

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

Motor type: **SD100** FS: 405TS - 2p - 100 hp -

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

Remarks

Electrical data

Class I Division 2 Gr. A, B, C or D, T3 Class II, Division 2 Gr. F or G

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	2/4	4/4	3/4	2/4			
460	Δ	60	100.00	75.00	3,600	108.00	80.60	55.00	19.00	725.0	94.1	94.7	94.6	92.0	92.0	90.0	147.0	220	200	
400	Δ	50	75.00		2,976	91.40	69.42	49.00	20.45	727.2	94.3	89.7	94.1	91.1	89.7	85.2	130.1	176	339	

Frame Type: 405TS	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: 1,097		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	IP 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	80.0 dB(A) / 91.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	25 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	45 s
SPL@3	67.0	72.0	74.0	74.0	72.0	61.0	dB(A)	Frame material	cast iron
Moment of inertia	12.7 Lb-ft ²							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	92.0 Lb ft ²							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearings								Ventilation Type	
Bearing DE NDE	6316 Z C3 S0			6316 Z C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bidirectional	
AFBMA:	80BC03JP30			80BC03JP30			Fan Material	Polypropylen ESD	
Grease								VFD	CT: 4:1 VT: 20:1
Capacity	7.5 oz			7.5 oz			Space heaters	without	
Grease Type:	Exxon Mobile EM							Brake:	without

Terminal box


Lead Wire Connection	3 LEAD - DELTA				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS	
Voltage	L1	L1	L1	Connected together	Material of terminal box	Cast Iron	
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----	T1	T2	T3	----			

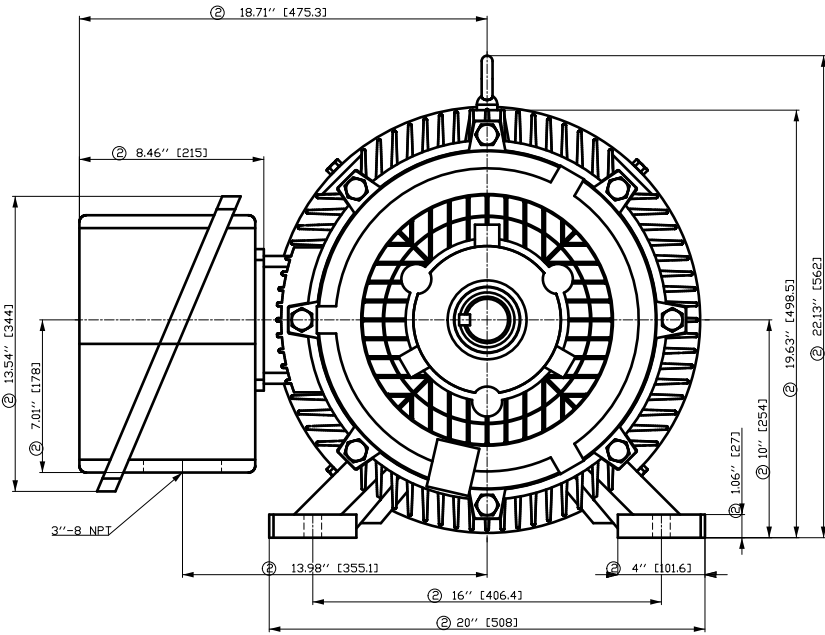
Notes:

I_r/I_N = locked rotor current / current nominal
M_r/M_N = locked rotor torque / torque nominal
M_b/M_N = break down torque / nominal torque

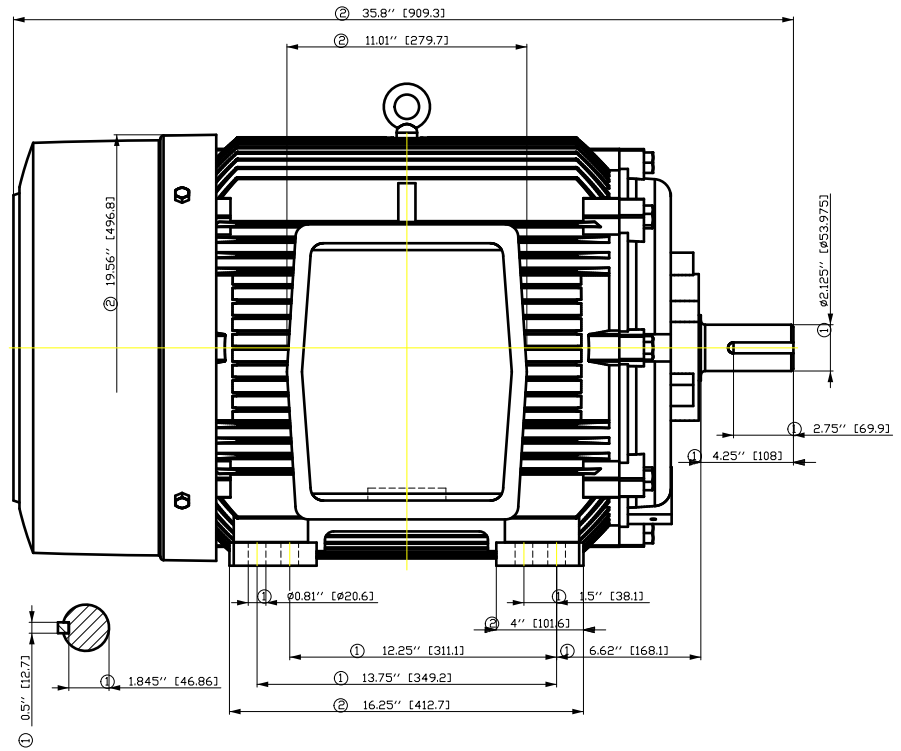
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>
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- 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.

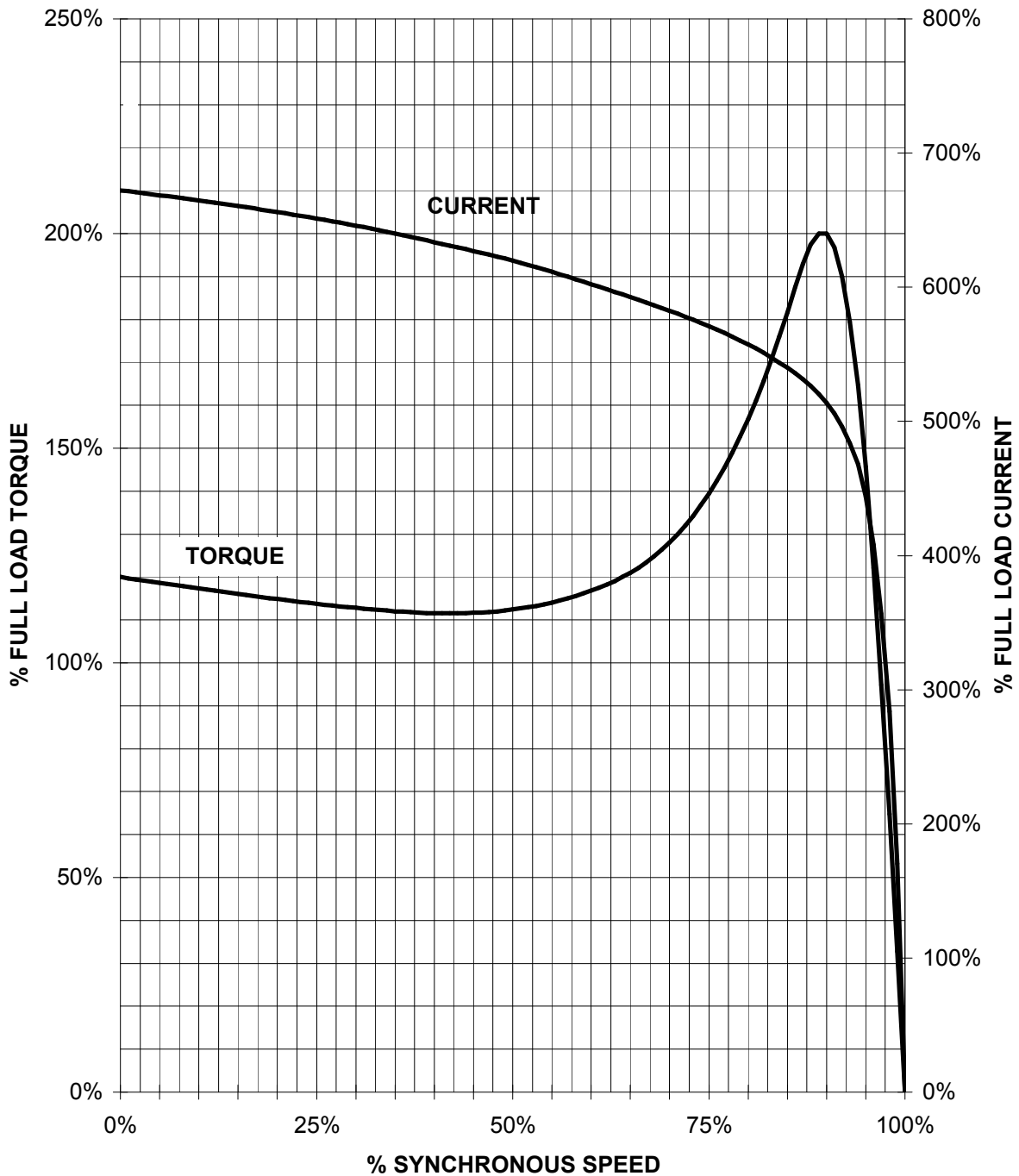


Tolerance	Surface	Material	Weight	Scale
F50G-HF-E ÖVE-E300H E	Author Creator Approval Department Change Order	ÖS T a : ^ & @ } *	E	{ {
SIEMENS	Doc. State	I B B G	MLFB	Doc. Type
	Revision	Index RS	Item No Doc No	Paper Size CH 1st Language ^ 2nd Language a^
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				Sheet F of F

SIEMENS INDUSTRY, INC.

HP 100 VOLTS < 600V RPM 3600 TYPE SD100
HZ 60 PHASE 3 FRAME 405TS NEMA B

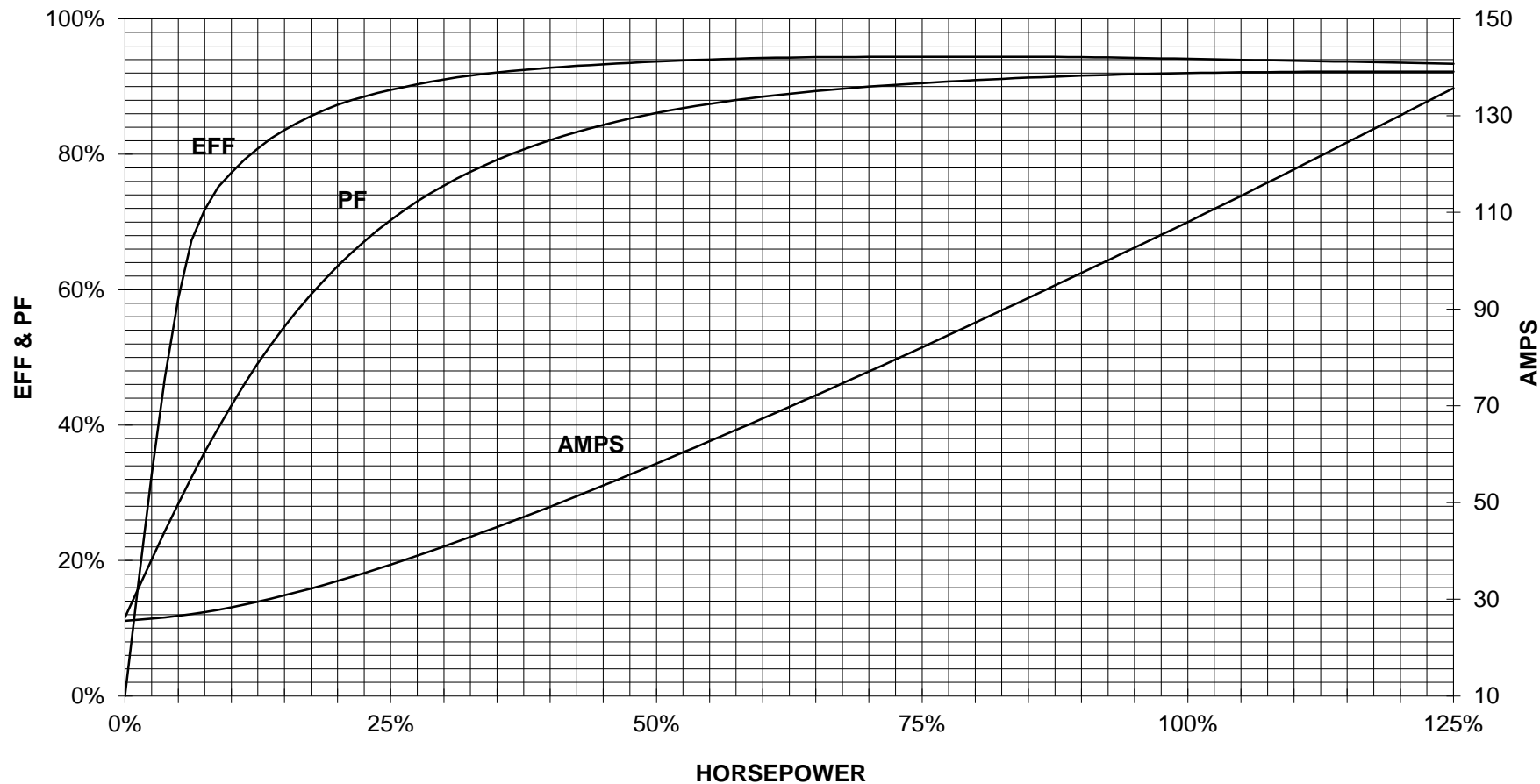
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

100 HP 3600 RPM 405TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100



CUSTOMER: _____ ORDER #: _____

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

REV. 1

Main terminal diagram



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

responsible dep.
DI MC LVM

technical reference

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Project

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document type
Wiring Diagram

title
1LE2321-4BA21-2AA3

document status
free

document number

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