

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

Motor type: **SD100 IEEE** FS: **364T - 6p - 40 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	Δ	60	40.00	30.00	1,200	39.20	30.20	22.70	14.40	232.0	94.1	94.1	94.4	81.0	79.0	70.0	177.0	190	220	
Frame Type: 364T		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: 1,000						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	60.0 dB(A) / 71.0 dB(A)	Thickener	Polyurea
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	29 s
250	500	1000	2000
4000	8000	Hz	
SPL@3	48.0	53.0	54.0
	53.0	52.0	50.0
Moment of inertia	14.8 Lb-ft ²	Safe Stall Time Cold	55 s
Ext Load Inertia Capability:	503.0 Lb ft ²	Frame material	cast iron
Bearings		Color, paint shade	Standard Paint - RAL7030
Bearing DE NDE	6314 Z C3 S0	6314 Z C3 S0	
Bearing_Type	Ball Bearing	Ball Bearing	
AFBMA:	70BC03JP30	70BC03JP30	
Grease		Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Capacity	7.5 oz	7.5 oz	
Grease Type:	Exxon Mobile EM		
		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

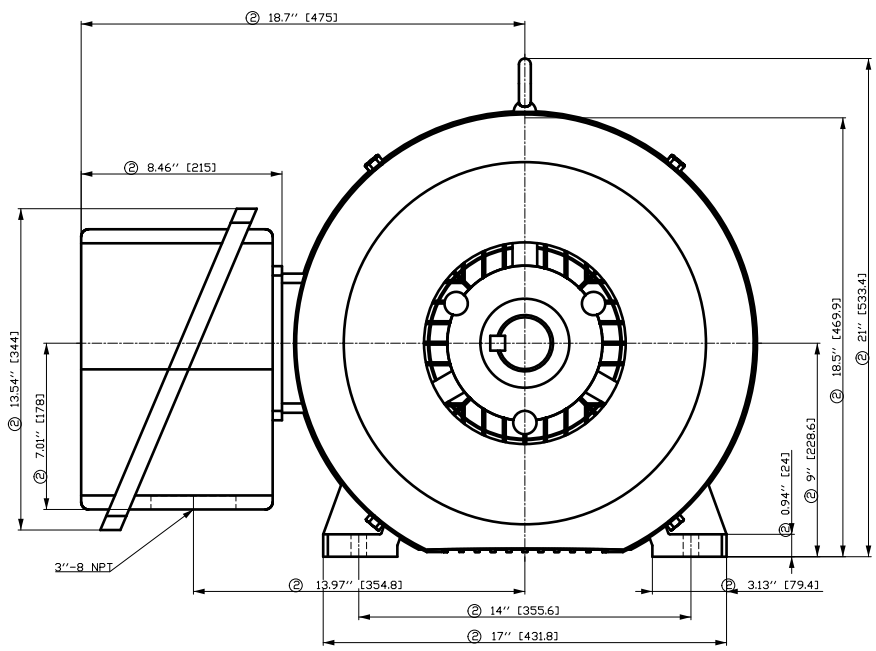
Lead Wire Connection	3 LEAD - DELTA				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Cast Iron
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----	T1	T2	T3	----		

Notes:

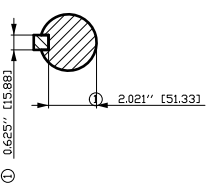
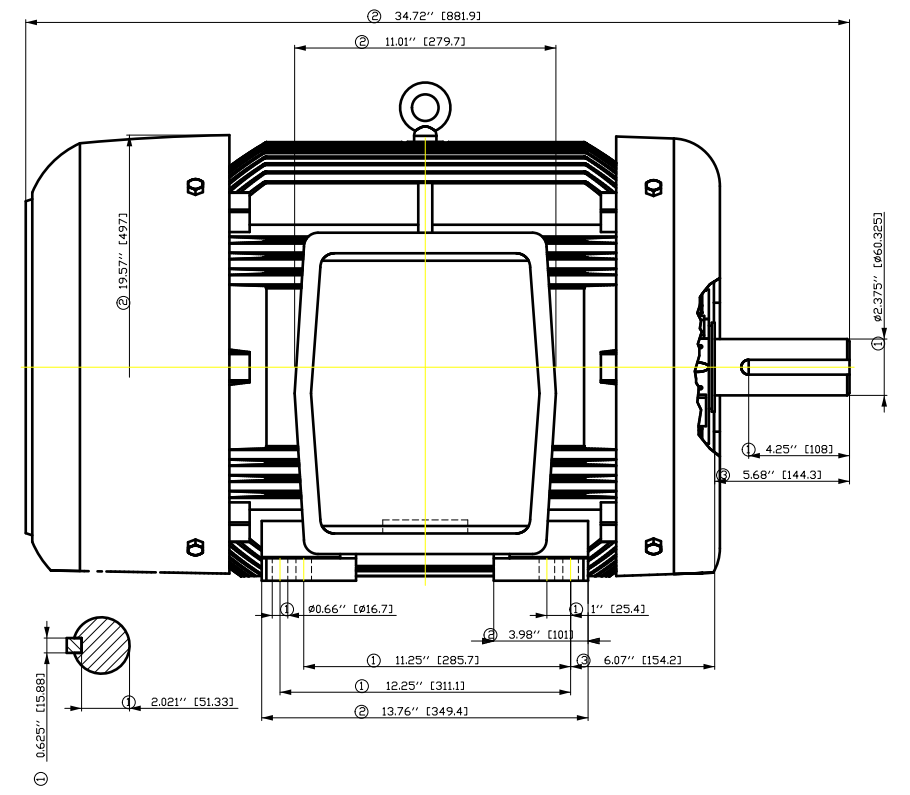
I_L/I_N = locked rotor current / current nominal
M_L/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque

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>			
	document type datasheet	document status released		customer			
	title 1LE2421-3CC11-3AA3	document number					
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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.



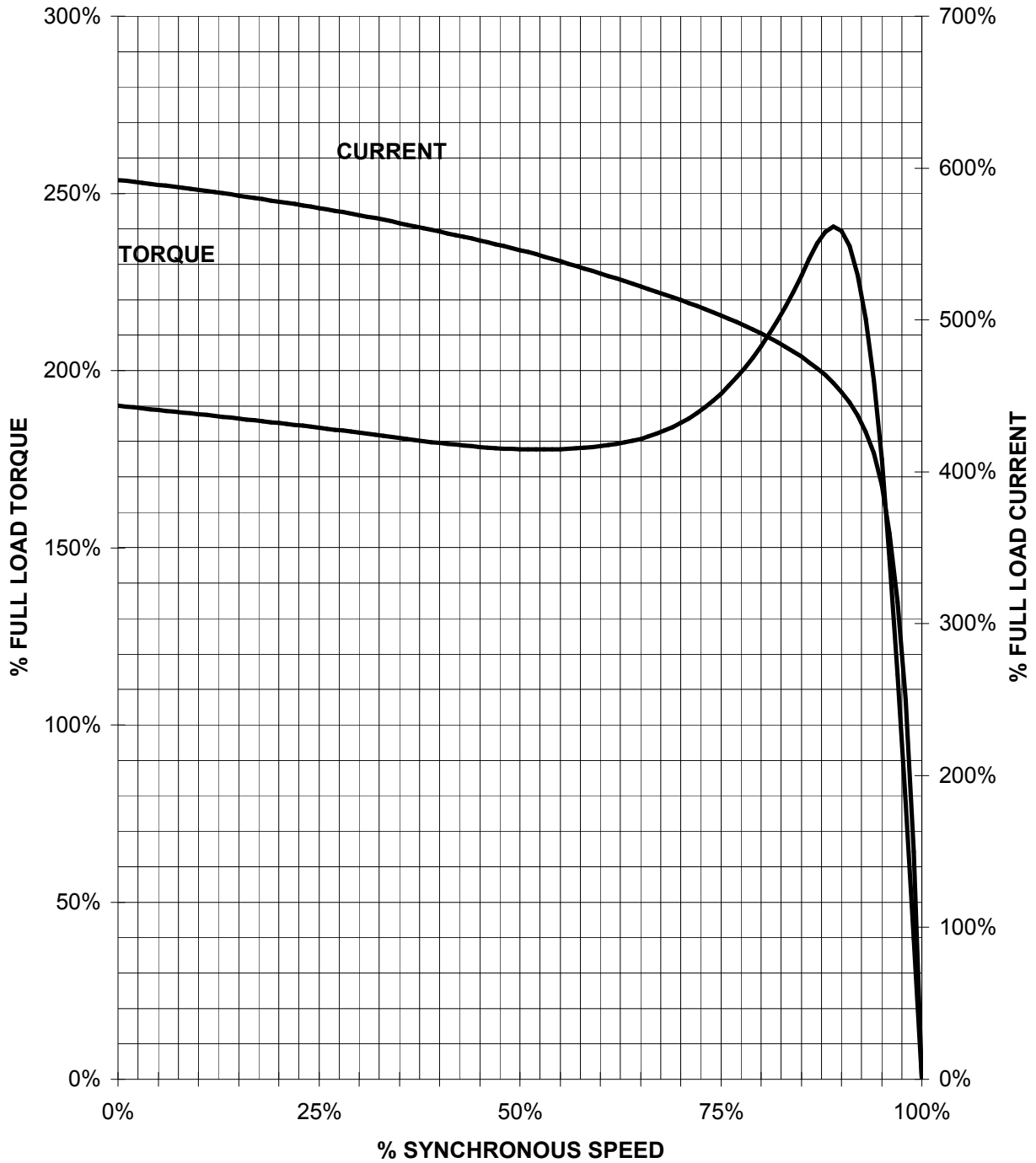
Tolerance	Surface	Material	Weight	Scale
F50G GF-H00FFH-00H E	Author Creator Approval Department Change Order	ÖVS T æ : ^ & @ } *	E	{ {
SIEMENS	Doc. State	Item No	Doc Type	
	Revision	Index	Paper Size	
	Project No	RS	1st Language	
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			Sheet F of F	

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 传
 真
 010-62132069
 邮
 箱
 010-62132068@163.com
 网
 址
 http://www.siemens.com.cn

SIEMENS INDUSTRY, INC.

HP 40 VOLTS < 600V RPM 1200 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME 364T NEMA B

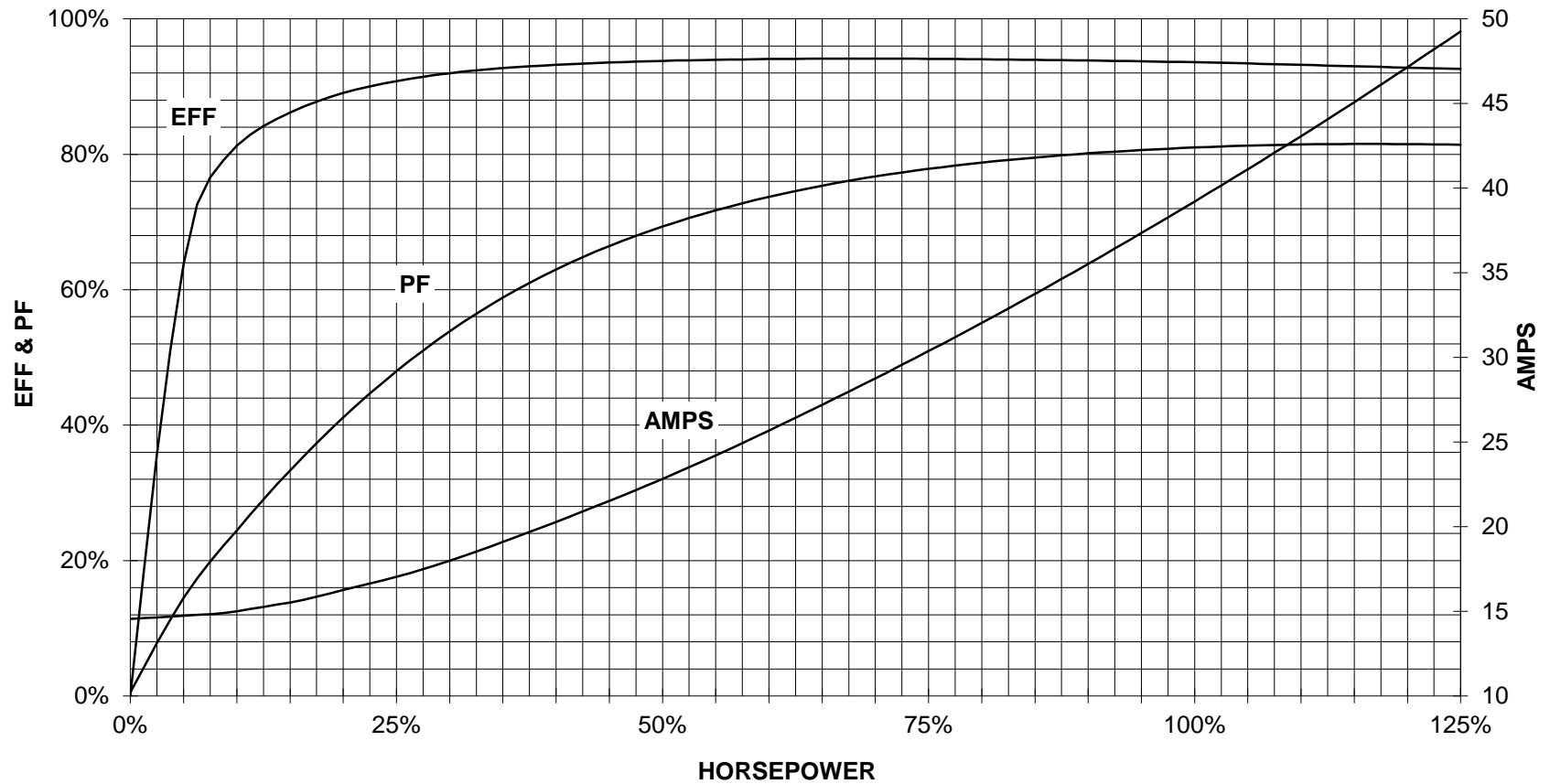
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

40 HP 1200 RPM 365T 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 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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