

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

Motor type: **GP100** FS: **324T - 4p - 40 hp -**

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

## Electrical data

U [V]	$\Delta / Y$	f [Hz]	P [HP]	P [kW]	n [rpm]	I Load [Amps]					LRC	Nom. Eff Load [%]			Pwr. Factor Load [%]			Torque [lb-ft]	T <sub>A</sub> /T <sub>N</sub> LRT [%]	T <sub>k</sub> /T <sub>N</sub> BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	2/4	4/4	3/4	2/4				
460	$\Delta$	60	40.00	30.00	1,800	46.00	36.00	26.50	15.00	290.0	94.1	94.1	94.3	86.0	83.0	75.0	118.0	180	231	
230	$\Delta \Delta$	60	40.00	30.00	1,800	92.00	71.93	52.96	30.00	580.0	94.1	94.1	94.3	86.0	83.0	75.0	118.0	180	231	
400	$\Delta$	50	30.00		1,487	39.90	31.70	24.50	16.60	337.5	93.0	93.3	92.9	85.1	80.1	69.4	106.0	187	324	
200	$\Delta \Delta$	50	30.00		1,487	79.80	63.40	49.00	33.20	675.0	93.0	93.3	92.9	85.1	80.1	69.4	106.0	187	324	

Frame Type: 324T	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: 636		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	64.0 dB(A) / 75.0 dB(A)	Thickener	Polyurea						
Octave Band Center Frequencies Hertz		Safe Stall Time Hot	22 s						
250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	45 s	
SPL@3	52.0	59.0	59.0	57.0	53.0	50.0	dB(A)	Frame material	cast iron
Moment of inertia	9.3 Lb-ft <sup>2</sup>		Color, paint shade	Standard Paint - RAL7030					
Ext Load Inertia Capability:	189.0 Lb ft <sup>2</sup>		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
<b>Bearings</b>			<b>Ventilation Type</b>						
Bearing DE   NDE	6312 Z C3 S0	6210 ZZ C3 S0	Method of cooling	TEFC					
Bearing_Type	Ball Bearing	Ball Bearing	Direction of rotation	Bidirectional					
AFBMA:	60BC03JP30	50BC02JPP30	Fan Material	Polypropylen ESD					
<b>Grease</b>			VFD	CT: 4:1 VT: 20:1					
Capacity	5.5 oz	2.3 oz	Space heaters	without					
Grease Type:	Exxon Mobile EM		Brake:	without					


## Terminal box

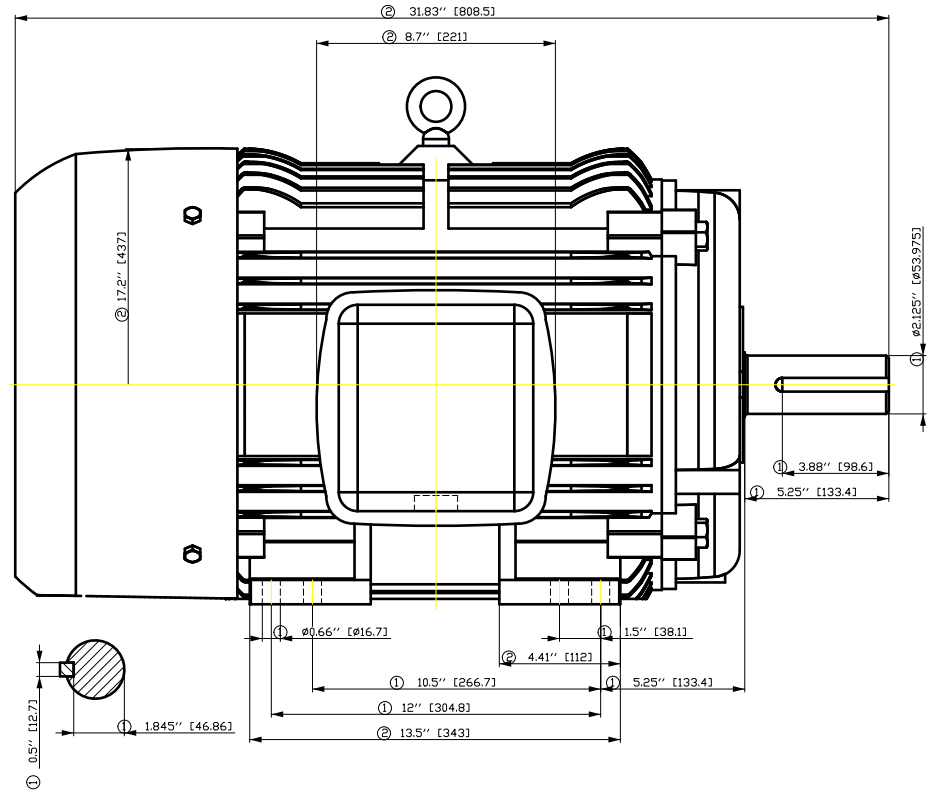
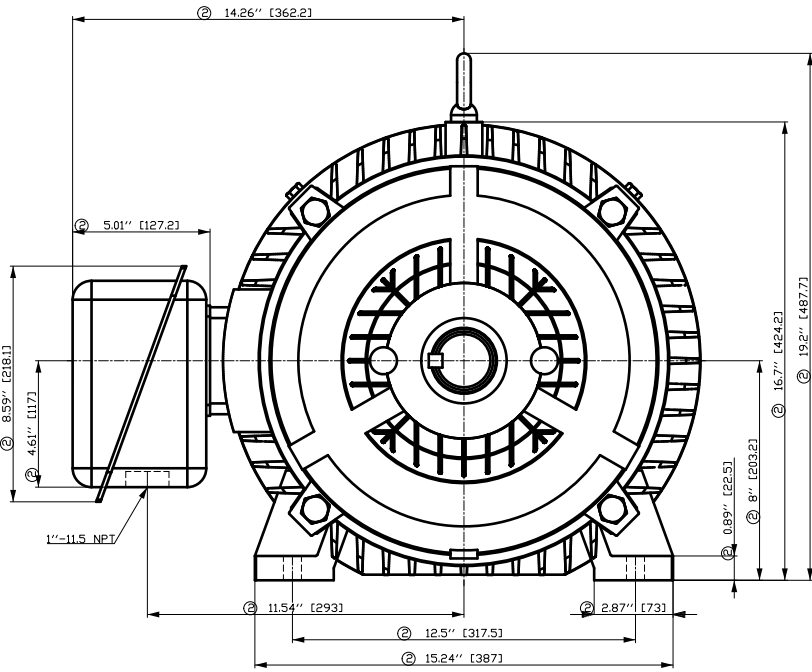
Lead Wire Connection	9 LEAD - DELTA	Terminal box position	(3) F-1, Standard Floor Mount, T. Box LHS
Voltage	L1 L1 L1 Connected together	Material of terminal box	Stamped Steel
LOW	T1 T7 T6 T2 T8 T4 T3 T9 T5 ---	Cable entry	2" NPT
HIGH	T1 T2 T3 T4 T7-T5 T8-T6 T9		

## Notes:

I<sub>L</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>L</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>d</sub>/M<sub>N</sub> = 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>	
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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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	Revision	Index RS	Paper Size	CH
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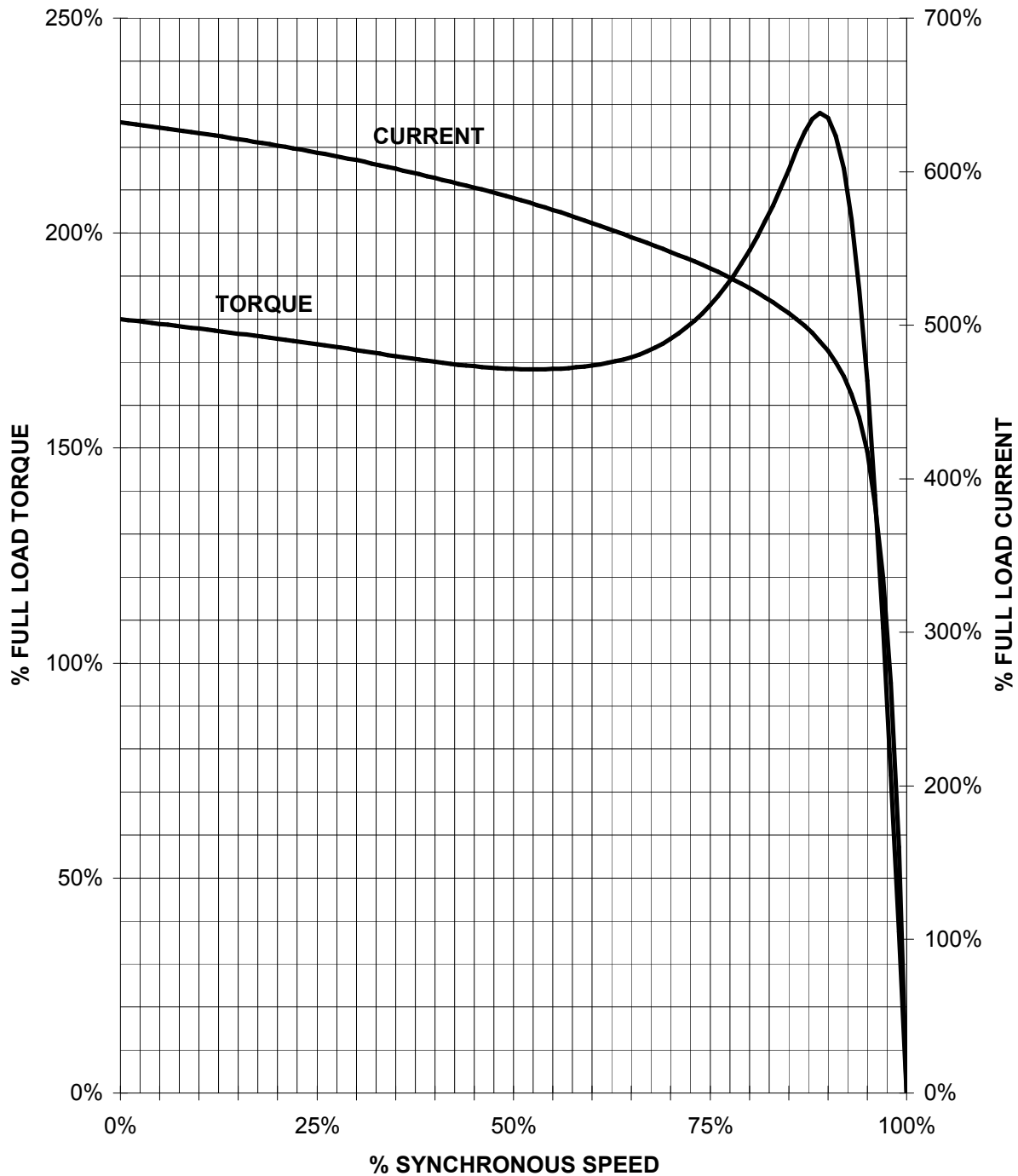
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# SIEMENS INDUSTRY, INC.

HP 40    VOLTS < 600V    RPM 1800    TYPE GP100  
HZ 60    PHASE 3    FRAME 324T    NEMA B

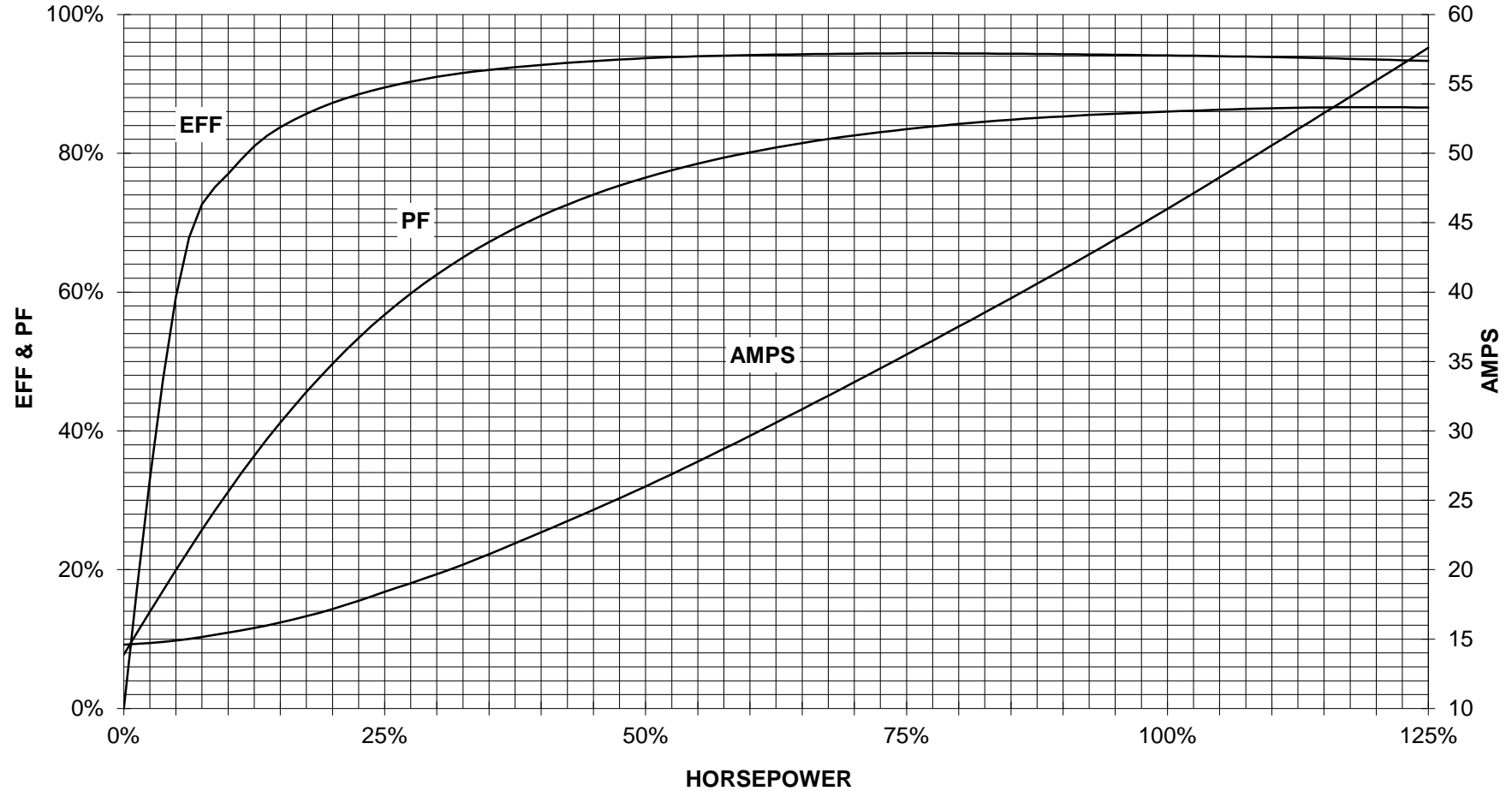
## TORQUE & CURRENT VS. SPEED



CUSTOMER: \_\_\_\_\_ ORDER#: \_\_\_\_\_

40 HP 1800 RPM 324T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

**SIEMENS INDUSTRY, INC.**  
**PERFORMANCE CURVE**  
**GP100**

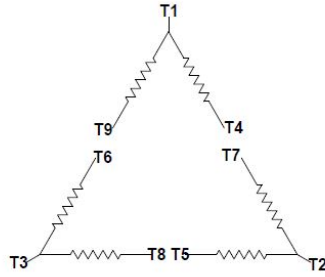


CUSTOMER: \_\_\_\_\_ ORDER #: \_\_\_\_\_

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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