

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

Motor type: **GP100** FS: **B445T - 4p - 150 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	150.00	110.00	1,800	170.00	130.60	94.10	52.00	1085.0	95.8	96.0	95.7	86.0	84.0	78.0	441.0	150	200	
400	$\Delta$	50	125.00		1,488	164.80	128.20	95.60	57.60	1100.0	95.3	95.4	94.9	85.0	81.9	73.7	441.5	189	258	

**without**

Frame Type: B445T	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: 1,737		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	73.0 dB(A) / 84.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	20 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	30 s
SPL@3	64.0	70.0	67.0	66.0	59.0	49.0	dB(A)	Frame material	cast iron
Moment of inertia	45.0 Lb-ft <sup>2</sup>							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	640.0 Lb ft <sup>2</sup>							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
<b>Bearings</b>								<b>Ventilation Type</b>	
Bearing DE   NDE	6318 Z C3 S0			6216 ZZ C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bidirectional	
AFBMA:	90BC03JP30			80BC02JPP30			Fan Material	Polypropylen ESD	
<b>Grease</b>								VFD	CT: 4:1 VT: 20:1
Capacity	10.4 oz			7.5 oz			Space heaters	without	
Grease Type:	Exxon Mobile EM							Brake:	without


## Terminal box

Lead Wire Connection	6 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	
----	----	----	----	----	Cable entry	3" NPT	
----	T1	T2	T3	----			

### 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

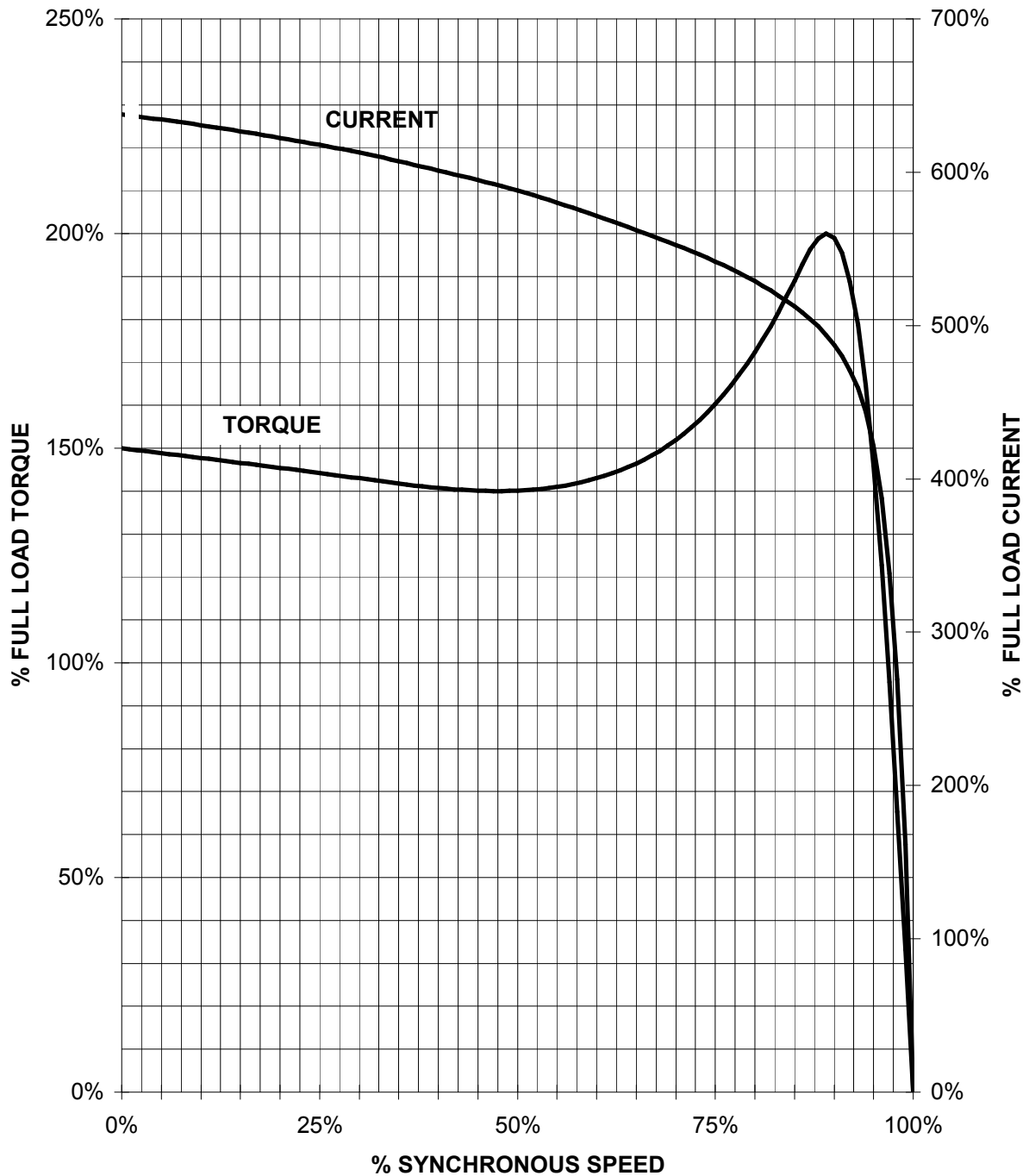
responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>			
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HP 150    VOLTS < 600V    RPM 1800    TYPE GP100  
HZ 60    PHASE 3    FRAME B445T    NEMA B

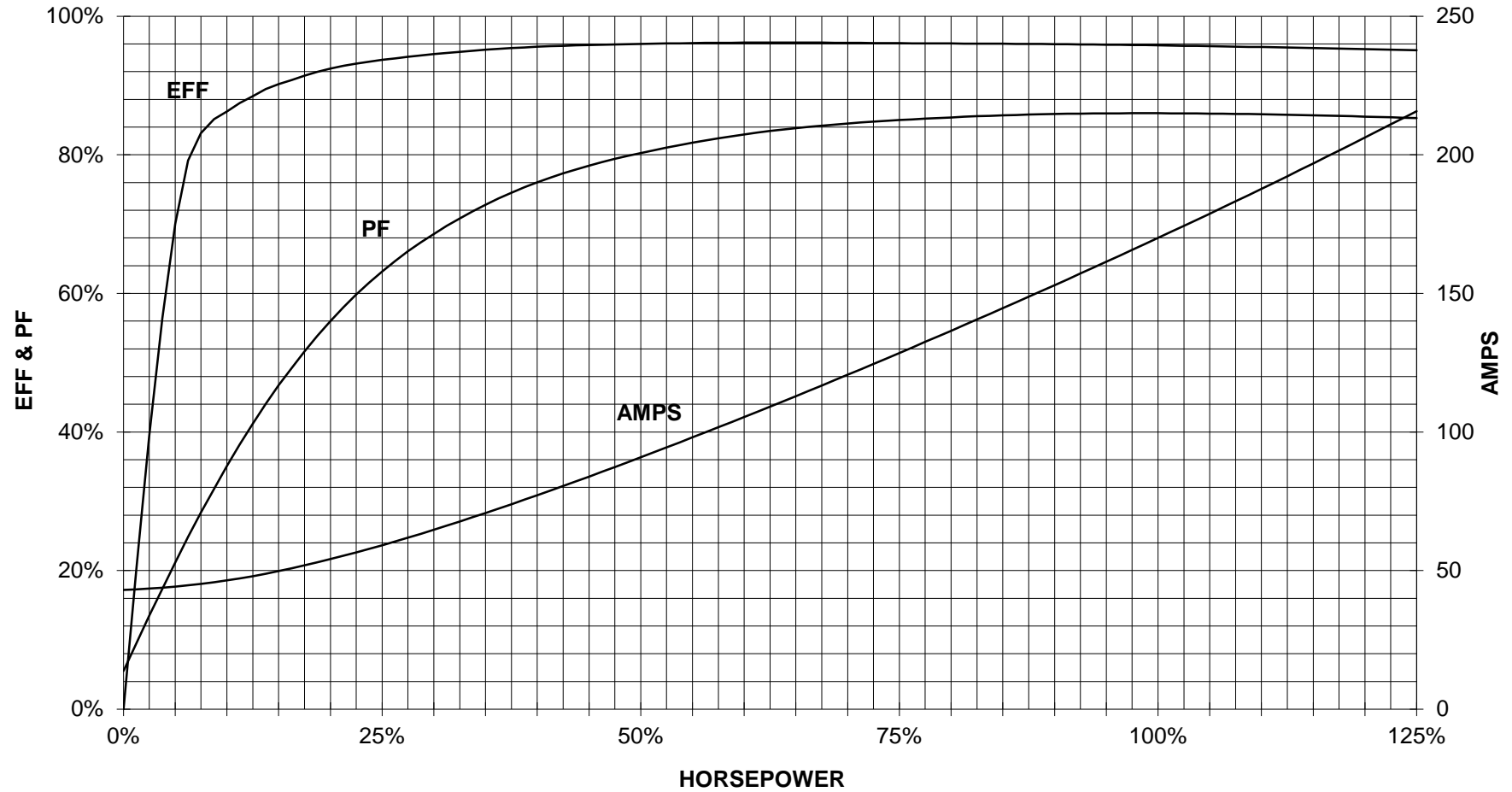
## TORQUE & CURRENT VS. SPEED



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

150 HP 1800 RPM B445T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

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

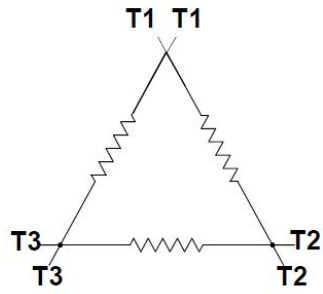


CUSTOMER: \_\_\_\_\_ ORDER #: \_\_\_\_\_

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

REV. 1

Main terminal diagram



6 LEAD DELTA			
LINES			CONN.
L1	L2	L3	
T1	T2	T3	Δ

responsible dep.  
DI MC LVM

technical reference

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Project

**SIEMENS**

document type  
Wiring Diagram

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document status  
free

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