

Data sheet for three-phase Squirrel-Cage-Motors

Totally Enclosed Fan Cooled (TEFC)



MLFB-Ordering data: **1LE2321-4DC31-2AA3**

Motor type: **SD100 - 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	150.00	110.00	1,190	172.00	133.80	100.60	59.00	1085.0	95.8	96.0	95.6	85.0	82.0	73.0	662.0	140	200	
Frame Type 447TS			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: 2,006 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		IP55					

Mechanical data

WK2

Rotor Moment of Inertia:	68	Lb-ft ²
Ext Load Inertia Capability:	1720.0	Lb-ft ²

Safe Stall Time

Hot:	28.0	s
Cold:	43.0	s

Typical Noise Data

A-weighted Sound		
Sound Pressure:	75.0	dB(A)
Sound Power:	64.0	dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	55.0	59.0	60.0	57.0	50.0	42.0	dB(A)

Bearings

	DE	NDE
Bearing size:	6316 Z C3 S0	6316 Z C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	80BC03JP30	80BC03JP30

Grease

Capacity:	7.50	oz	7.50	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:	6 LEAD - DELTA				
Voltage	L1	L2	L3	Connected together	
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---	T1	T2	T3	---	
				Δ	

Ventilation Type

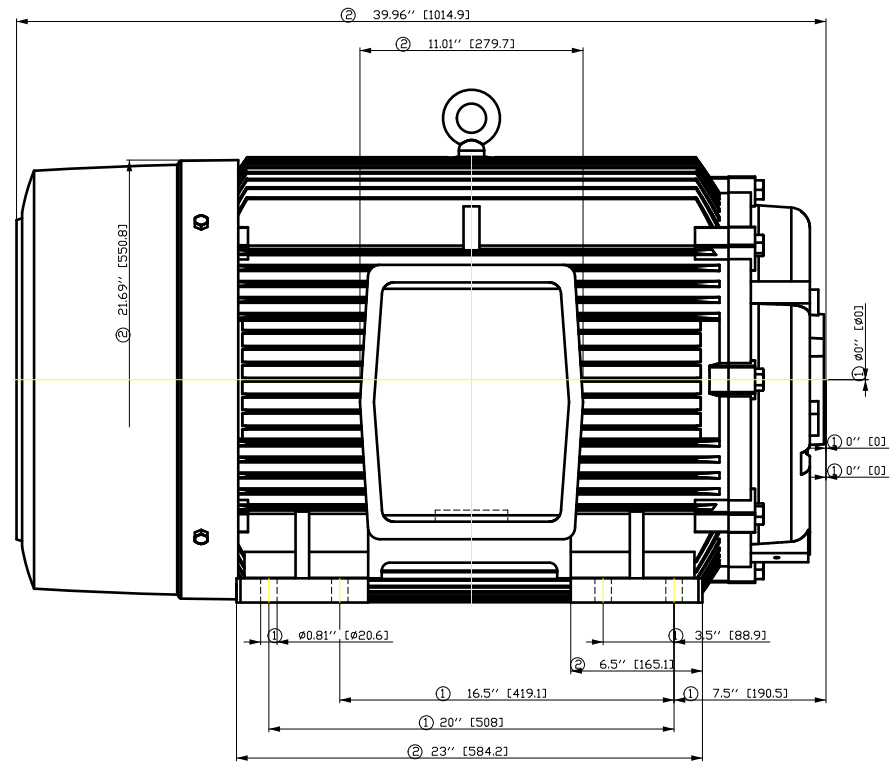
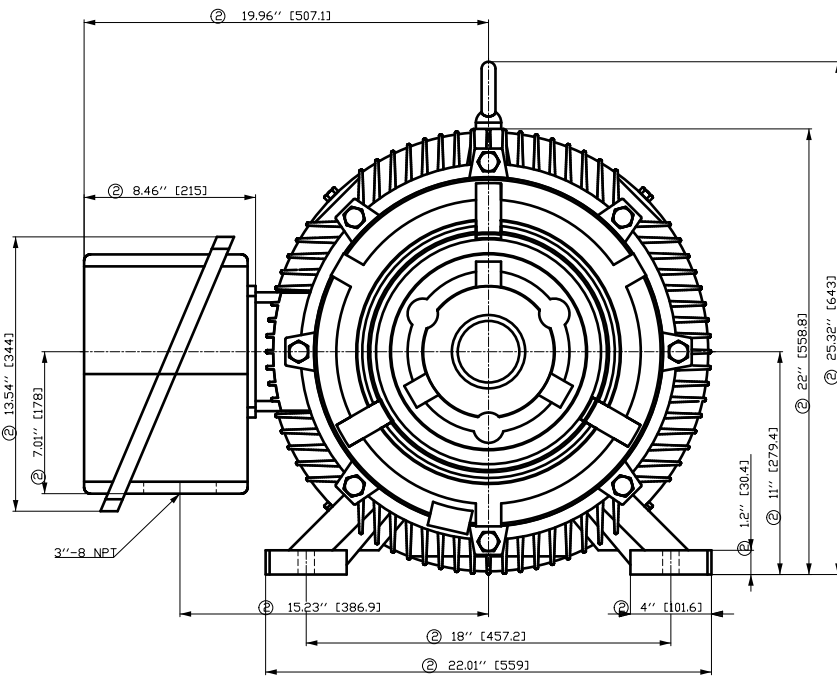
Type of Cooling:	TEFC
Fan Material:	Polypropylen ESD
Fan Rotation:	Bidirectional

Additional information

VFD Operation:	CT: 4:1	VT: 20:1
Area: classification:	Class I Division 2 Gr. A, B, C or D	

Notes

I_L/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



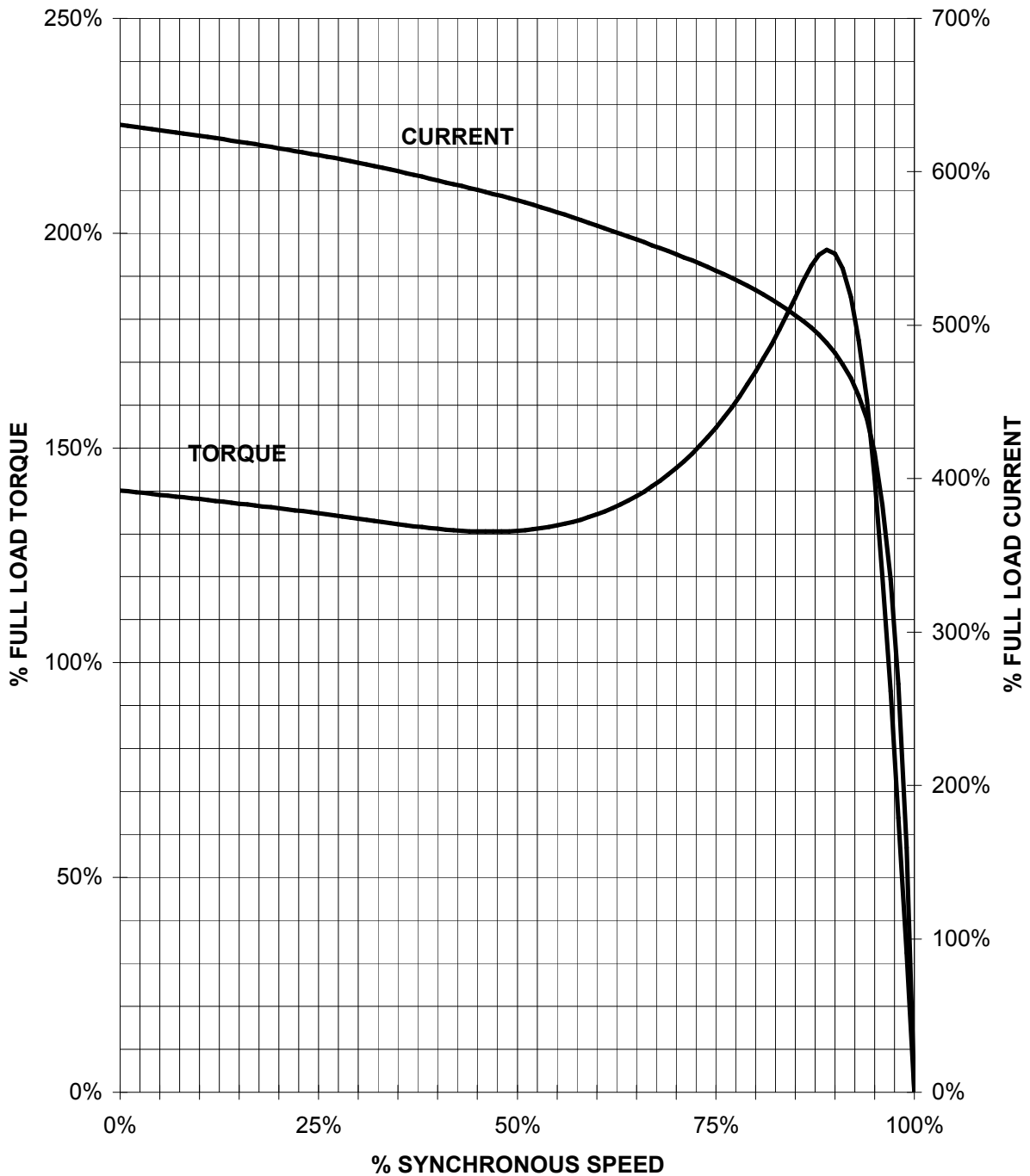
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
F50G-GFB ÖÖ-FE00H E	Author Creator Approval Department Change Order	ÖS Tæ: ^æ@`)*	E	{ {
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	Revision	Index	Doc No	1st Language 2nd Language
	Project No	E	Ref No	E
				Sheet F of F

SIEMENS INDUSTRY, INC.

HP 150 VOLTS < 600V RPM 1200 TYPE SD100
HZ 60 PHASE 3 FRAME 447TS NEMA B

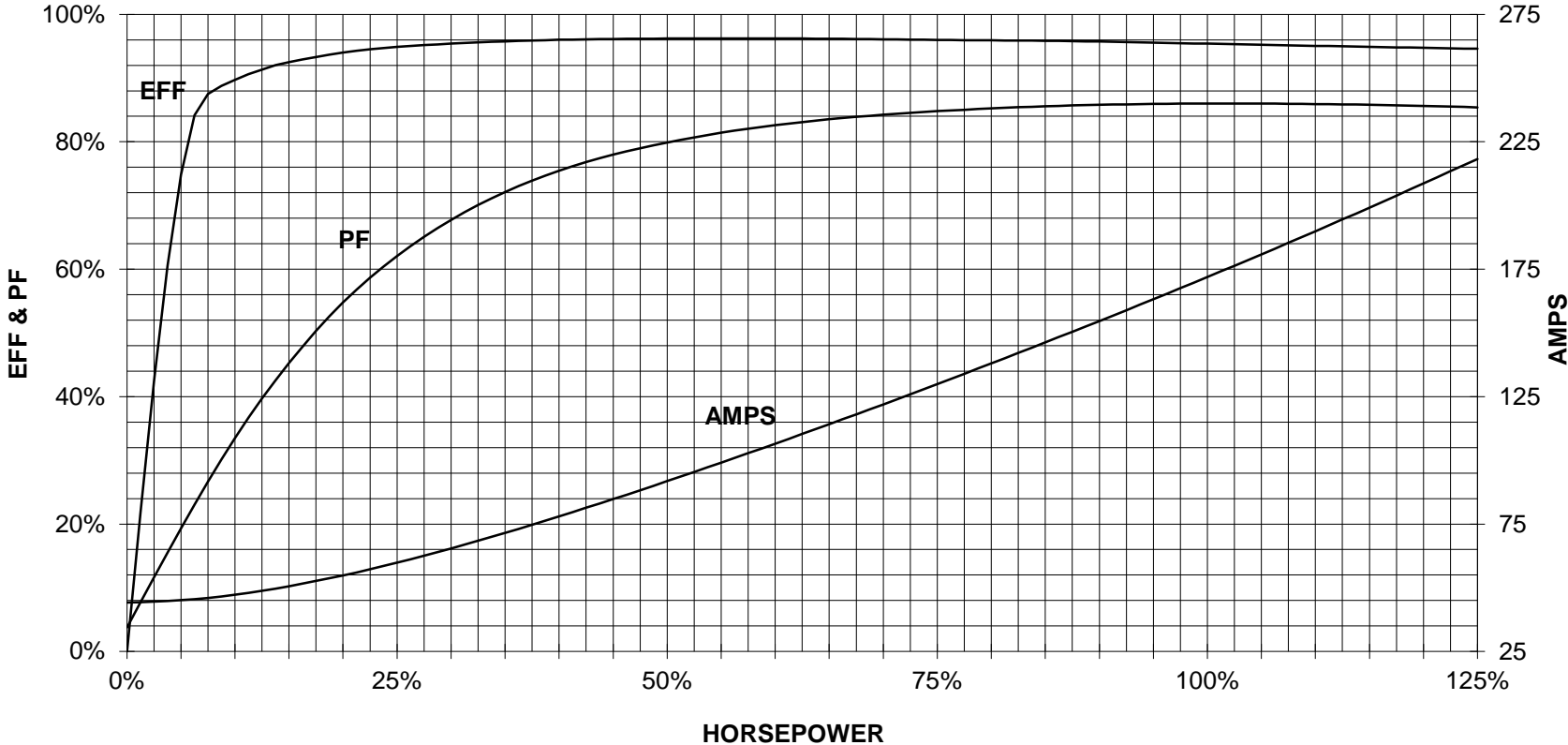
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

150 HP 1200 RPM 447TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

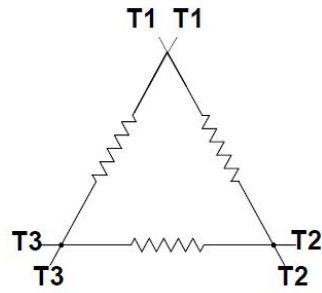
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100




CUSTOMER _____ ORDER # _____ PO # _____

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

Main terminal diagram



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

responsible dep. DI MC LVM	technical reference	created by	approved by	project		
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