

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

Totally Enclosed Fan Cooled (TEFC)



MLFB-Ordering data: 1LE2121-2AB21-4AA3

Motor type: GP100A - NEMA Premium Efficiency

Client order no.:

Order no.:

Offer no.:

Remarks:

Item no.:

Consignment no.:

Project:

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]	$T_A/T_N$ LRT [%]	$T_k/T_N$ BDT [%]
						4/4	3/4	1/2	0	4/4		3/4	1/2	4/4	3/4	1/2				
460	Y	60	10.00	7.50	1,755	12.50	10.00	8.00	6.10	81.0	91.7	92.2	91.7	81.7	76.2	63.8	30.0	270	410	
230	YY	60	10.00	7.50	1,755	25.00	19.99	16.00	12.20	162.0	91.7	92.2	91.7	81.7	76.2	63.8	30.0	270	410	

Frame Type 215T	Type of constr.: (A) Foot mounted - End shield	Ins. Cl.: F	Motor Prot.: (A) Without Protection	NEMA Des.: B	S.F.: 1.15
Mfr WT: 152 lbs	Mounting: (3) F-1, Standard Floor Mount, T. Box LHS	Temp. Rise Cl.: B	Amb. Temp.: +40 to -20 °C @1000 m	kVA: H	IP55

### Mechanical data

#### WK2

Rotor Moment of Inertia: 1 Lb-ft<sup>2</sup>

Ext Load Inertia Capability: 51.0 Lb-ft<sup>2</sup>

#### Safe Stall Time

Hot: 20.0 s

Cold: 36.0 s

#### Typical Noise Data

A-weighted Sound

Sound Pressure: 69.0 dB(A)

Sound Power: 57.0 dB(A)

Octave Band Center Frequencies Hertz

	250	500	1000	2000	4000	8000	Hz
SPL@3 feet	37.0	44.0	54.0	53.0	44.0	35.0	dB(A)

#### Bearings

	DE	NDE
Bearing size:	6208 ZZ C3 S0	6208 ZZ C3 S0
Bearing Type:	Ball Bearing	Ball Bearing
AFBMA:	40BC02JPP30	40BC02JPP30

#### Grease

Capacity:	0.30 oz	0.30 oz
Type:	Exxon Mobile EM	
Thickener:	Polyurea	

#### Frame

Frame material:	aluminum
Coating (paint finish):	Standard Paint
Color, paint shade:	RAL 7030

#### Terminal box

Terminal box position: (3) F-1, Standard Floor Mount, T. Box LHS

#### Lead Wire Connection

Description:	9 LEAD - WYE				
Voltage	L1	L2	L3	Connected together	
LOW	T1 T7	T2 T8	T3 T9	T4 T5 T6	YY
HIGH	T1	T2	T3	T4 T7-T5 T8-T6 T9	Y

#### Ventilation Type

Type of Cooling:	TEFC
Fan Material:	Polypropylen
Fan Rotation:	Bidirectional

#### Additional information

VFD Operation:	CT: 4:1	VT: 20:1
Area: classification:	without	

#### Notes

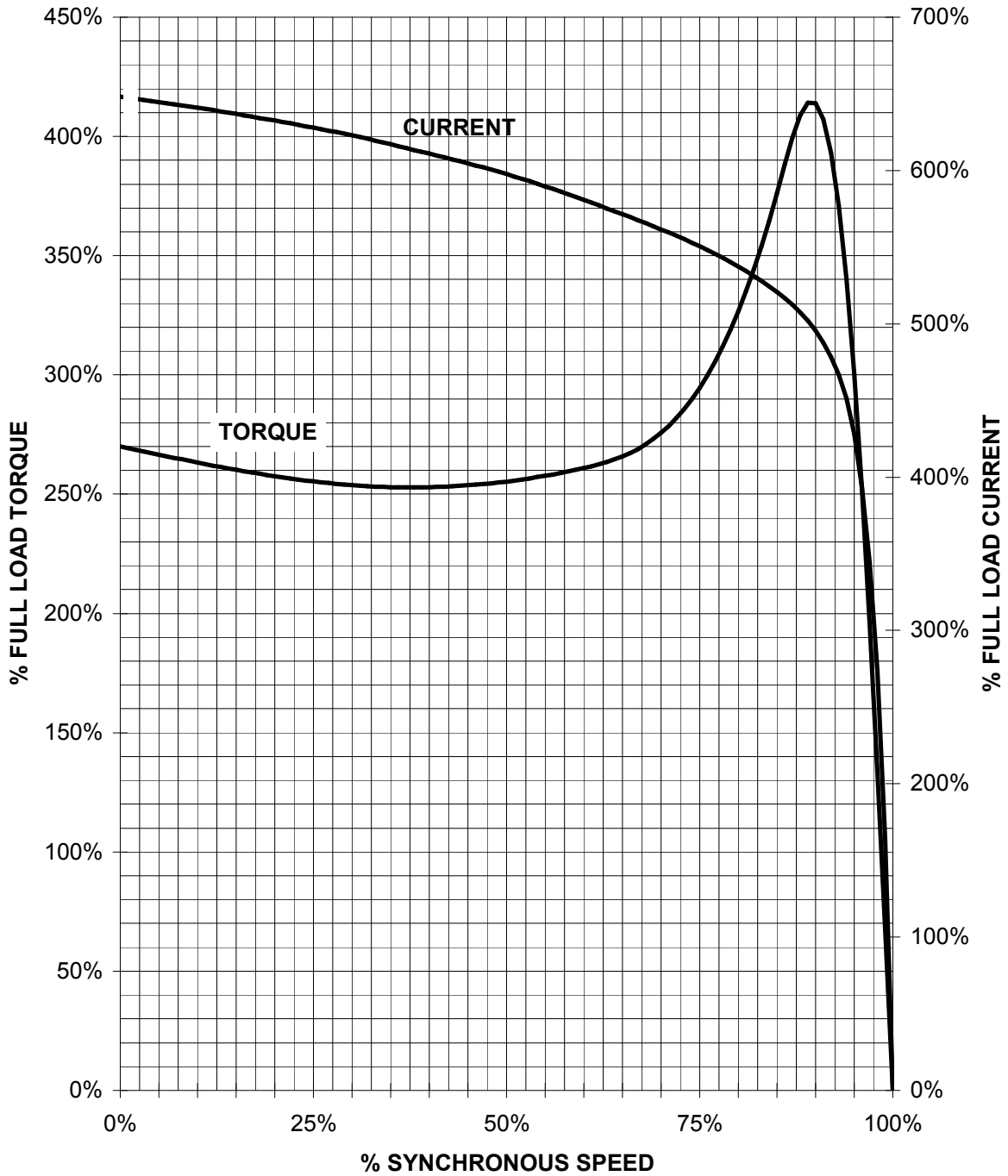
$I_A/I_N$  = locked rotor current / current nominal  $T_k/T_N$  = break down torque / nominal torque  
 $T_A/T_N$  = locked rotor torque / torque nominal <sup>1)</sup> Value is valid only for DOL operation with motor design IC411



# SIEMENS INDUSTRY, INC.

HP 10 VOLTS < 600V RPM 1800 TYPE GP100A  
HZ 60 PHASE 3 FRAME 215T NEMA B

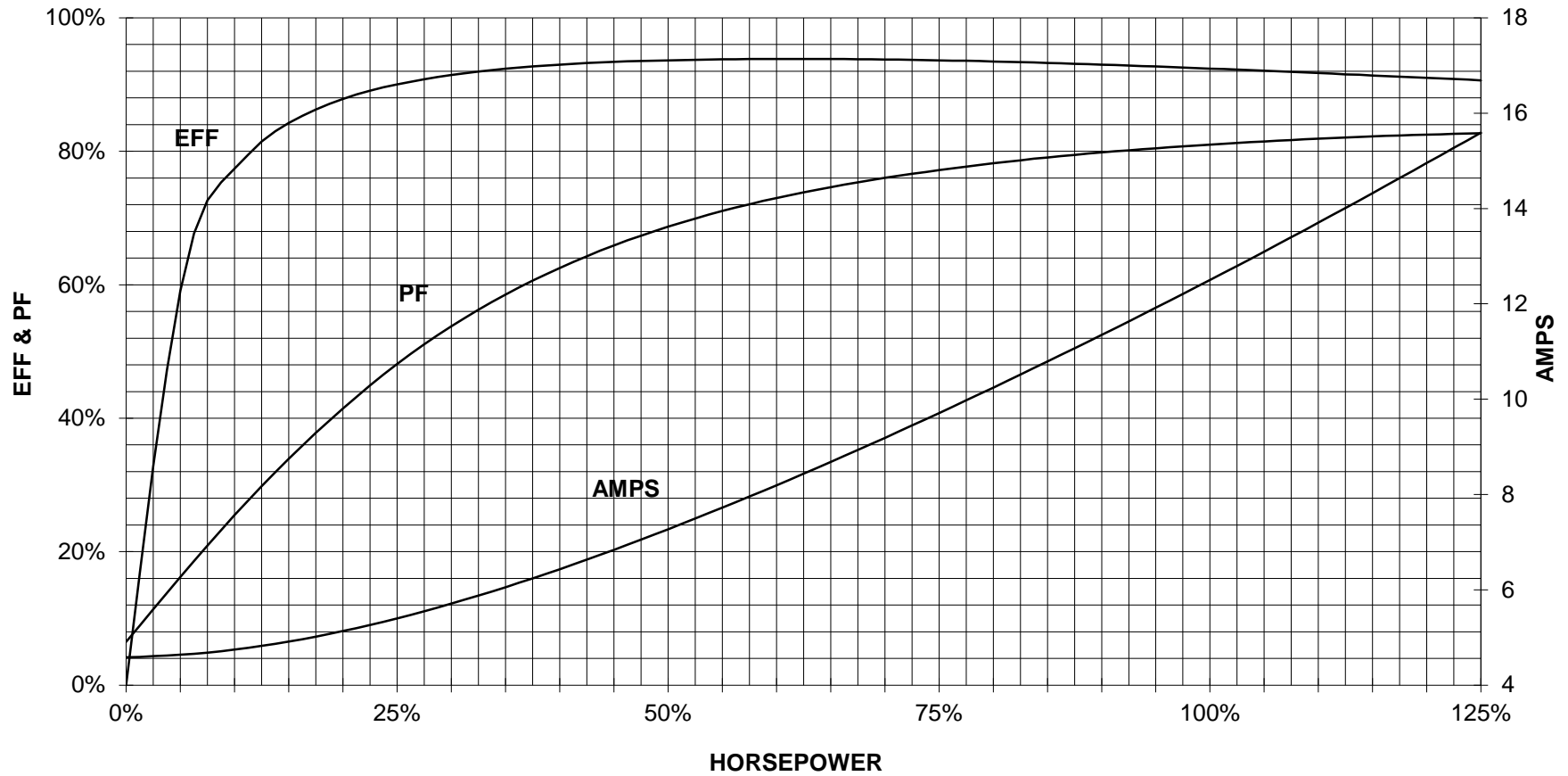
## TORQUE & CURRENT VS. SPEED



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

10 HP 1800 RPM 215 FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

**SIEMENS INDUSTRY, INC.**  
**PERFORMANCE CURVE**  
**GP100A NP**



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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