

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

Motor type: SD100 **FS: 182T - 4p - 3 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	3.00	2.00	1,800	3.20	2.60	2.20	1.70	26.4	89.5	89.4	87.8	78.5	71.7	59.5	9.0	233	356	
Frame Type: 182T		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: 132						Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: K		IP 55							

Mechanical data

Sound level (SPL / SWL) at 60 Hz	57.0 dB(A) / 67.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	17 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	29 s
SPL@3	42.0	46.0	54.0	49.0	43.0	32.0	dB(A)	Frame material	cast iron
Moment of inertia	0.3 Lb-ft ²							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	17.0 Lb ft ²							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearings								Ventilation Type	
Bearing DE NDE	6206 Z C3 S0			6206 Z C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bidirectional	
AFBMA:	30BC02JP30			30BC02JP30			Fan Material	Polypropylen ESD	
Grease								VFD	CT: 20:1 VT: 20:1
Capacity	0.2 oz			0.2 oz			Space heaters	without	
Grease Type:	Exxon Mobile EM							Brake:	without


Terminal box

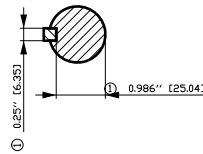
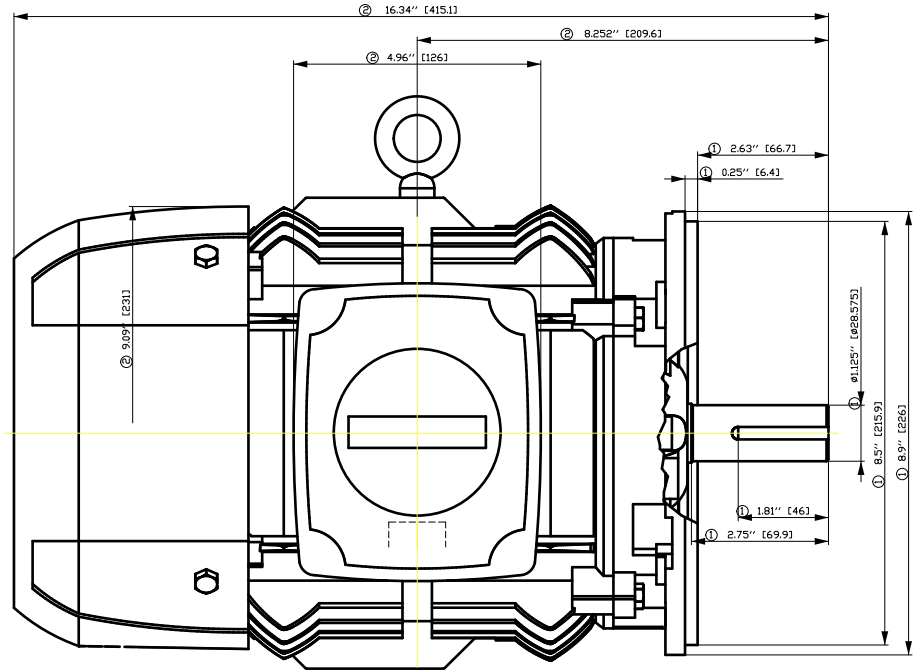
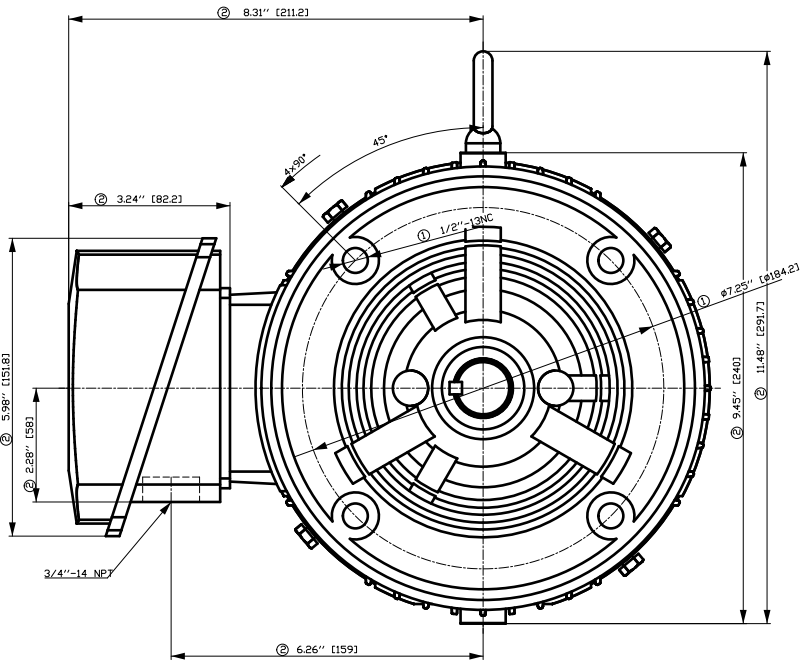
Lead Wire Connection				3 LEAD - WYE		Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS		
Voltage	L1	L1	L1	Connected together		Material of terminal box	Cast Iron		
----	----	----	----	----		Cable entry	.75" NPT		
----	T1	T2	T3	----					

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 1LE2321-1CB11-3GA3	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
F50GHGF00FFH0EH	Author	ÖV	11.25" [285.75]	1:1
E	Creator	Tæ: ^æ@`)*	8.9" [226.1]	
	Approval			
	Department			
	Change Order	MLFB		
	Doc State	I ð BGG		Paper Size CH
	Revision	Index RS		1st Language ^}
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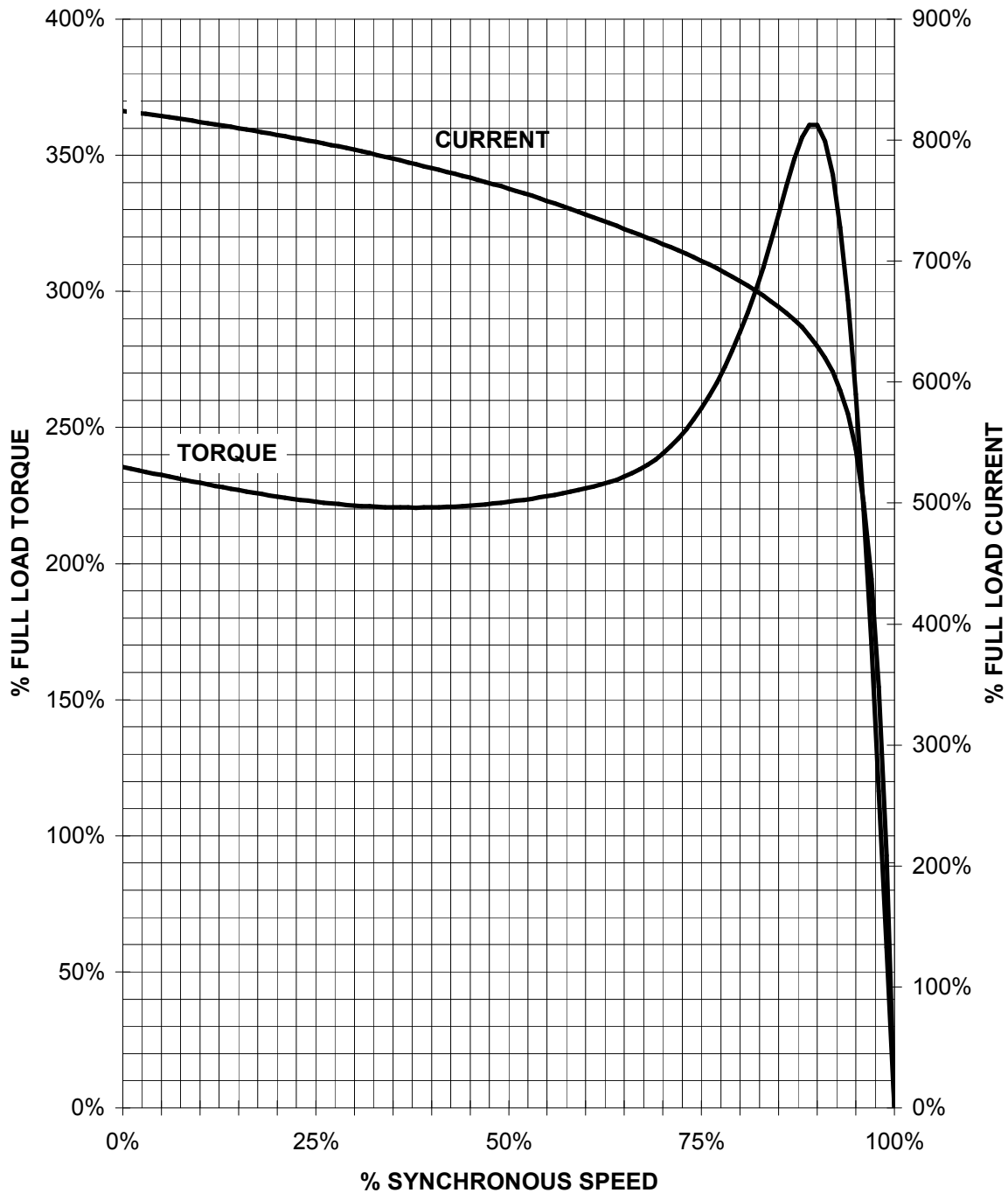
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SIEMENS INDUSTRY, INC.

HP 3 VOLTS < 600V RPM 1800 TYPE SD100
HZ 60 PHASE 3 FRAME 182T NEMA B

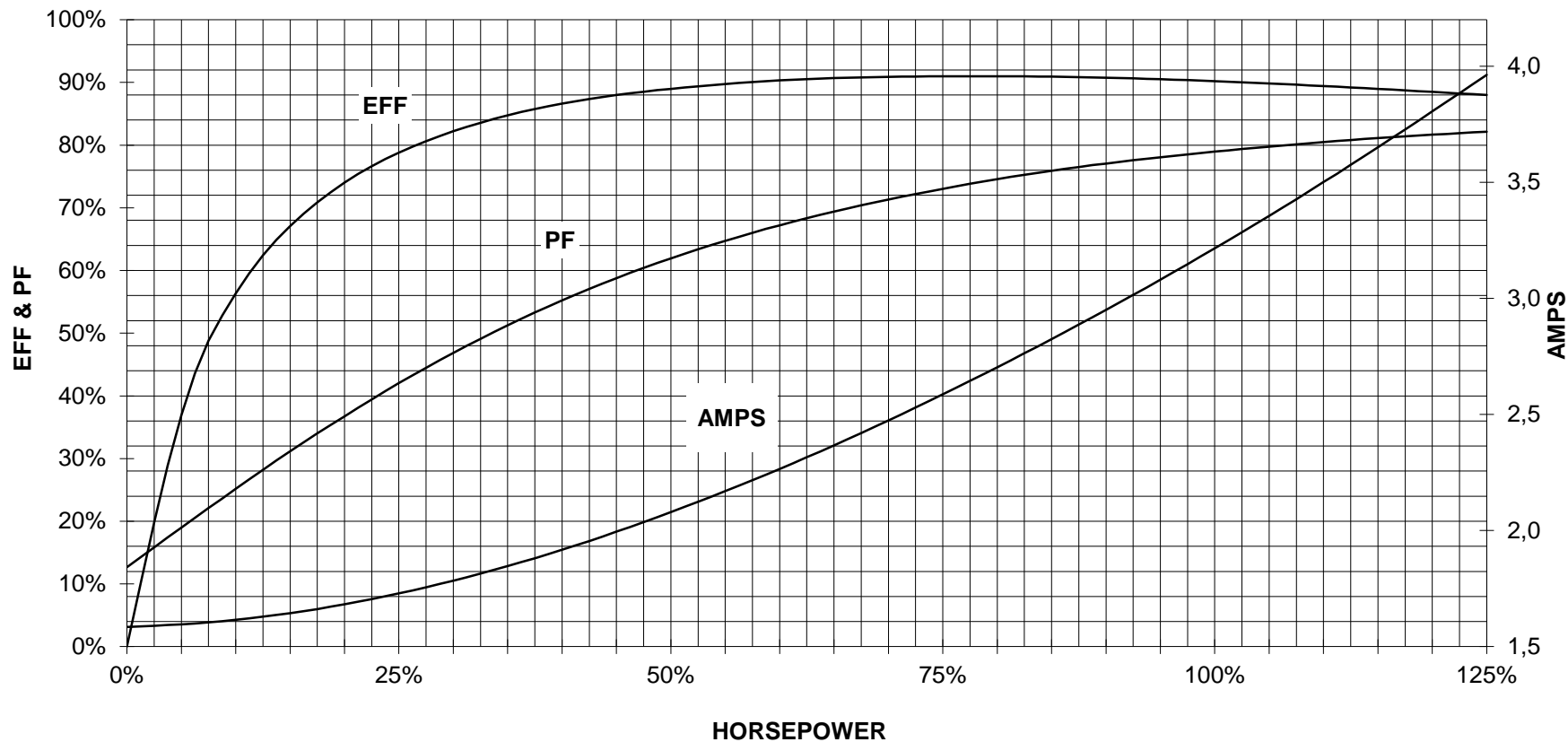
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

3 HP 1800 RPM 182T FRAME 575 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.

REV. 1

Main terminal diagram



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

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