

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

Motor type: GP100A **FS: 215T - 6p - 5 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 | 5.00 | 4.00 | 1,200 | 6.70 | 5.50 | 4.40 | 3.50 | 46.0 | 89.5 | 90.1 | 89.5 | 78.1 | 71.4 | 59.4 | 26.5 | 189 | 325 | |
| 230 | YY | 60 | 5.00 | 4.00 | 1,200 | 13.40 | 10.92 | 8.81 | 7.00 | 92.0 | 89.5 | 90.1 | 89.5 | 78.1 | 71.4 | 59.4 | 26.5 | 189 | 325 | |
| 400 | Y | 50 | 3.00 | | 978 | 5.43 | 4.76 | 4.23 | 3.71 | 43.7 | 84.4 | 83.6 | 81.1 | 67.4 | 58.2 | 45.0 | 16.2 | 349 | 680 | |
| 200 | YY | 50 | 3.00 | | 978 | 10.86 | 9.52 | 8.46 | 7.42 | 87.4 | 84.4 | 83.6 | 81.1 | 67.4 | 58.2 | 45.0 | 16.2 | 349 | 680 | |

without

Mechanical data

| | | | | | | | | | |
|--------------------------------------|-------------------------|---------------|-------------------------|------------------------------|------|------|----------------------|----------------|----------|
| Sound level (SPL / SWL) at 60 Hz | 64.0 dB(A) / 71.0 dB(A) | | Thickener | Polyurea | | | | | |
| Octave Band Center Frequencies Hertz | | | Safe Stall Time Hot | 14 s | | | | | |
| 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz | Safe Stall Time Cold | 21 s | |
| SPL@3 | 42.0 | 52.0 | 64.0 | 54.0 | 47.0 | 34.0 | dB(A) | Frame material | aluminum |
| Moment of inertia | 0.7 Lb-ft ² | | Color, paint shade | Standard Paint - RAL7030 | | | | | |
| Ext Load Inertia Capability: | 71.0 Lb ft ² | | Coating (paint finish) | Standard Alkyed + Epoxy (C2) | | | | | |
| Bearings | | | Ventilation Type | | | | | | |
| Bearing DE NDE | 6208 ZZ C3 S0 | 6208 ZZ C3 S0 | Method of cooling | TEFC | | | | | |
| Bearing_Type | Ball Bearing | Ball Bearing | Direction of rotation | Bidirectional | | | | | |
| AFBMA: | 40BC02JPP30 | 40BC02JPP30 | Fan Material | Polypropylen | | | | | |
| Grease | | | VFD | CT: 4:1 VT: 20:1 | | | | | |
| Capacity | 0.3 oz | 0.3 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" 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_B/M_N = break down torque / nominal torque

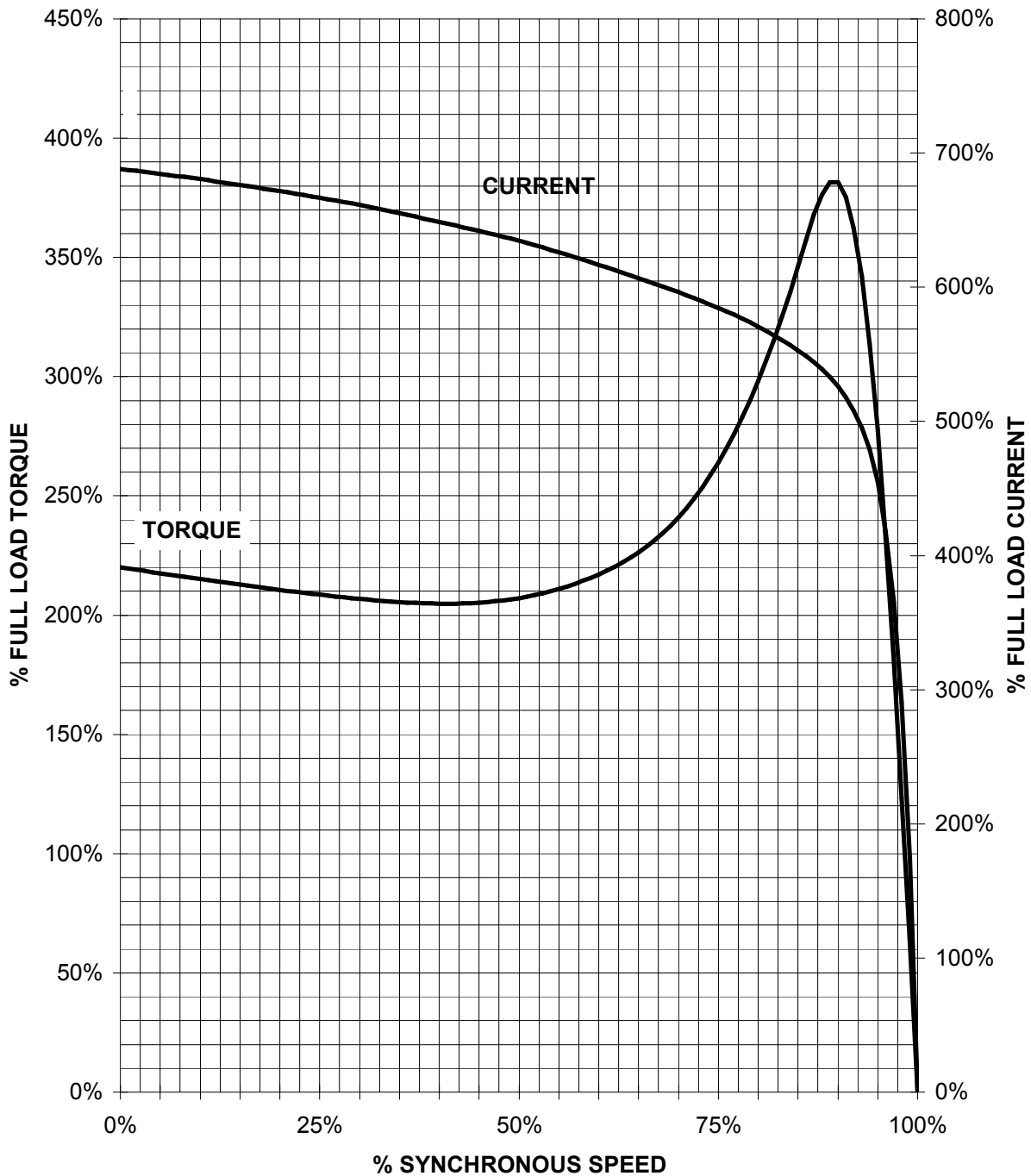
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

| | | | | | |
|--|-----------------------------|-------------------------------|-------------|--|----------------|
| 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 our website and our data sheets.</i> | |
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HP 5 VOLTS < 600V RPM 1200 TYPE GP100A
HZ 60 PHASE 3 FRAME 215T NEMA B

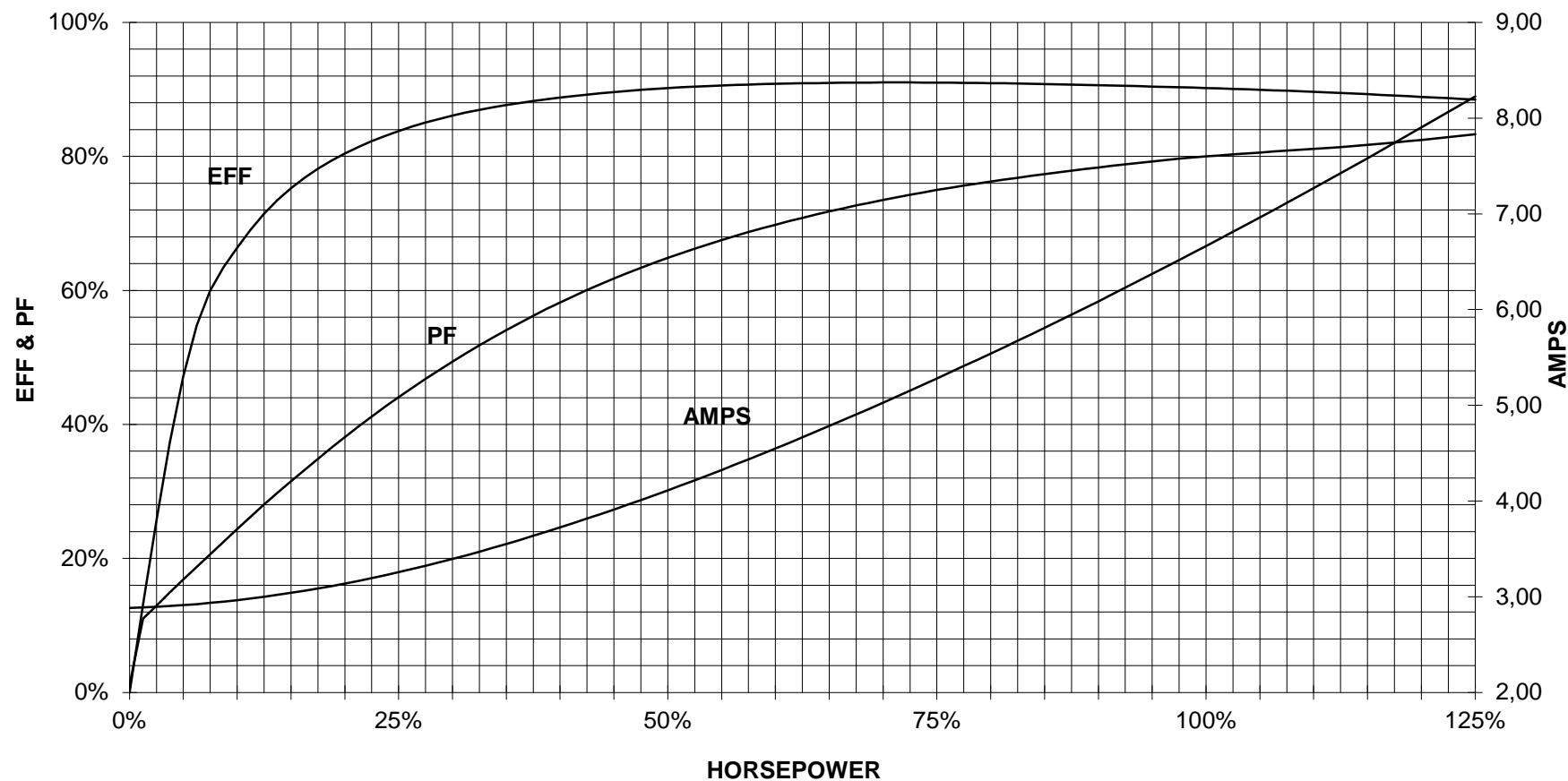
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

5 HP 1200 RPM 215 FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100A NP

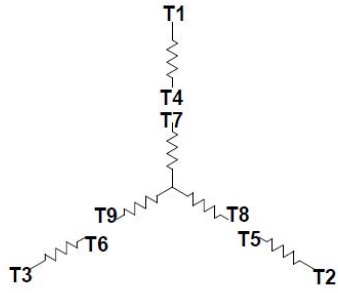


CUSTOMER _____ ORDER # _____ PO # _____

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 |
| SIEMENS | document type Wiring Diagram | document status free | | customer |
| | title 1LE2121-2AC21-4AA3 | document number | | |
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