

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

Motor type: **GP100** FS: **256T - 4p - 20 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	Y	60	20.00	15.00	1,800	25.00	19.80	15.40	10.50	145.0	93.0	93.4	93.1	80.5	75.9	65.3	60.0	183	240	
230	YY	60	20.00	15.00	1,800	50.00	39.62	30.80	21.00	290.0	93.0	93.4	93.1	80.5	75.9	65.3	60.0	183	240	
400	Y	50	15.00		1,475	21.30	18.60	15.50	12.60	168.5	91.5	91.3	90.3	81.4	70.2	56.8	53.4	299	348	
200	YY	50	15.00		1,475	42.60	37.20	31.00	25.20	337.0	91.5	91.3	90.3	81.4	70.2	56.8	53.4	299	348	
Frame Type: 256T		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: 266							Temp. Rise Cl.: B		Amb. Temp.: + 40 to -20 °C @1000 m			kVA: G		IP 55						

Mechanical data

Sound level (SPL / SWL) at 60 Hz	61.0 dB(A) / 73.0 dB(A)							Thickener	Polyurea
Octave Band Center Frequencies Hertz								Safe Stall Time Hot	15 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	33 s
SPL@3	47.0	53.0	59.0	56.0	47.0	38.0	dB(A)	Frame material	cast iron
Moment of inertia	2.1 Lb-ft ²							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	99.0 Lb ft ²							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearings								Ventilation Type	
Bearing DE NDE	6209 ZZ C3 S0			6209 ZZ C3 S0			Method of cooling	TEFC	
Bearing_Type	Ball Bearing			Ball Bearing			Direction of rotation	Bidirectional	
AFBMA:	45BC02JPP30			45BC02JPP30			Fan Material	Polypropylen	
Grease								VFD	CT: 4:1 VT: 20:1
Capacity	0.5 oz			0.5 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	1.25" 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_L/M_N = break down torque / nominal torque

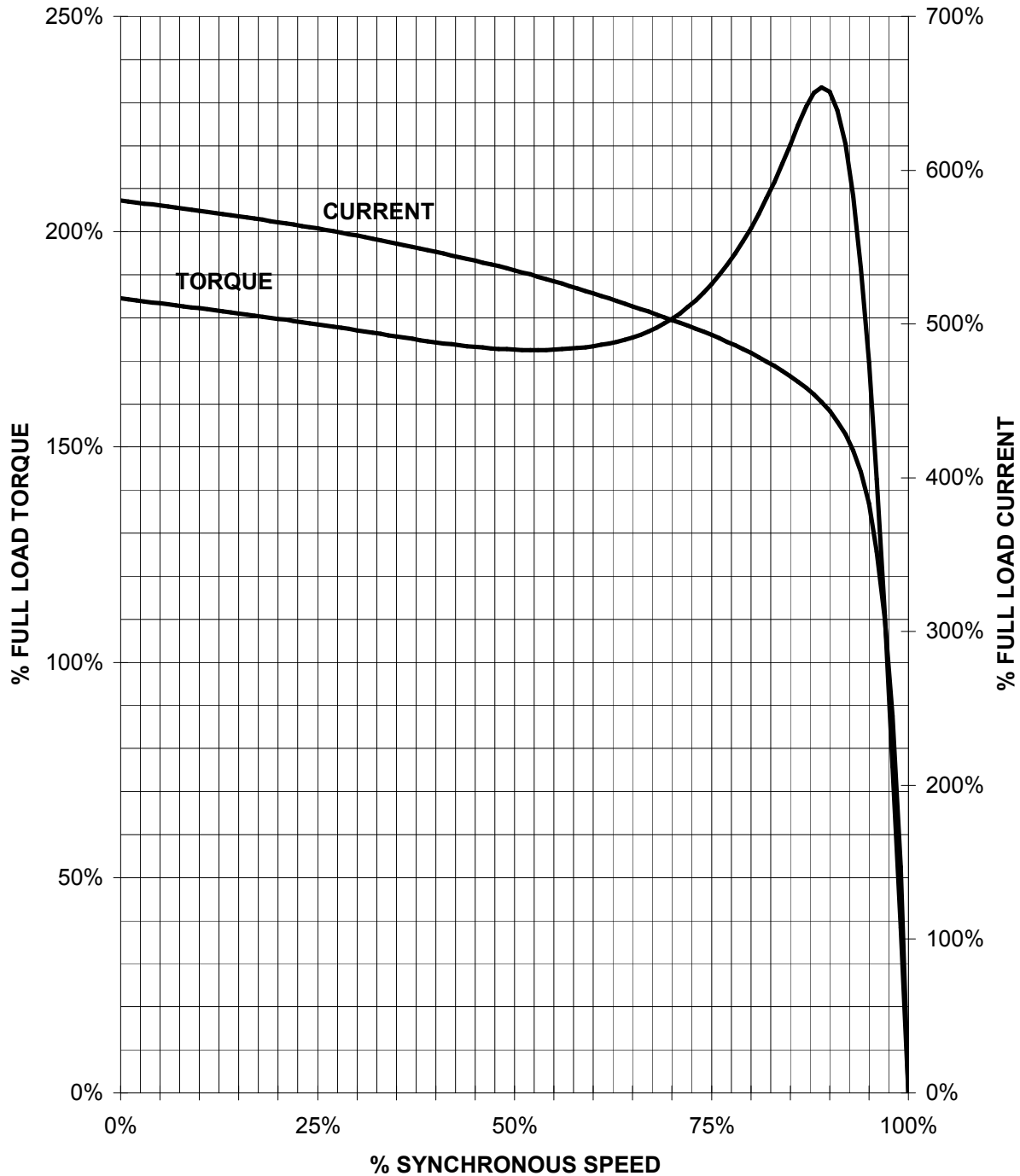
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

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 software and hardware versions</i>			
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HP 20 VOLTS < 600V RPM 1800 TYPE GP100
HZ 60 PHASE 3 FRAME 256T NEMA B

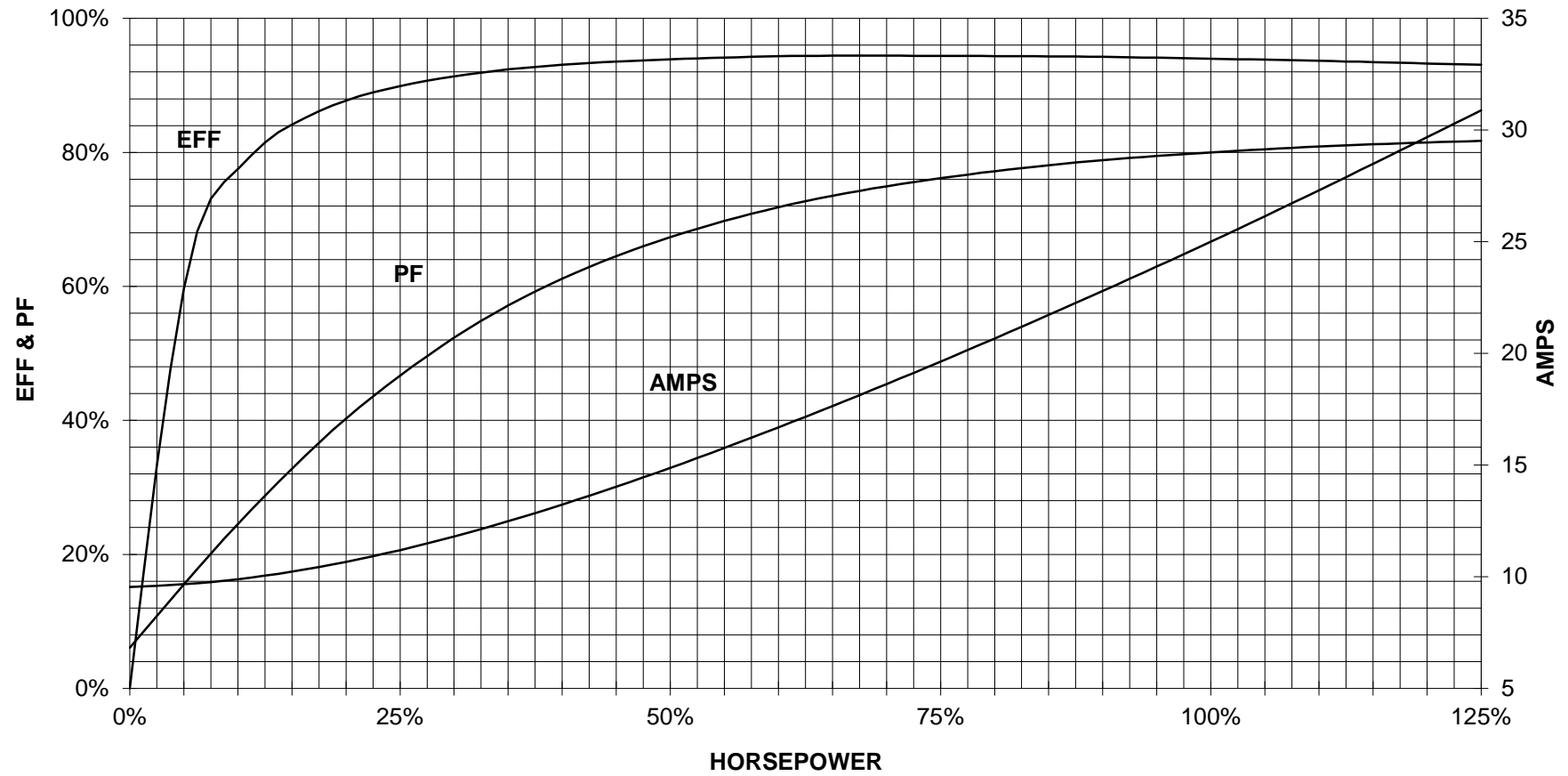
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

20 HP 1800 RPM 256T 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	

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