

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

Motor type: **SD100** FS: 213T - 2p - 7.5 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				
460	Y	60	7.50	5.50	3,600	8.80	6.70	5.00	3.00	63.0	89.5	90.1	89.6	89.2	86.8	78.5	11.0	182	500	
230	YY	60	7.50	5.50	3,600	17.60	13.47	9.98	6.00	126.0	89.5	90.1	89.6	89.2	86.8	78.5	11.0	182	500	
400	Y	50	5.00		2,948	6.80	5.48	4.33	3.10	64.0	87.9	88.1	87.4	88.1	83.1	72.6	8.9	269	406	
200	YY	50	5.00		2,948	13.60	10.96	8.66	6.20	128.0	87.9	88.1	87.4	88.1	83.1	72.6	8.9	269	406	

Frame Type: 213T	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: 161		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: H	IP 55

Mechanical data

Sound level (SPL / SWL) at 60 Hz	66.0 dB(A) / 78.0 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	30 s
SPL@3	53.0	55.0	63.0	62.0	58.0	47.0	dB(A)	Frame material	cast iron
Moment of inertia	0.4 Lb-ft ²		Color, paint shade	Standard Paint - RAL7030					
Ext Load Inertia Capability:	83.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings			Ventilation Type						
Bearing DE NDE	6208 Z C3 S0		6208 Z C3 S0	Method of cooling	TEFC				
Bearing_Type	Ball Bearing		Ball Bearing	Direction of rotation	Bidirectional				
AFBMA:	40BC02JP30		40BC02JP30	Fan Material	Polypropylen ESD				
Grease			VFD	CT: 4:1 VT: 20:1					
Capacity	0.3 oz		0.3 oz	Space heaters	without				
Grease Type:	Exxon Mobile EM		Brake:	without					


Terminal box

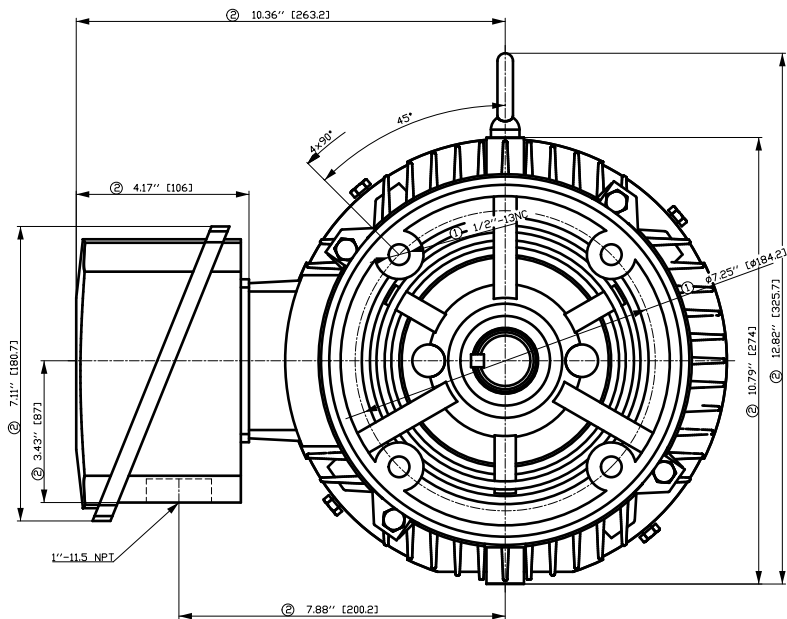
Lead Wire Connection	9 LEAD - WYE				Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1	L1	L1	Connected together	Material of terminal box	Cast Iron
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	Cable entry	1" NPT
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		

Notes:

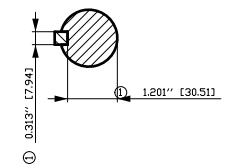
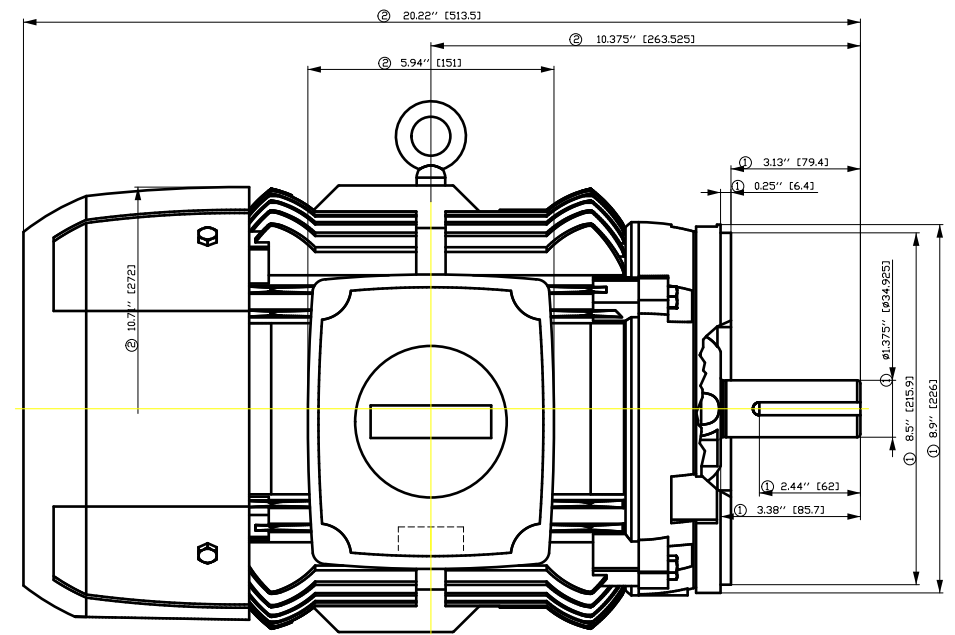
I_L/I_N = locked rotor current / current nominal
M_L/M_N = locked rotor torque / torque nominal
M_d/M_N = break down torque / nominal torque

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

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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.



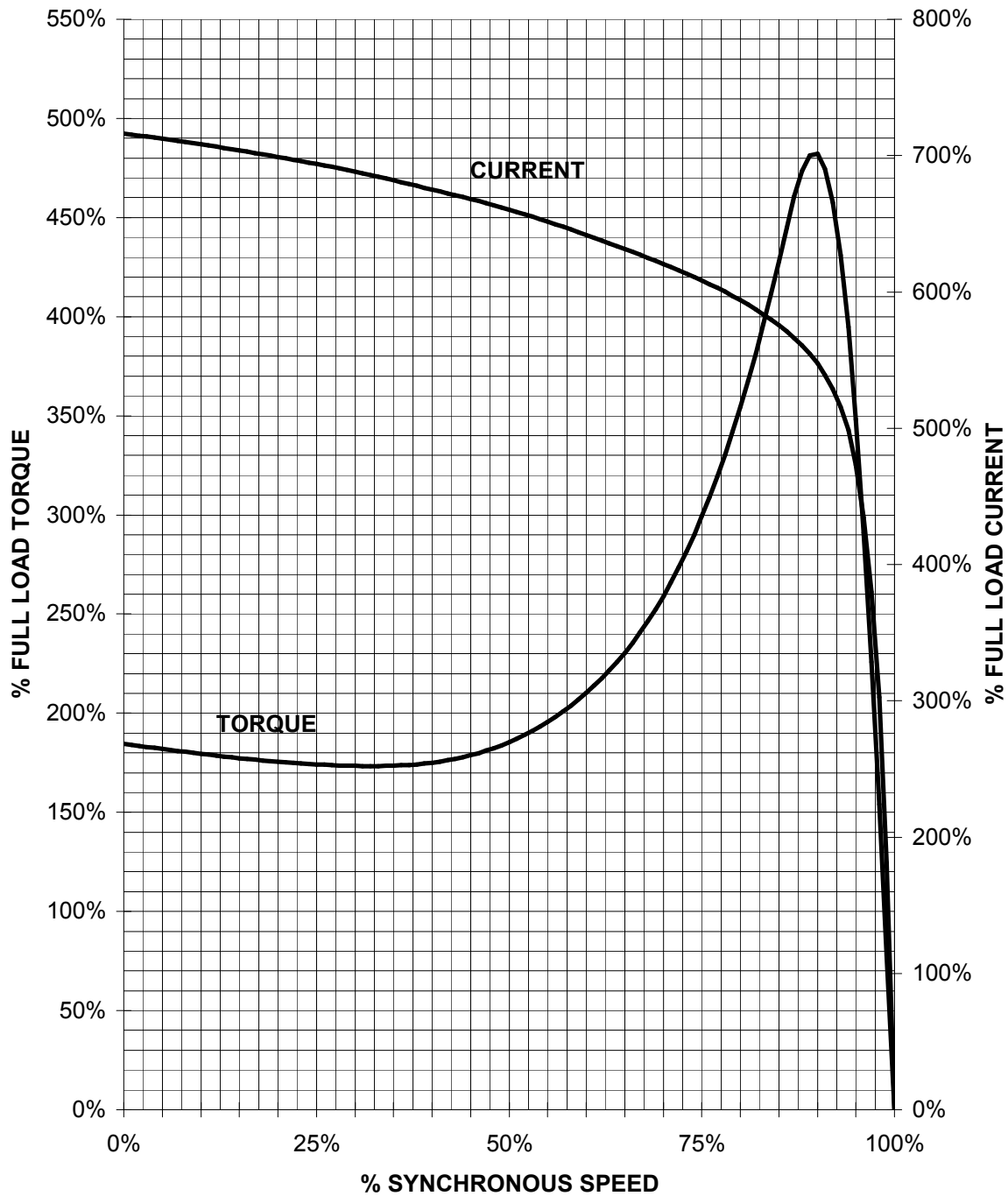
Tolerance	Surface	Material	Weight	Scale
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SIEMENS INDUSTRY, INC.

HP 7,5 VOLTS < 600V RPM 3600 TYPE SD100
HZ 60 PHASE 3 FRAME 213T NEMA B

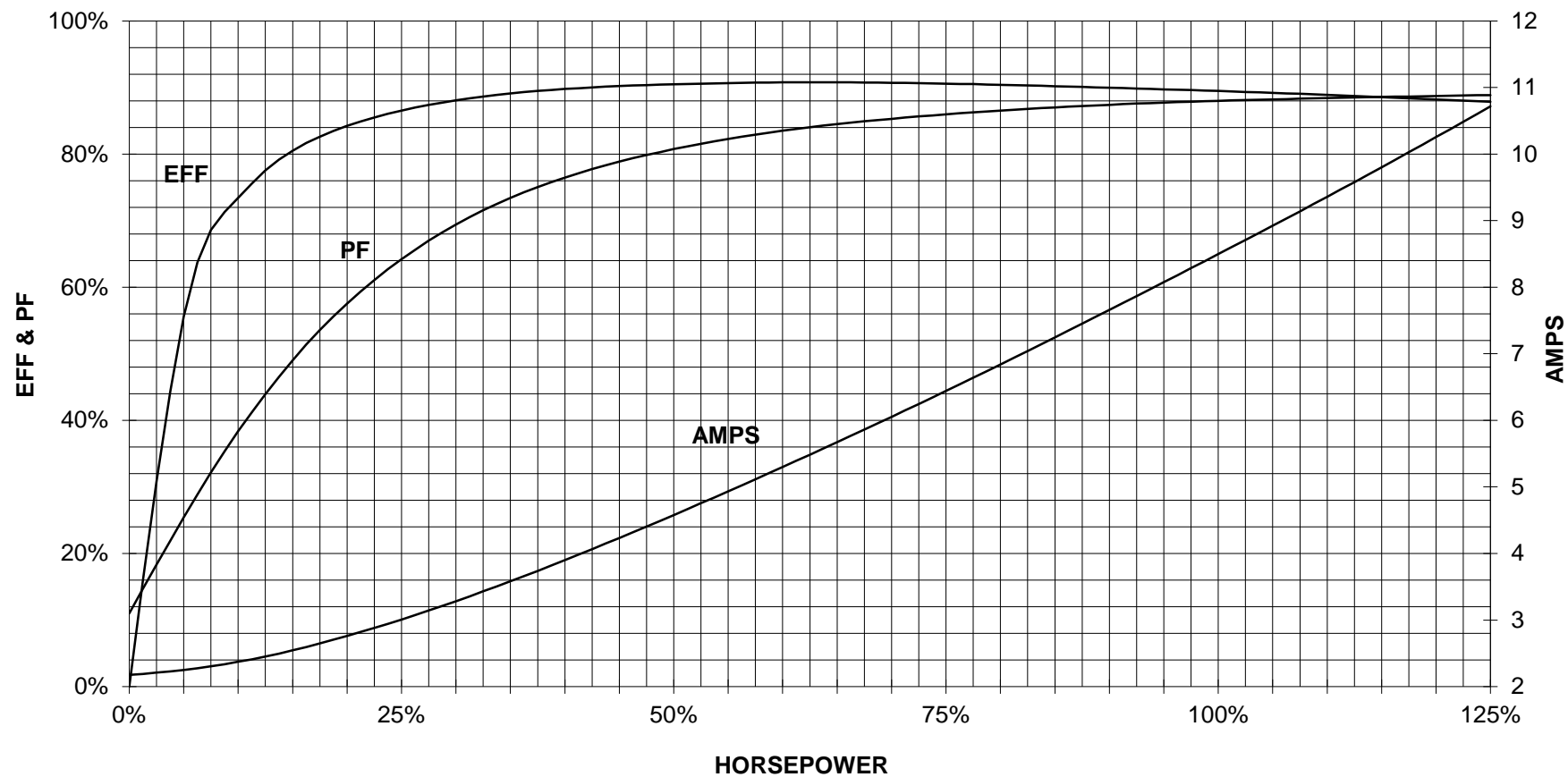
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

7.5 HP 3600 RPM 213T 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.

REV. 1

Main terminal diagram



| 9 LEAD WYE | | | | | | |
|------------|----------|----------|----------|--------------------|-------|--|
| Volts | LINES | | | CONNECTED TOGETHER | CONN. | |
| | L1 | L2 | L3 | | | |
| LOW | T1
T7 | T2
T6 | T3
T9 | T4 T5 T6 | YY | |
| HIGH | T1 | T2 | T3 | T4 T7-T5 T8-T6 T9 | Y | |

| | | | | |
|-------------------------------|---------------------------------|-----------------------------|----------------|-------------|
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