

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

Motor type: **GP100** FS: **445T - 4p - 150 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				
575	Δ	60	150.00	110.00	1,800	136.00	104.50	75.30	41.60	868.0	95.8	96.0	95.7	86.0	84.0	78.0	441.0	150	200	
Frame Type: 445T		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: 1,753						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 ²		Color, paint shade	Standard Paint - RAL7030					
Ext Load Inertia Capability:	640.0 Lb ft ²		Coating (paint finish)	Standard Alkyed + Epoxy (C2)					
Bearings			Ventilation Type						
Bearing DE NDE	NU 318		6316 Z C3 S0	Method of cooling	TEFC				
Bearing_Type	Roller Bearing		Ball Bearing	Direction of rotation	Bidirectional				
AFBMA:	90RU03M0		80BC03JP30	Fan Material	Polypropylen ESD				
Grease			VFD	CT: 4:1 VT: 20:1					
Capacity	14.5 oz		7.5 oz	Space heaters	without				
Grease Type:	Exxon Mobile EM		Brake:	without					


Terminal box

Lead Wire Connection					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_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

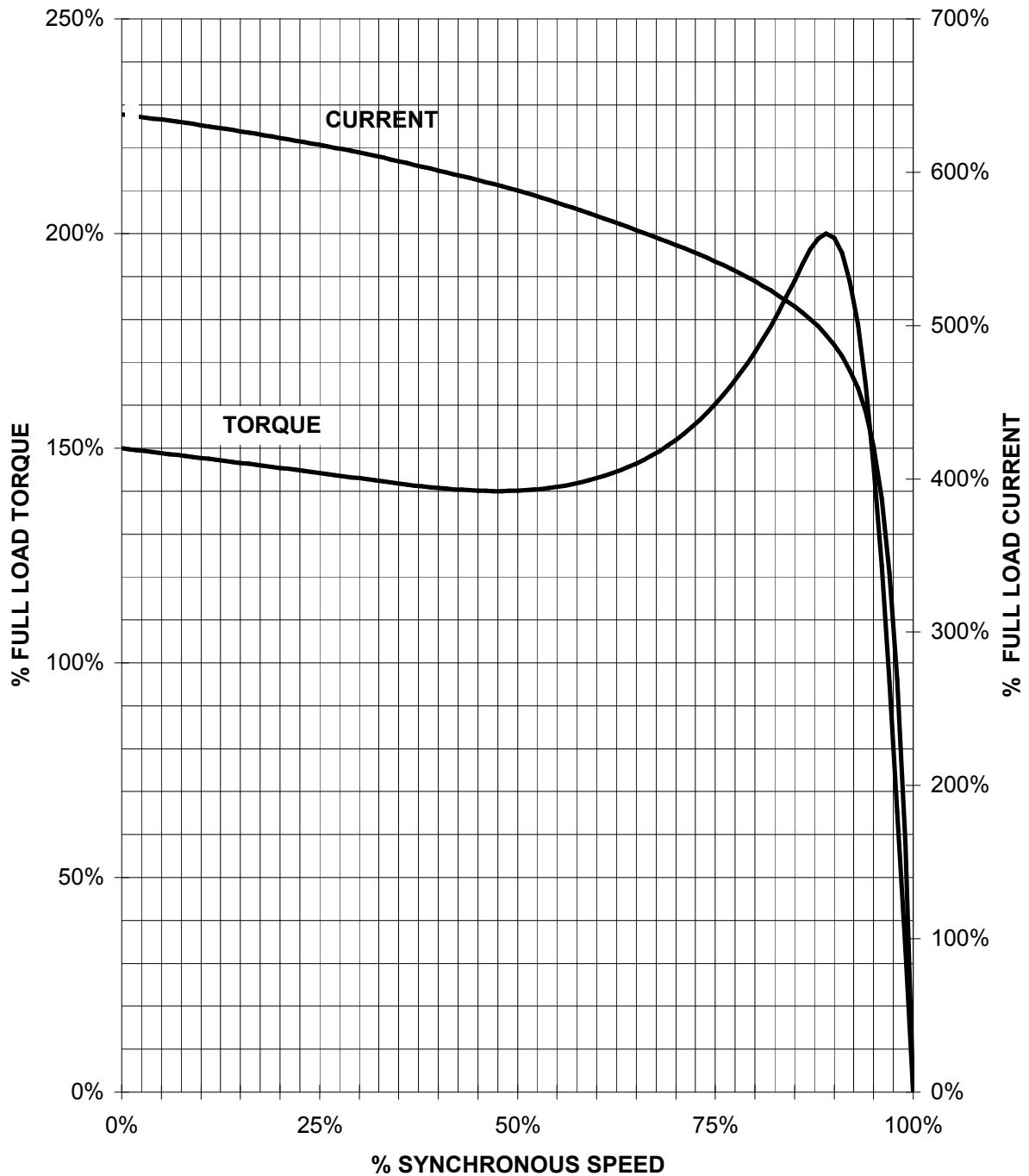
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

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>	
	document type datasheet	document status released	customer		
	title 1LE2221-4CB21-3AA3	document number			
© Siemens AG 2022	rev. 01	creation date 2022-04-08 22:53	language en	Page 1/1	

SIEMENS INDUSTRY, INC.

HP 150 VOLTS < 600V RPM 1800 TYPE GP100
HZ 60 PHASE 3 FRAME 445T NEMA B

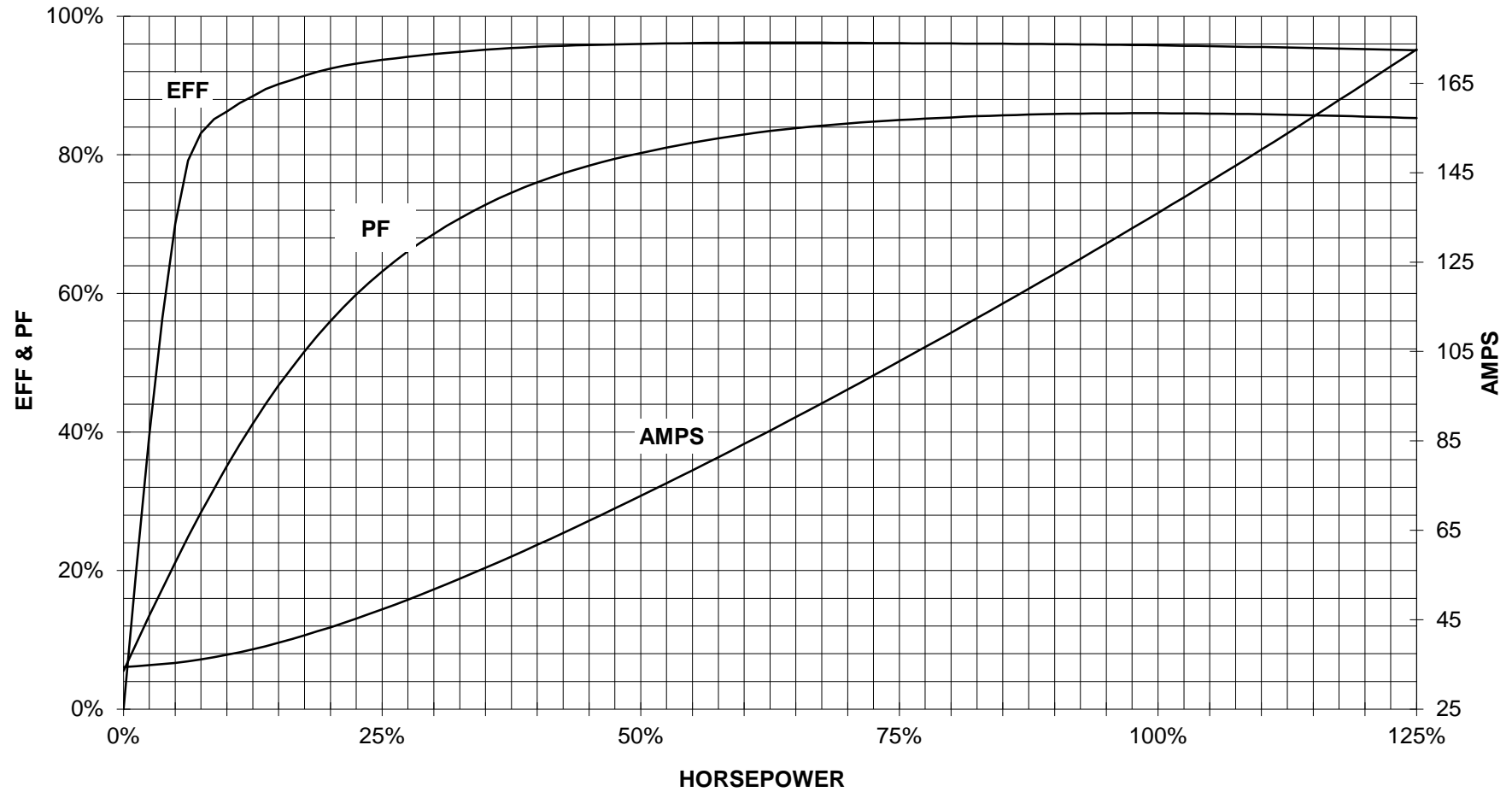
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

150 HP 1800 RPM 445T FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100

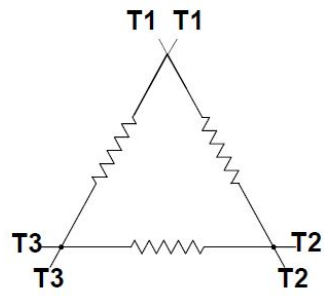


CUSTOMER: _____ ORDER #: _____


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	created by	approved by	Project	
	document type Wiring Diagram		document status free		customer
	title 1LE2221-4CB21-3AA3		document number		
© Siemens AG 2019		rev. 01	creation date 12/03/2019	language en	Page 1/1