

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

Motor type: **GP100** FS: **182T - 8p - 1 hp -**

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

Remarks

Electrical data

without

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	1.00	0.75	900	2.10	1.90	1.70	1.50	9.0	81.5	80.0	77.0	56.0	47.0	36.0	6.0	158	283	
230	YY	60	1.00	0.75	900	4.20	3.74	3.38	3.00	18.0	81.5	80.0	77.0	56.0	47.0	36.0	6.0	158	283	

Frame Type: 182T	Type of constr.: (E) Foot mounted - C-Face	Ins. Cl.: Standard Class F Insulation	Motor Prot.: (A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mtr. WT: 86		Temp. Rise Cl.: B	Amb. Temp.: + 40 to -20 °C @1000 m	kVA: J	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	50 s
	250	500	1000	2000	4000	8000	Hz	Safe Stall Time Cold	68 s
SPL@3	36.0	46.0	52.0	47.0	41.0	31.0	dB(A)	Frame material	cast iron
Moment of inertia	0.2 Lb-ft ²							Color, paint shade	Standard Paint - RAL7030
Ext Load Inertia Capability:	31.0 Lb ft ²							Coating (paint finish)	Standard Alkyed + Epoxy (C2)
Bearings								Ventilation Type	
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	
Grease								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_r/I_N = locked rotor current / current nominal
M_r/M_N = locked rotor torque / torque nominal
M_b/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

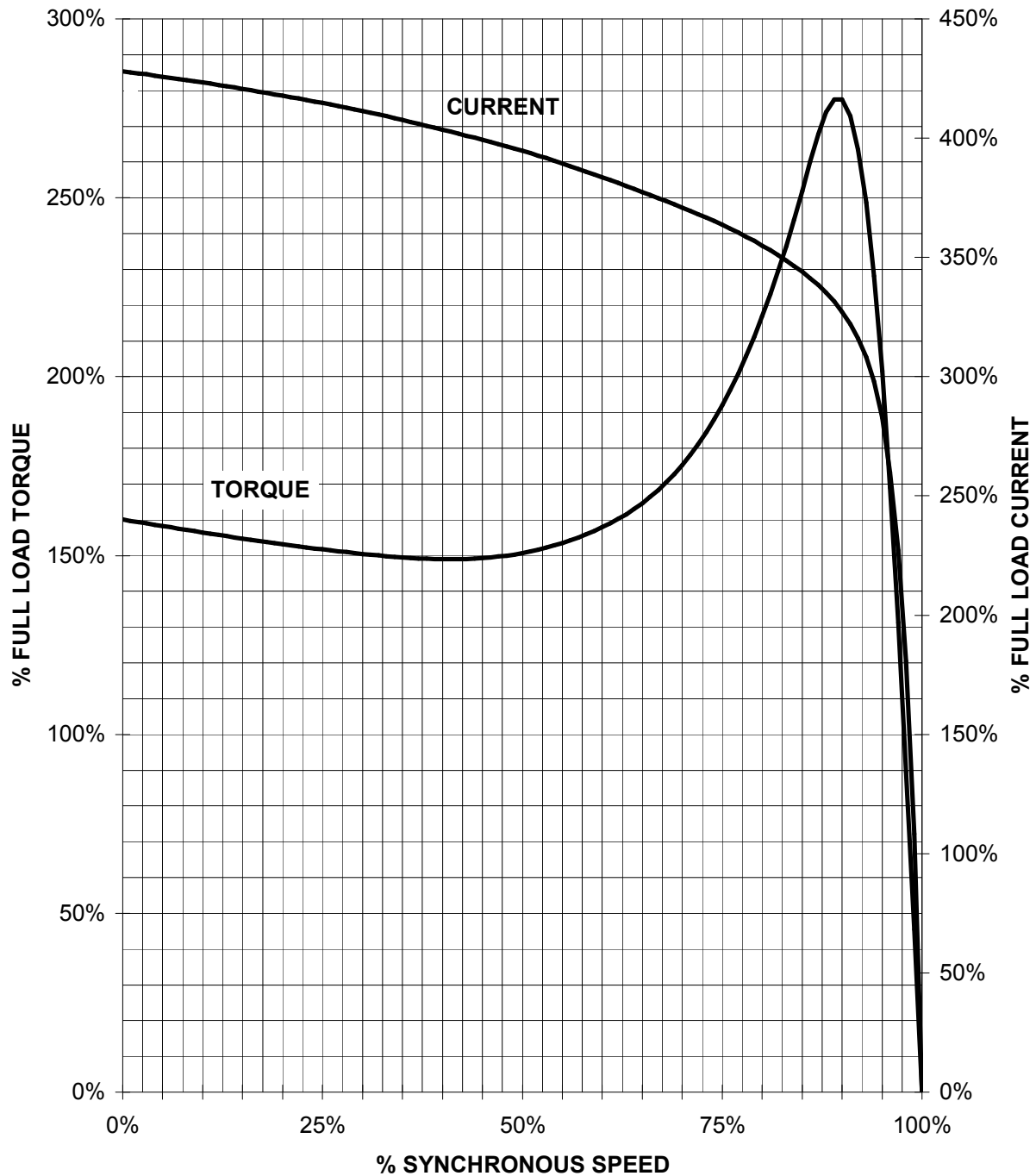
responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i>
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	document type datasheet	document status released	customer	
	title 1LE2221-1CD11-4EA3	document number		
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SIEMENS INDUSTRY, INC.

HP 1 VOLTS < 600V RPM 900 TYPE GP100
HZ 60 PHASE 3 FRAME 182T NEMA B

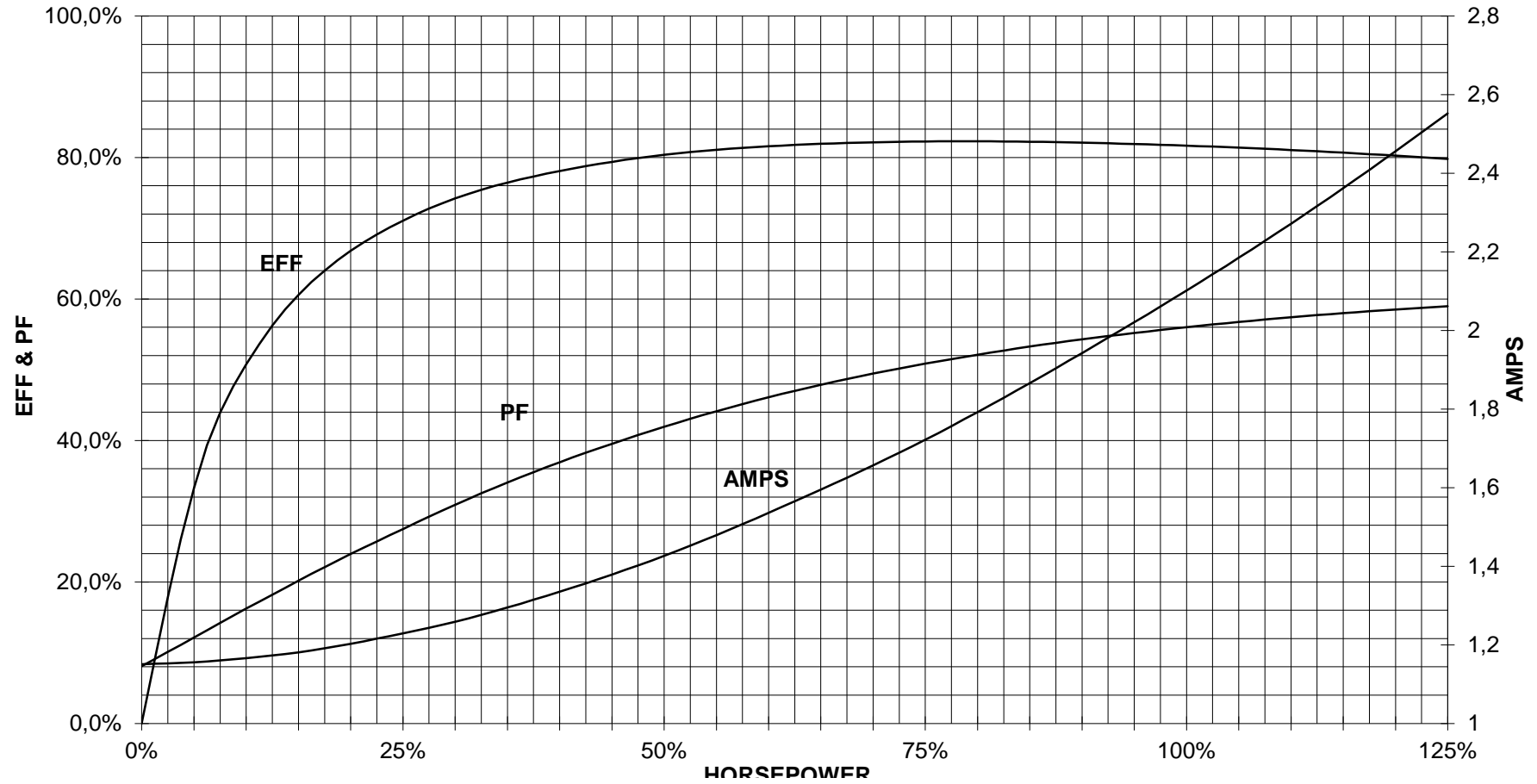
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

1 HP 900 RPM 182T 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
SIEMENS	document type Wiring Diagram	document status free		customer
	title 1LE2221-1CD11-4EA3	document number		
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