

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

Motor type: **GP100** FS: **184T - 8p - 1.5 hp -**

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

## Electrical data

																			without		
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	Y	60	1.50	1.00	900	3.00	2.70	2.60	2.30	17.0	82.5	82.0	78.5	56.0	47.0	35.0	9.0	156	278		
230	YY	60	1.50	1.00	900	6.00	5.47	5.11	4.60	34.0	82.5	82.0	78.5	56.0	47.0	35.0	9.0	156	278		
Frame Type: 184T		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: 99							Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m				kVA: L		IP 55						

## Mechanical data

Sound level (SPL / SWL) at 60 Hz	54.0 dB(A) / 63.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	43 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	63 s
SPL@3	36.0	46.0	52.0	47.0	41.0	31.0	dB(A)	Frame material	cast iron
Moment of inertia	0.3 Lb-ft <sup>2</sup>							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	45.0 Lb ft <sup>2</sup>							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
<b>Bearings</b>								<b>Ventilation Type</b>	
Bearing DE   NDE	6206 ZZ C3 S0			6206 ZZ C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bidirectional	
AFBMA:	30BC02JPP30			30BC02JPP30			Fan Material	Polypropylen	
<b>Grease</b>								VFD	CT: 4:1 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					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	Aluminium					
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6					Cable entry	.75" 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

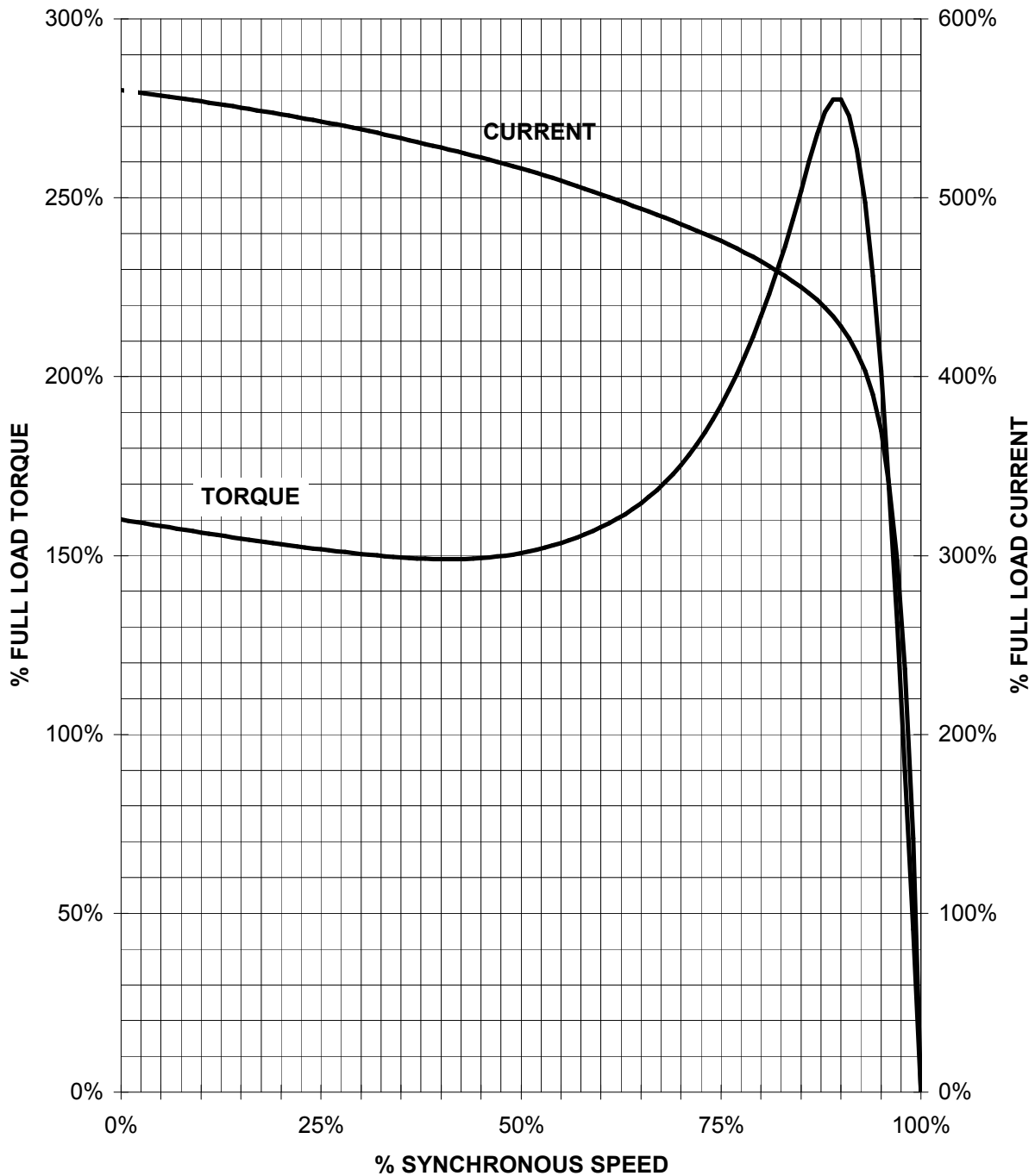
responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>			
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HP 1,5 VOLTS < 600V RPM 900 TYPE GP100  
HZ 60 PHASE 3 FRAME 184T NEMA B

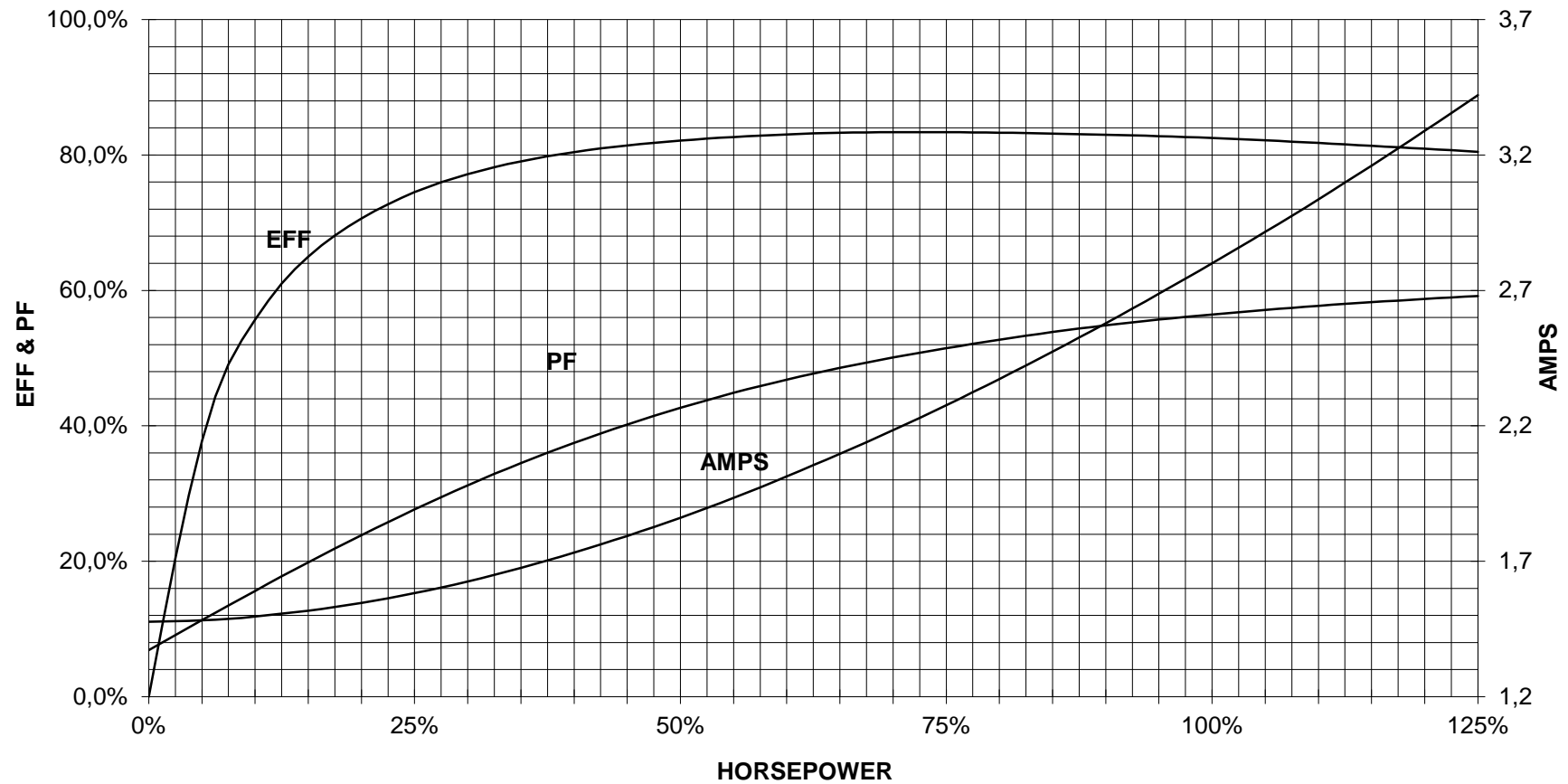
## TORQUE & CURRENT VS. SPEED



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

1.5 HP 900 RPM 184T 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 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	

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