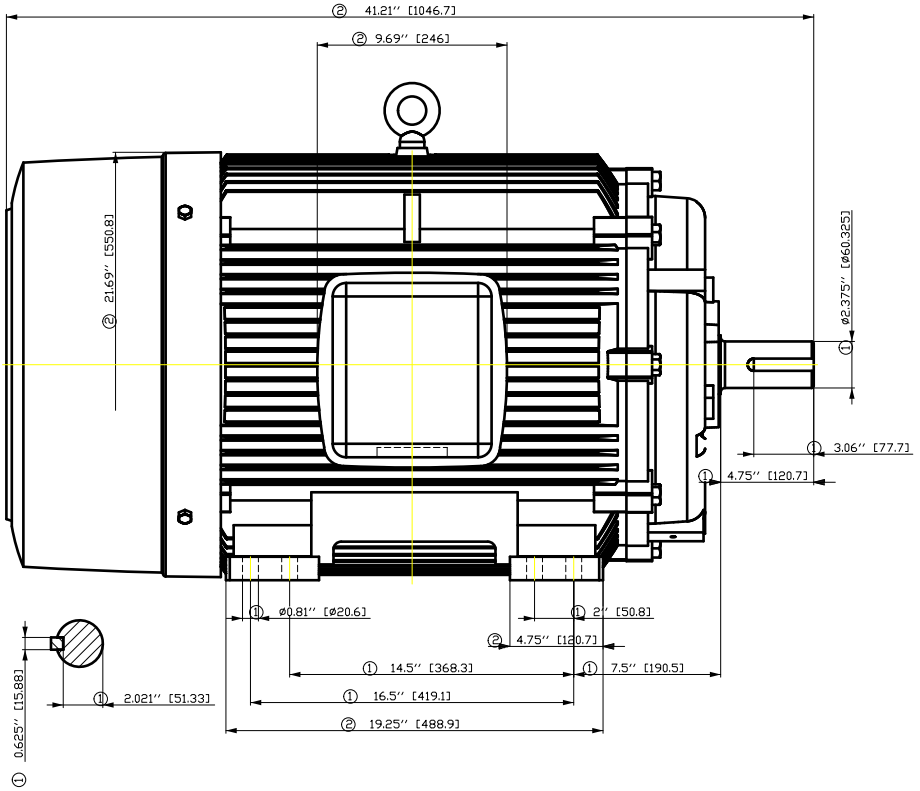
document type	document status	customer
datasheet	released	
title	document number	
1LE2221-4DA21-2AA3		

rev.	creation date	language	Page
01	2022-04-08 22:59	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
1LE2221-4DA21-2AA3 -	Author Creator: DTK Approval Department Change Order	Dimensional drawing MaÇzeichnung	MLFB	Doc Type
SIEMENS	Doc State: 4/8/22 Revision Index RS		Item No	Paper Size: A3
			Doc No	1st Language: en 2nd Language: de
	Project No -		Ref No -	Sheet: 1 of 1

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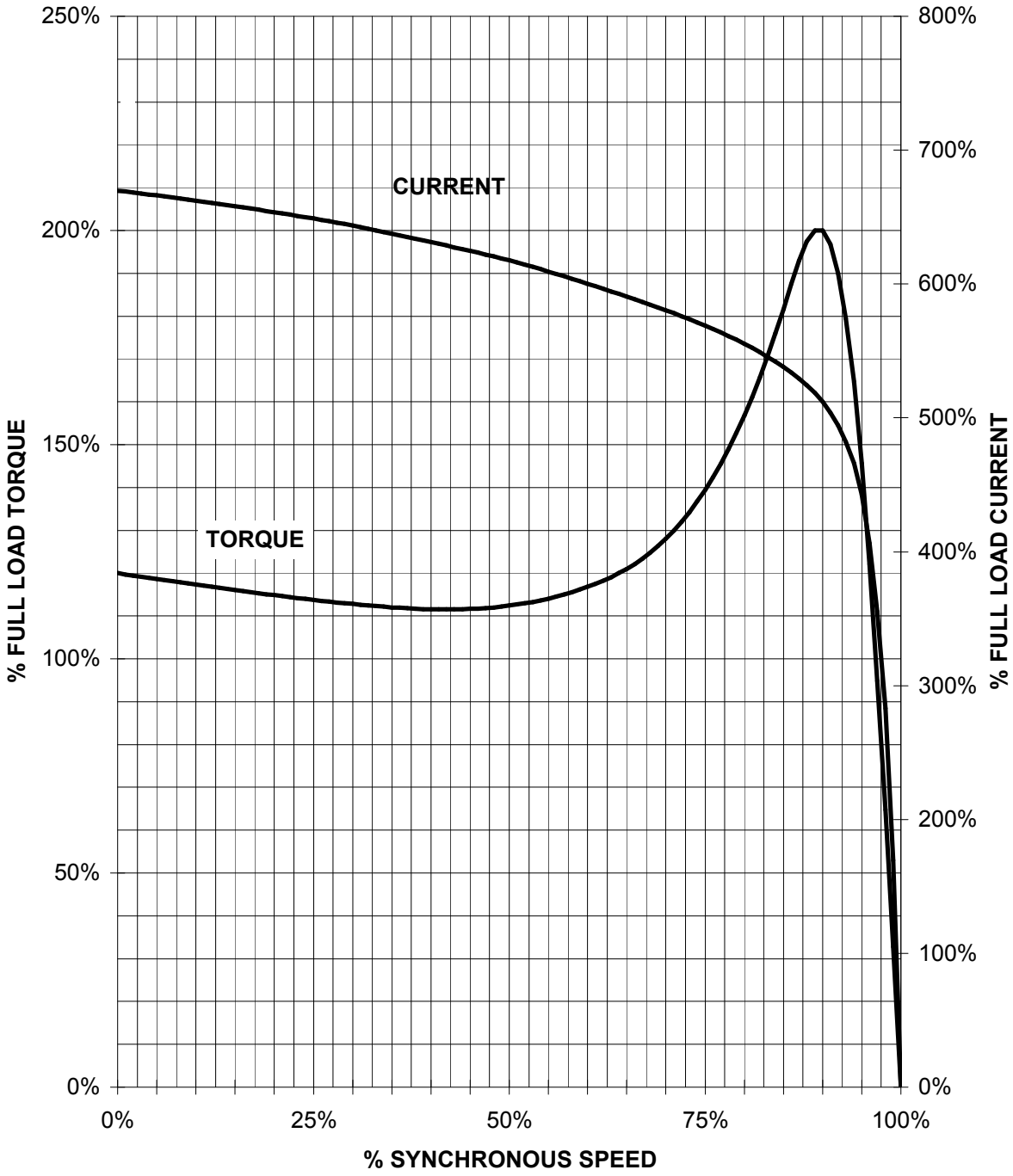
HP	150	VOLTS	< 600V	RPM	3600	TYPE	GP100
HZ	60	PHASE	3	FRAME	445TS	NEMA	B

TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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REV. 1

150 HP 3600 RPM 445TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

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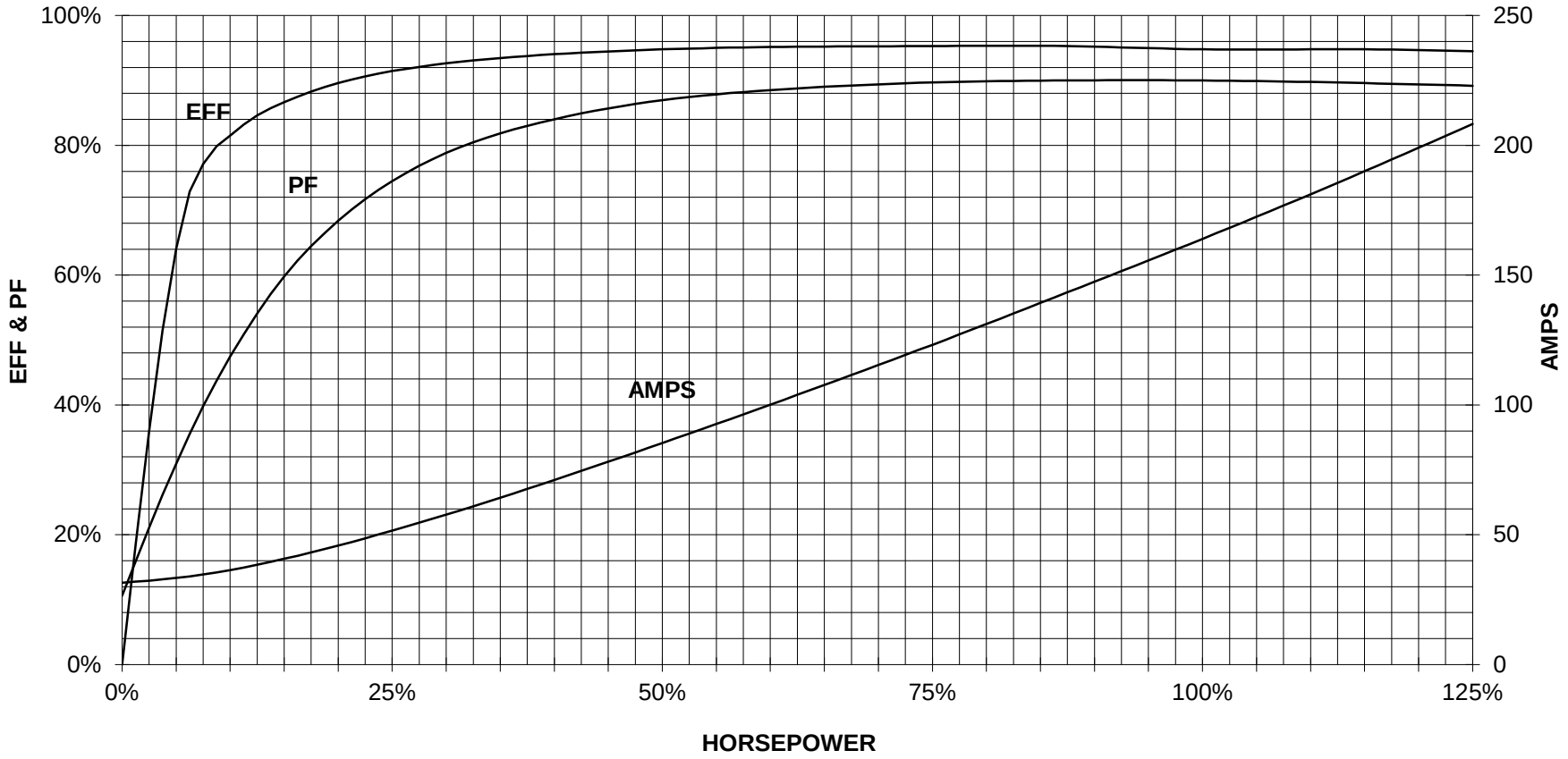
PERFORMANCE CURVE

GP100



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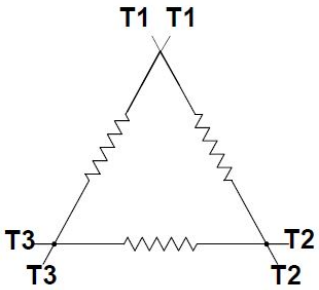
REV. 1

Main terminal diagram



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

responsible dep.	technical reference	created by	approved by	Project	
DI MC LVM					
SIEMENS	document type: Wiring Diagram		document status: free	customer	
	title: 1LE2221-4DA21-2AA3		document number		
		rev.: 01	creation date: 12/03/2019	language: en	Page: 1/1