



Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)

MLFB-Ordering data: **1LE2221-3CC21-6AA3**

Motor type: **GP100 - NEMA Premium Efficiency**

Client order no.:

Order no.:

Offer no.:

Remarks:

Item no.:

Consignment no.:

Project:

U [V]	Δ / Y	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T_A/T_N LRT [%]	T_k/T_N BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	1/2	4/4	3/4	1/2				
460	Δ	60	50.00	37.00	1,185	62.00	49.00	37.20	24.00	363.0	94.1	94.3	94.0	80.0	76.0	67.0	222.0	190	220	
230	$\Delta \Delta$	60	50.00	37.00	1,185	124.00	97.99	74.34	48.00	726.0	94.1	94.3	94.0	80.0	76.0	67.0	222.0	190	220	

Frame Type 365T	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.: F	Motor Prot.: (A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr WT: 863 lbs	Mounting: (3) F-1, Standard Floor Mount, T. Box LHS	Temp. Rise Cl.: B	Amb. Temp.: +40 to -20 °C @1000 m	kVA: G	IP54

Mechanical data

WK2

Rotor Moment of Inertia:	16	Lb-ft ²
Ext Load Inertia Capability:	620.0	Lb-ft ²

Safe Stall Time

Hot:	29.0	s
Cold:	55.0	s

Typical Noise Data

A-weighted Sound		
Sound Pressure:	71.0	dB(A)
Sound Power:	60.0	dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	48.0	53.0	54.0	53.0	52.0	50.0	dB(A)

Bearings

	DE	NDE
Bearing size:	6314 Z C3 S0	6214 ZZ C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	70BC03JP30	70BC02JPP30

Grease

Capacity:	7.50	oz	6.70	oz
Type:	Exxon Mobile EM			
Thickener:	Polyurea			

Frame

Frame material:	cast iron
Coating (paint finish):	Standard Paint
Color, paint shade:	RAL 7030

Terminal box

Terminal box position:	(3) F-1, Standard Floor Mount, T. Box LHS
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Lead Wire Connection

Description:	9 LEAD - DELTA				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7 T6	T2 T8 T4	T3 T9 T5	---	$\Delta \Delta$
HIGH	T1	T2	T3	T4 T7-T5 T8-T6	Δ
				T9	

Ventilation Type

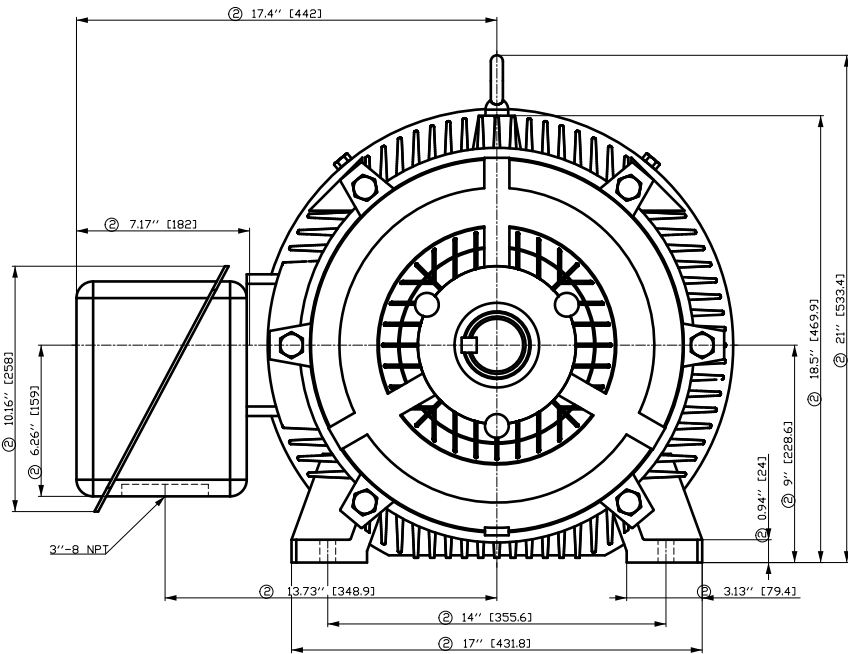
Type of Cooling:	TEFC
Fan Material:	Polypropylen ESD
Fan Rotation:	Bidirectional

Additional information

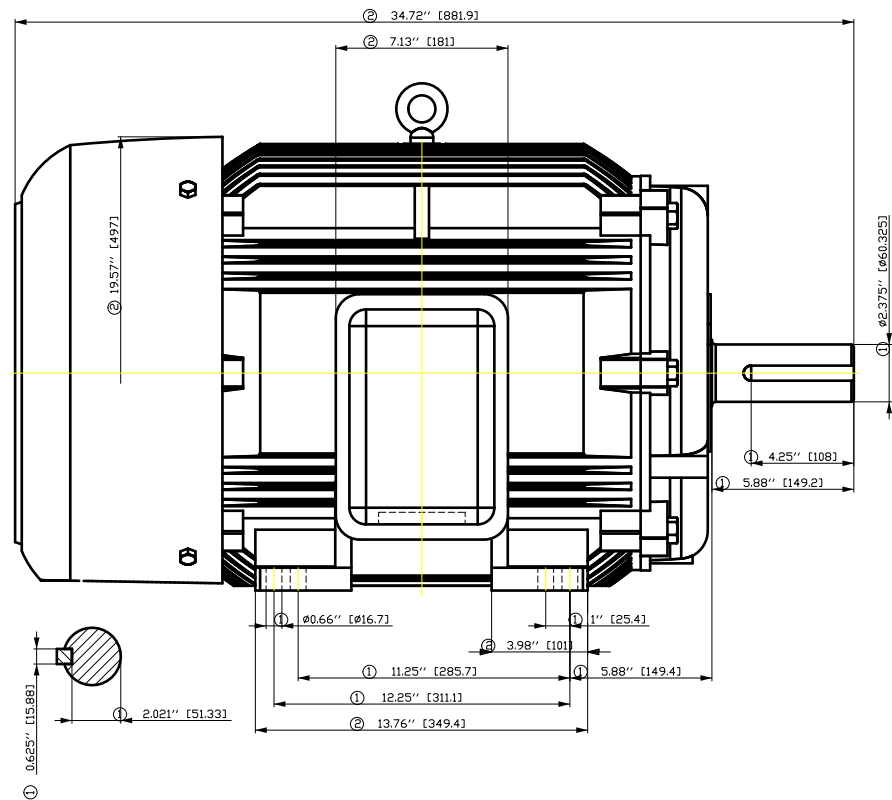
VFD Operation:	CT: 4:1	VT: 20:1
Area: classification:	without	

Notes

I_A/I_N = locked rotor current / current nominal T_k/T_N = break down torque / nominal torque
 T_A/T_N = locked rotor torque / torque nominal ¹⁾ Value is valid only for DOL operation with motor design IC411



- 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.

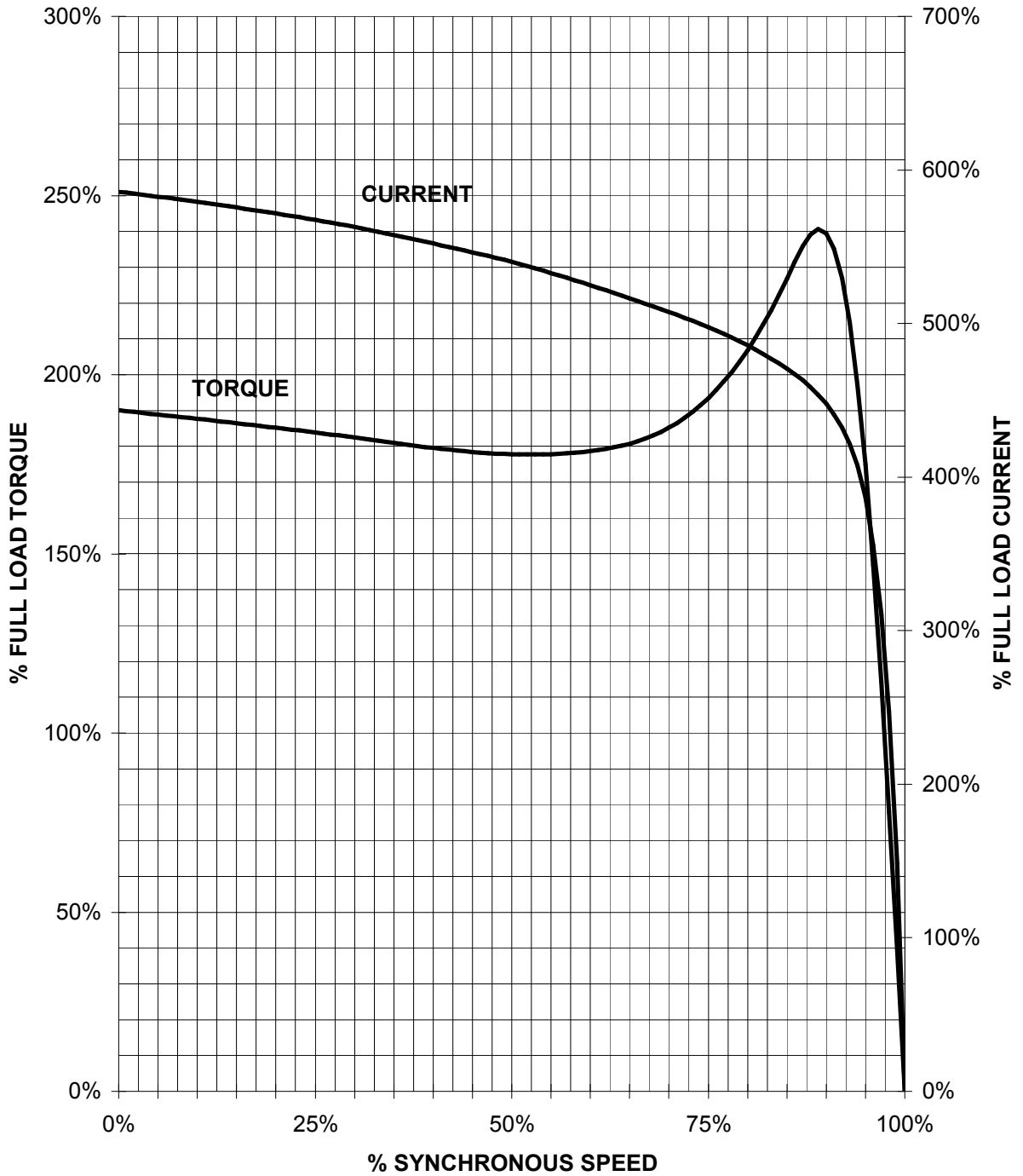


Tolerance	Surface	Material	Weight	Scale
F50CGGFH00GF00EH E	Author Creator Approval Department Change Order	ÖVS T a : ^ & @ } *	E	{ {
SIEMENS	Doc. State	Item No	Doc Type	Paper Size
	Revision	Index	Doc No	1st Language 2nd Language
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SIEMENS INDUSTRY, INC.

HP 50 VOLTS < 600V RPM 1200 TYPE GP100
HZ 60 PHASE 3 FRAME 365T NEMA B

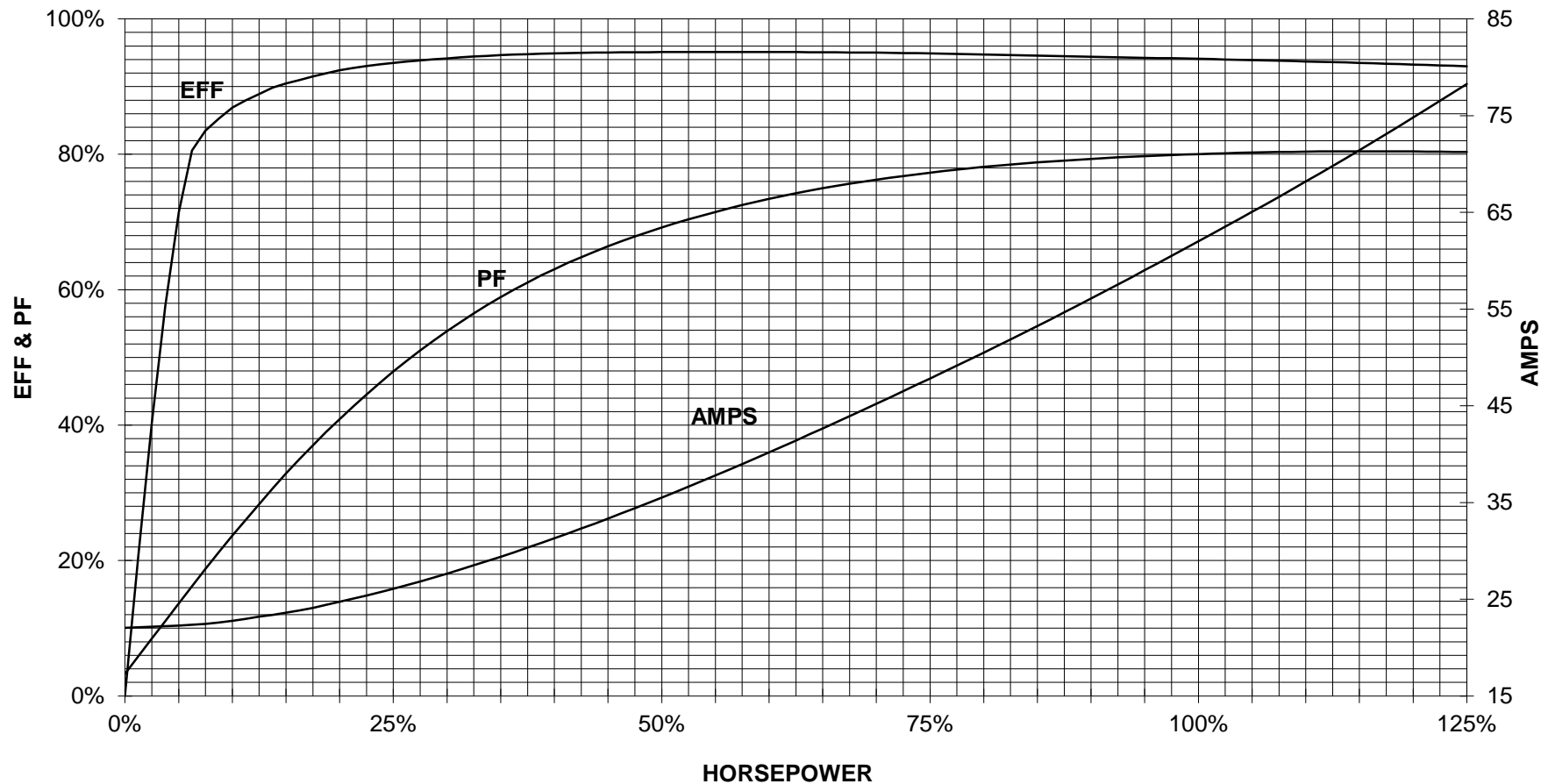
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

50 HP 1200 RPM 365T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100

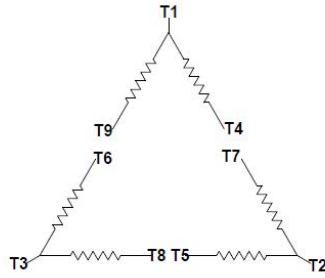


CUSTOMER _____ ORDER # _____ PO # _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.

REV. 1

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
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