

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

Motor type: SD100 IE3E **FS: 256T - 2p - 20 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

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				
575	Y	60	20.00	15.00	3,600	18.00	13.40	9.40	4.20	116.0	91.0	91.6	92.1	91.5	91.3	86.2	30.0	183	230	
Frame Type: 256T		Type of constr.: (G) Round body - C-Face				Ins. Cl.: Standard Class F Insulation		Motor Prot.: (A) Without Protection			NEMA Des.: B		S.F.: 1.15							
Mtr. WT: 343						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	67.0 dB(A) / 79.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz									
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Hot	20 s
SPL@3	54.0	56.0	63.0	62.0	60.0	48.0	dB(A)	Safe Stall Time Cold	45 s
Moment of inertia	1.4 Lb-ft ²							Frame material	cast iron
Ext Load Inertia Capability:	21.0 Lb ft ²							Color, paint shade	Standard Paint - RAL7030
Bearings								Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearing DE NDE	6309 Z C3 S0			6309 Z C3 S0			Ventilation Type		
Bearing_Type	Ball Bearing			Ball Bearing			Method of cooling	TEFC	
AFBMA:	45BC03JP30			45BC03JP30			Direction of rotation	Bidirectional	
Grease								Fan Material	Polypropylen ESD
Capacity	0.5 oz			0.5 oz			VFD	CT: 4:1 VT: 20:1	
Grease Type:	Exxon Mobile EM							Space heaters	without
								Brake:	without


Terminal box

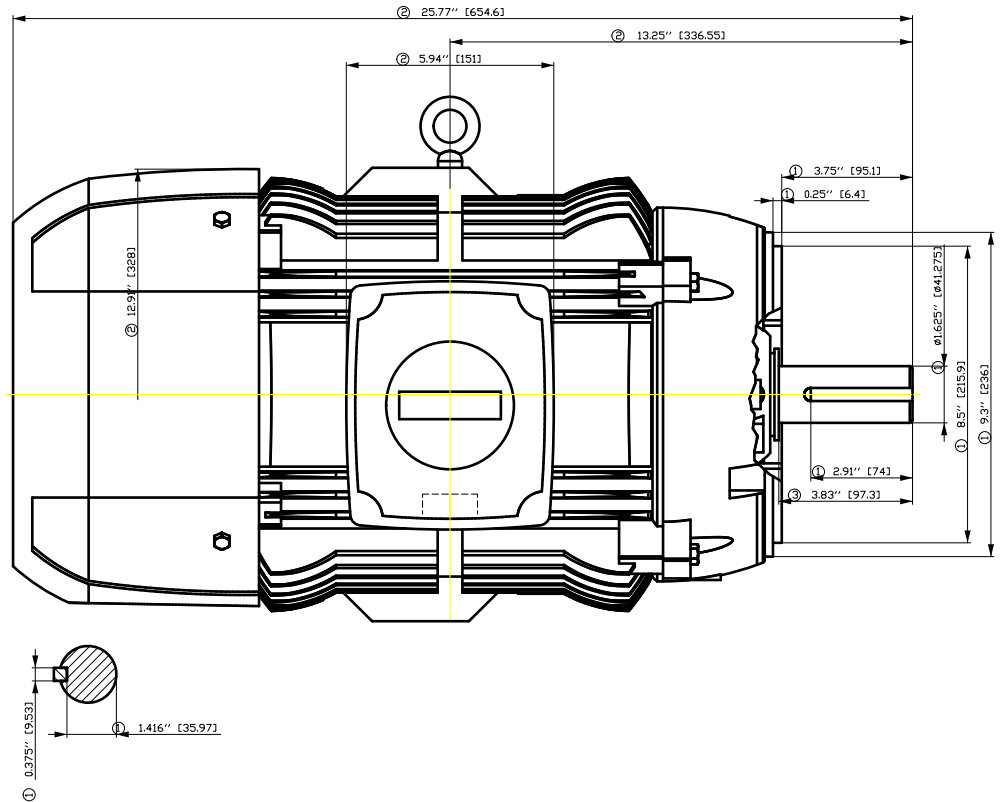
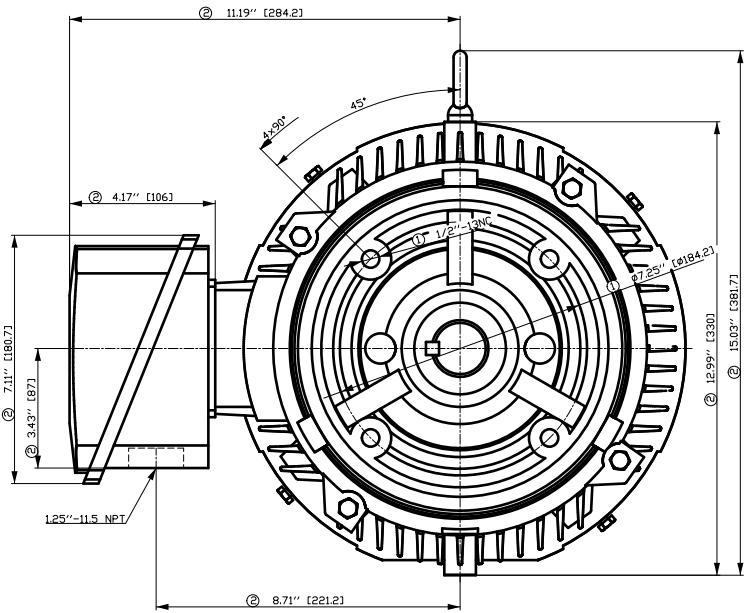
Lead Wire Connection					3 LEAD - WYE					Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS				
Voltage	L1	L1	L1	Connected together						Material of terminal box	Cast Iron				
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----	T1	T2	T3	----											

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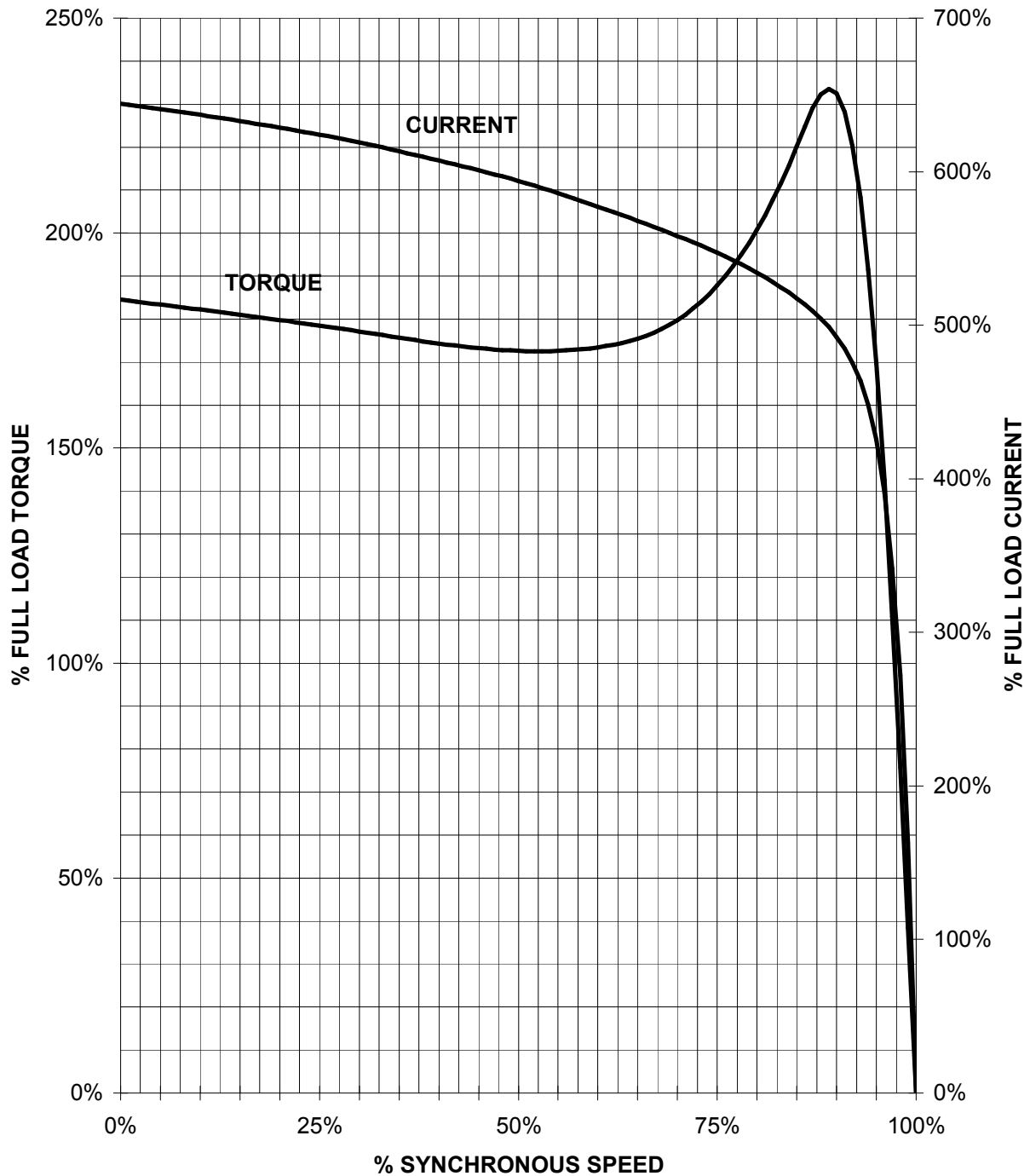
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

Tolerance	Surface	Material	Weight	Scale
F50G GF E00CF E00EH E	Author Creator Approval Department Change Order	ÖVS T æ : ^ æ @ } *	E	{ {
SIEMENS	Doc. State	Item No	Doc Type	
	Revision	Index	RS	Paper Size
© Siemens AG	Project No	Ref No	E	E
2018	E	E	E	F of F

SIEMENS INDUSTRY, INC.

HP 20 VOLTS < 600V RPM 3600 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME 256T NEMA B

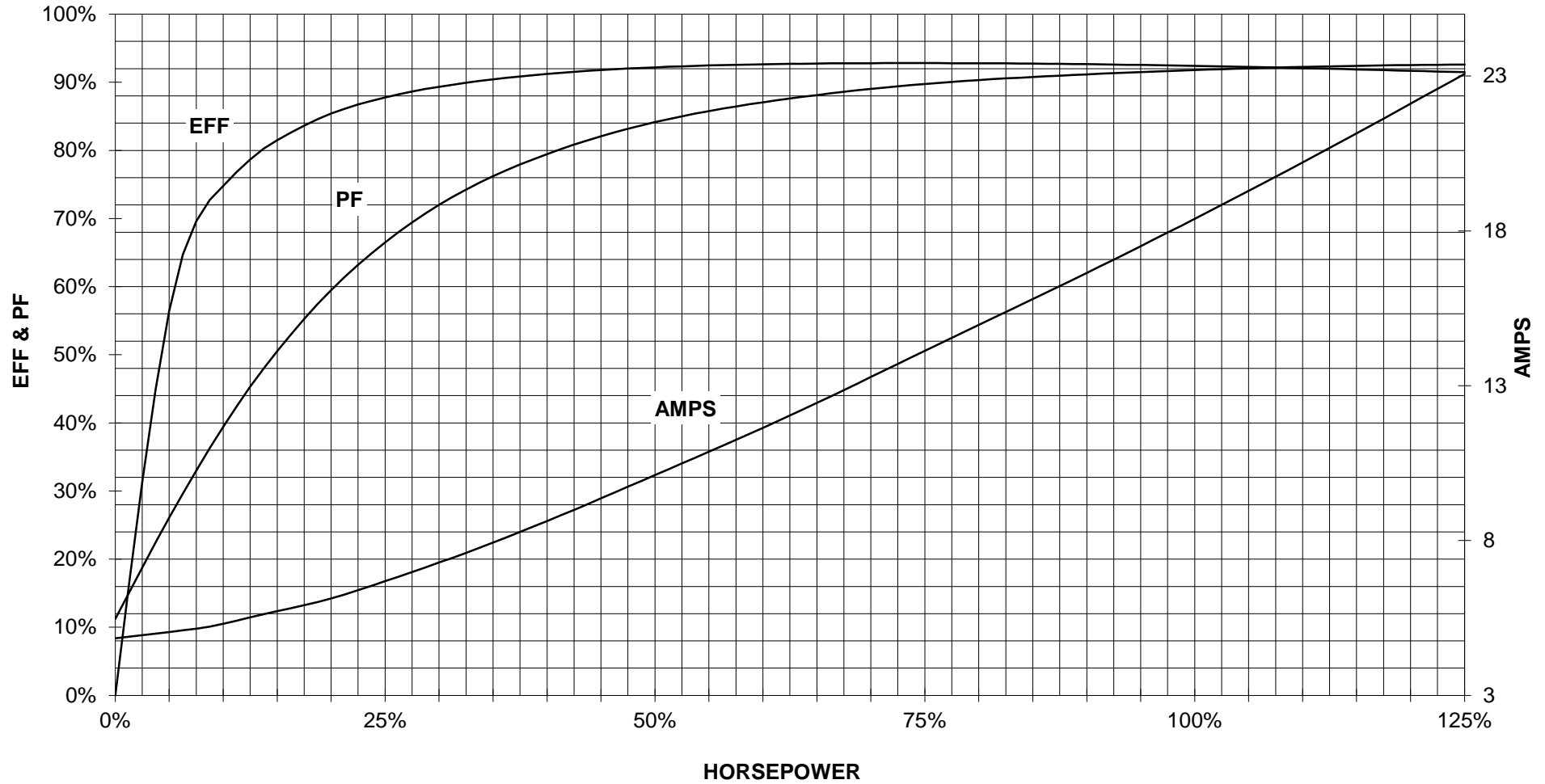
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

20 HP 3600 RPM 256T FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100 IEEE841



CUSTOMER _____ ORDER # _____ PO # _____

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

REV. 1

Main terminal diagram



3 LEAD WYE			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	

responsible dep.
DI MC LVM

technical reference

created by

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Project

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document type
Wiring Diagram

title
1LE2421-2BA21-3GA3

document status
free

document number

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