

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

Motor type: **GP100** FS: 405T - 6p - 75 hp -

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

Remarks

Electrical data

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	75.00	55.00	1,200	93.00	72.10	54.50	34.00	543.0	94.5	94.9	94.7	80.0	77.0	68.0	332.0	180	220	
230	$\Delta\Delta$	60	75.00	55.00	1,200	186.00	144.15	109.05	68.00	1086.0	94.5	94.9	94.7	80.0	77.0	68.0	332.0	180	220	
400	Δ	50	60.00		988	87.40	70.93	56.95	42.40	590.0	93.7	93.8	93.1	77.9	71.9	60.2	432.4	293	293	
200	$\Delta\Delta$	50	60.00		988	174.80	141.86	113.90	84.80	1180.0	93.7	93.8	93.1	77.9	71.9	60.2	432.4	293	293	

Frame Type: 405T	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: 1,257		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: G	IP 54

Mechanical data

Sound level (SPL / SWL) at 60 Hz	66.0 dB(A) / 77.0 dB(A)		Thickener	Polyurea					
Octave Band Center Frequencies Hertz			Safe Stall Time Hot	33 s					
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	45 s
SPL@3	58.0	61.0	62.0	57.0	48.0	39.0	dB(A)	Frame material	cast iron
Moment of inertia	23.8 Lb-ft ²		Color, paint shade	Standard Paint - RAL7030					
Ext Load Inertia Capability:	904.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings			Ventilation Type						
Bearing DE NDE	6316 Z C3 S0 6214 ZZ C3 S0		Method of cooling	TEFC					
Bearing_Type	Ball Bearing Ball Bearing		Direction of rotation	Bidirectional					
AFBMA:	80BC03JP30 70BC02JPP30		Fan Material	Polypropylen ESD					
Grease			VFD	CT: 4:1 VT: 20:1					
Capacity	7.5 oz 6.7 oz		Space heaters	without					
Grease Type:	Exxon Mobile EM		Brake:	without					

Terminal box


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

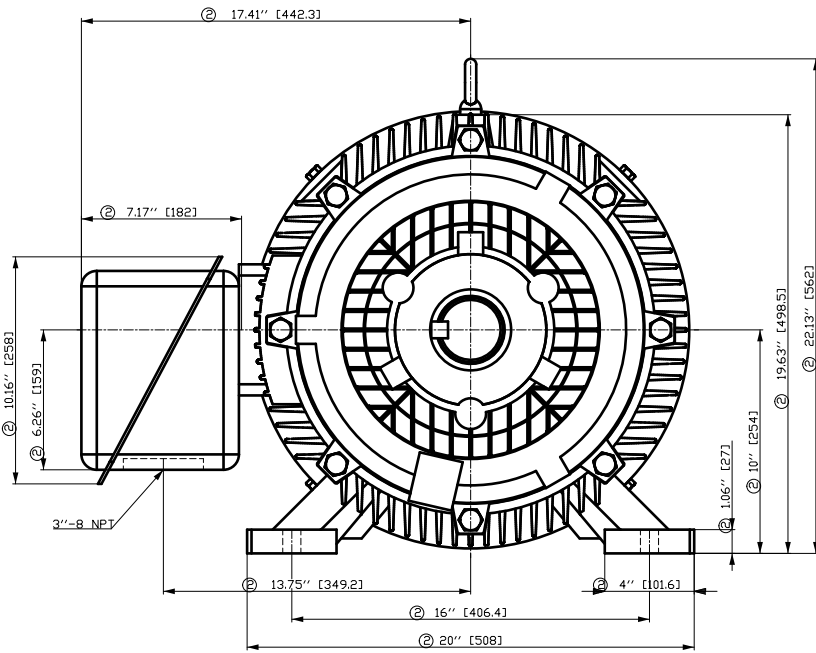
Notes:

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

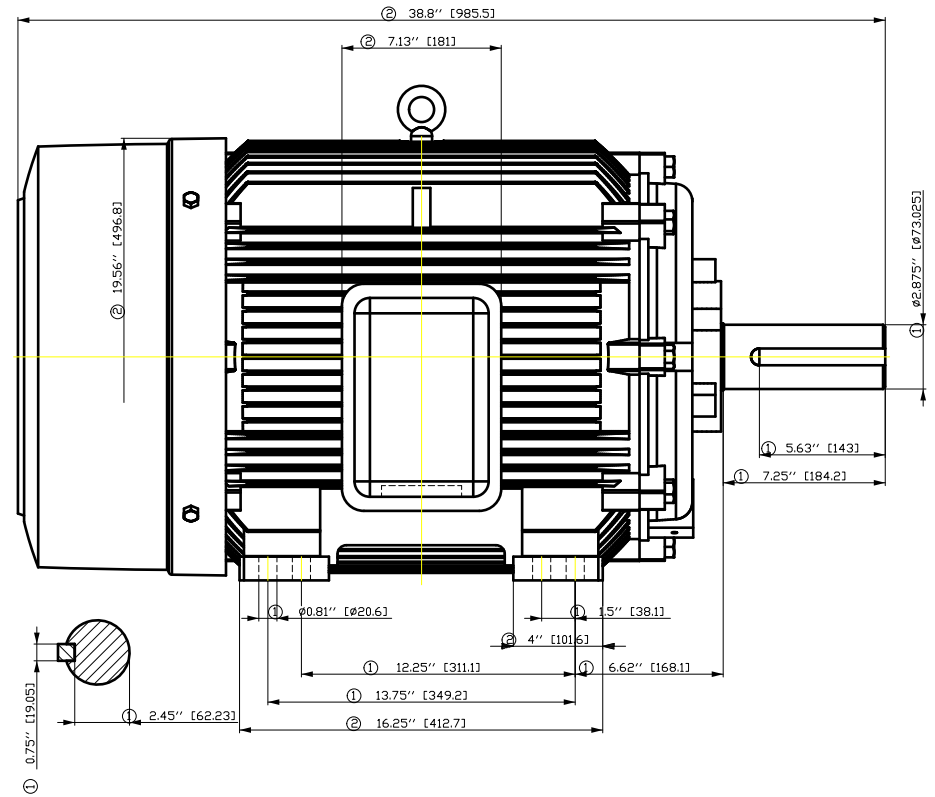
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

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 our website and our data sheets.</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.

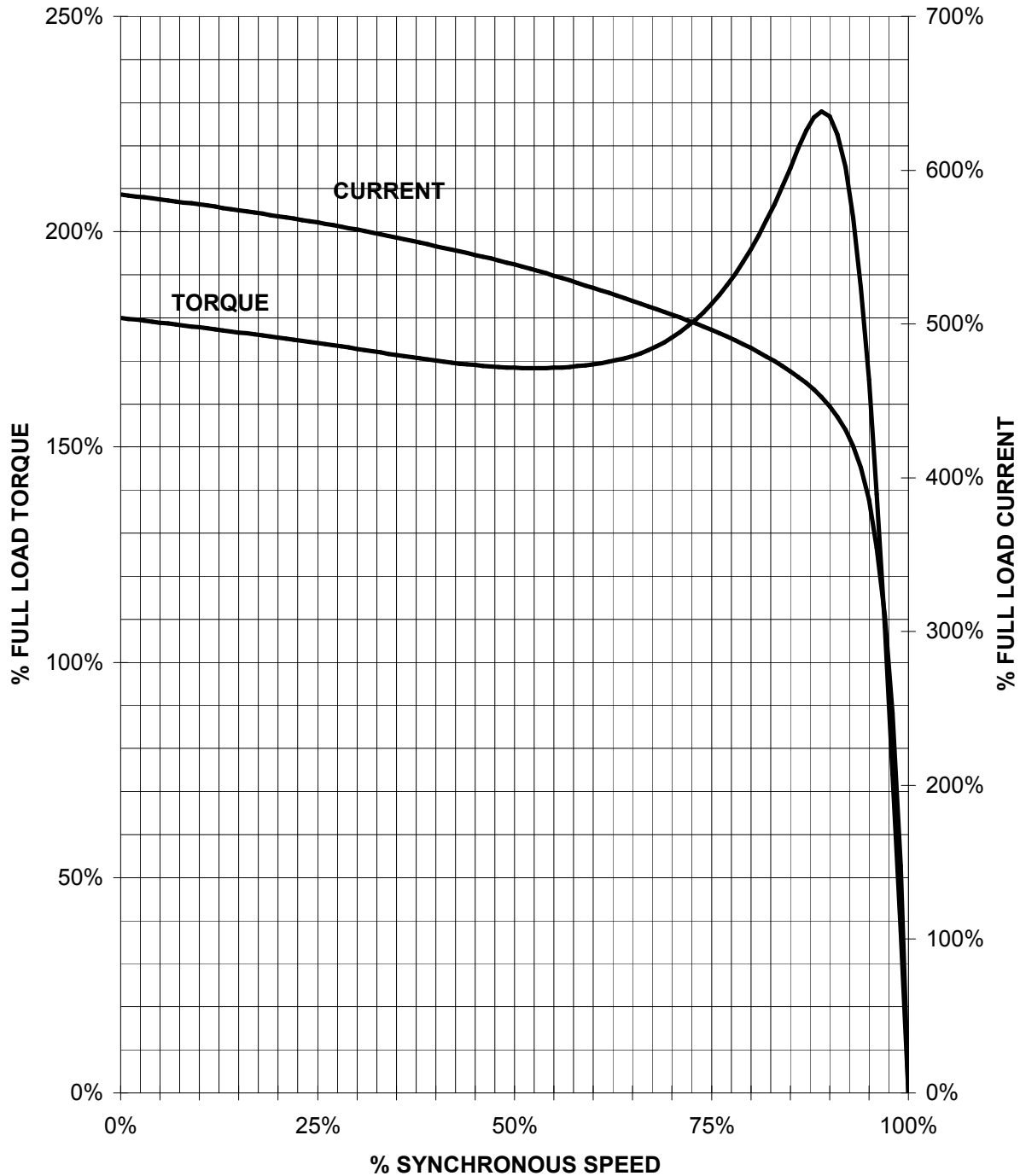


Tolerance	Surface	Material	Weight	Scale
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SIEMENS	Doc. State	Item No	Doc Type	
	Revision	Index	Paper Size	
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2018	E	E	Sheet F of F	

SIEMENS INDUSTRY, INC.

HP 75 VOLTS < 600V RPM 1200 TYPE GP100
HZ 60 PHASE 3 FRAME 405T NEMA B

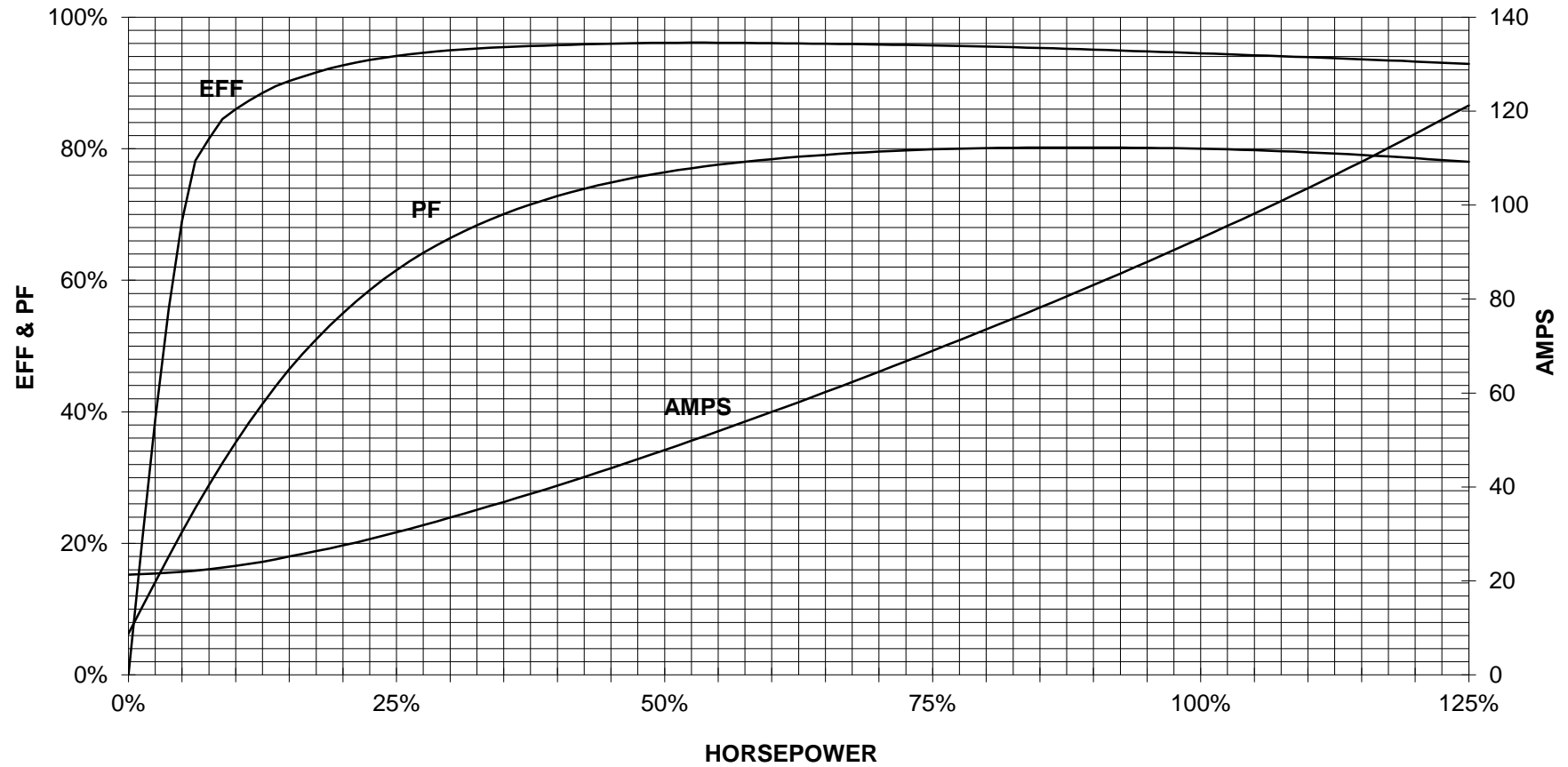
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

75 HP 1200 RPM 405T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100

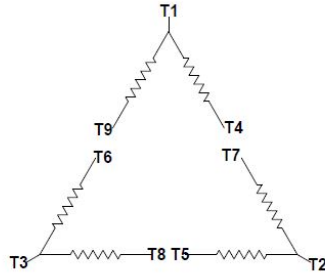


CUSTOMER _____ ORDER # _____ PO # _____

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

REV. 1

Main terminal diagram



9 LEAD DELTA						
Volts	LINES			CONNECTED TOGETHER	CONN.	
	L1	L2	L3			
LOW	T1 T6	T7 T4	T8 T5	T3 T9		Δ Δ
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9		Δ

responsible dep. DI MC LVM	technical reference	created by	approved by	Project
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