

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

Motor type: **GP100** FS: **182T - 4p - 3 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 | Y | 60 | 3.00 | 2.00 | 1,800 | 3.20 | 2.60 | 2.20 | 1.70 | 26.4 | 89.5 | 89.4 | 87.8 | 78.5 | 71.7 | 59.5 | 9.0 | 233 | 356 | |

| | | | | | |
|------------------|--|---------------------------------------|-------------------------------------|--------------|------------|
| Frame Type: 182T | 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: 85 | | Temp. Rise Cl.: B | Amb. Temp.: + 40 to -20 °C @1000 m | kVA: K | IP 55 |

Mechanical data

| | | | | | | | | | |
|--------------------------------------|-------------------------|------|------|---------------|------|------|-------|-------------------------|------------------------------|
| Sound level (SPL / SWL) at 60 Hz | 57.0 dB(A) / 67.0 dB(A) | | | | | | | Thickener | Polyurea |
| Octave Band Center Frequencies Hertz | | | | | | | | Safe Stall Time Hot | 17 s |
| | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz | Safe Stall Time Cold | 29 s |
| SPL@3 | 42.0 | 46.0 | 54.0 | 49.0 | 43.0 | 32.0 | dB(A) | Frame material | cast iron |
| Moment of inertia | 0.3 Lb-ft ² | | | | | | | Color, paint shade | Standard Paint - RAL7030 |
| Ext Load Inertia Capability: | 17.0 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

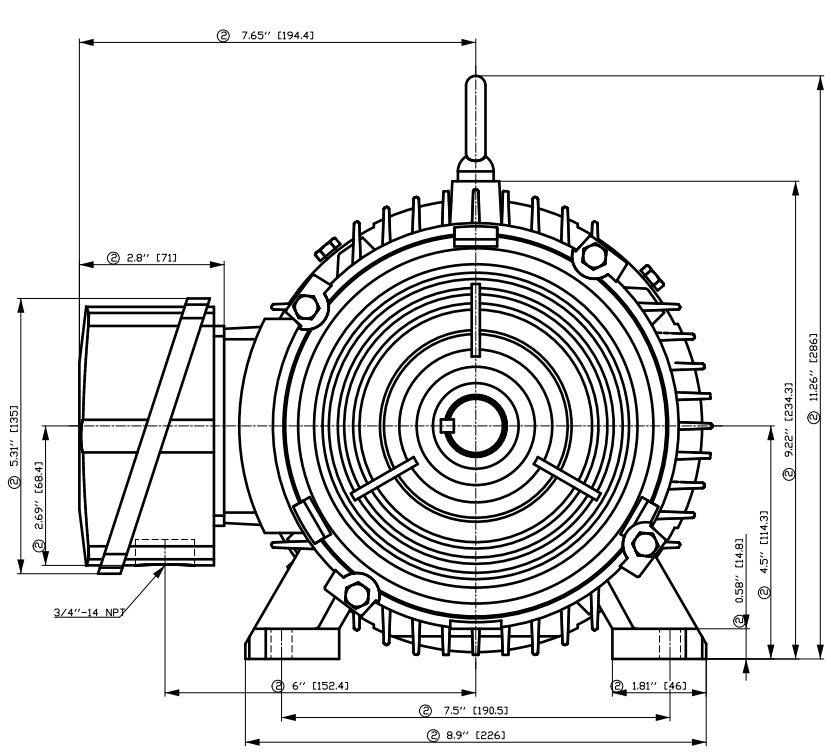
| | | | | | | |
|----------------------|------|------|------|--------------------|--------------------------|---|
| Lead Wire Connection | | | | 3 LEAD - WYE | Terminal box position | (3) F-1, Standard Floor Mount, T. Box LHS |
| Voltage | L1 | L1 | L1 | Connected together | Material of terminal box | Aluminium |
| ---- | ---- | ---- | ---- | ---- | Cable entry | .75" NPT |
| ---- | T1 | T2 | T3 | ---- | | |

Notes:

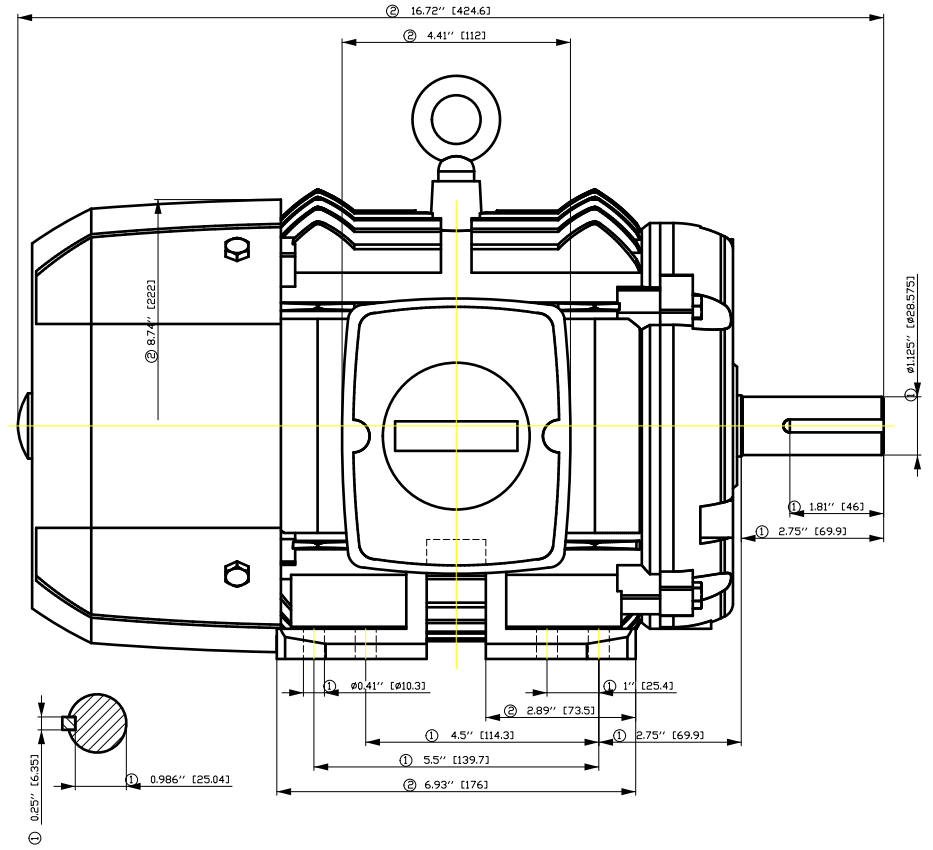
I_L/I_N = locked rotor current / current nominal
M_L/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque

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 software and hardware versions</i> | | | |
|  | document type datasheet | document status released | | customer | | | |
| | title 1LE2221-1CB11-3AA3 | document number | | | | | |
| © Siemens AG 2022 | rev. 01 | creation date 2022-04-08 16:32 | language en | Page 1/1 | | | |



- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

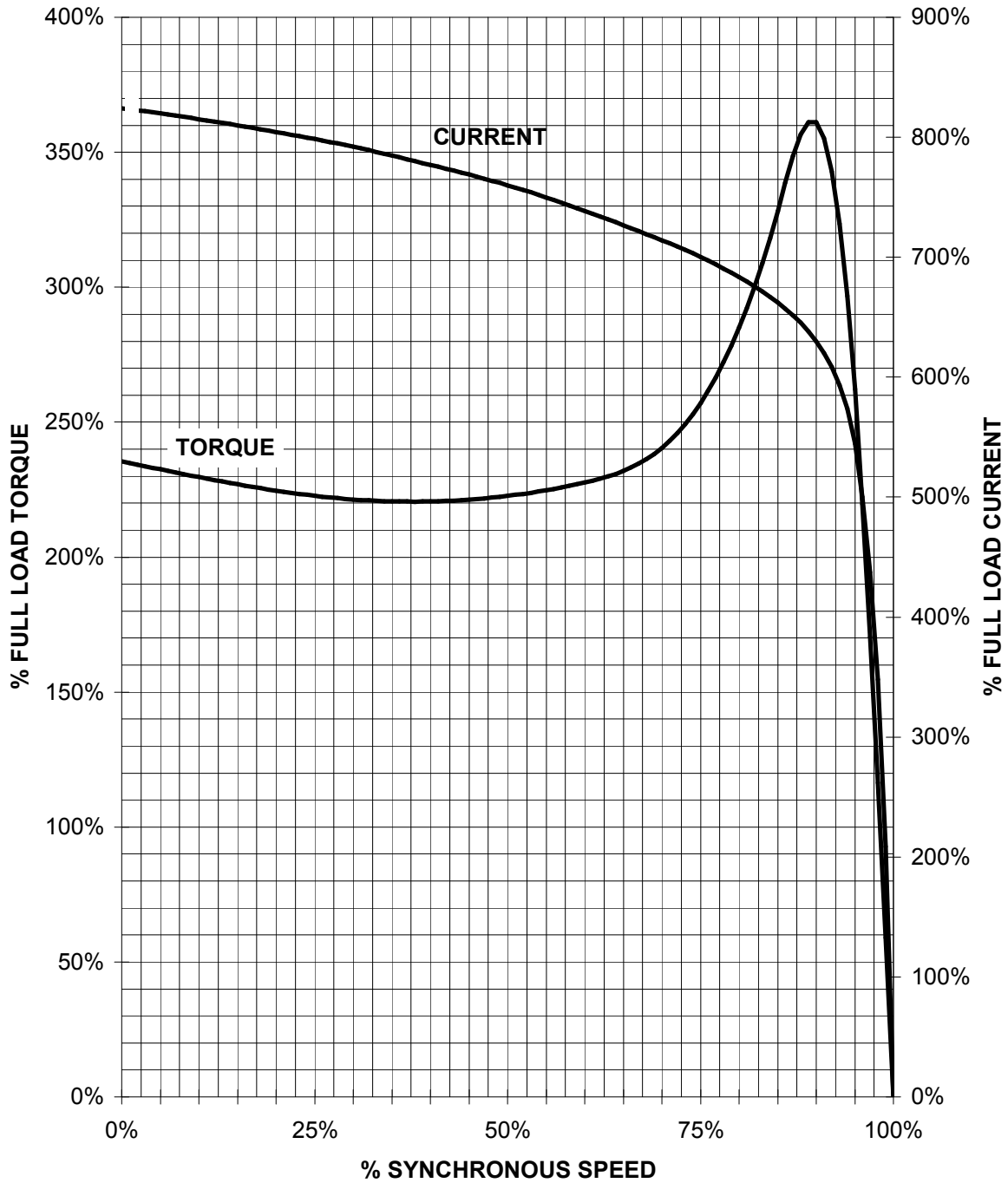


| Tolerance | Surface | Material | Weight | Scale |
|-------------------|--------------|-----------------------|----------|--------------|
| F50GGF#00FF#00EH | Author | ÖS T a : ^ & @ } * | E | 1:1 |
| E | Creator | | | |
| | Approval | | | |
| | Department | | | |
| | Change Order | MFB | Doc Type | / |
| SIEMENS | Doc State | I 00GG | Item No | Paper Size |
| | Revision | Index | Doc No | 1st Language |
| | | | | 2nd Language |
| © Siemens AG 2018 | Project No | E | Ref No | E |
| | | | | Sheet F of F |

SIEMENS INDUSTRY, INC.

HP 3 VOLTS < 600V RPM 1800 TYPE GP100
HZ 60 PHASE 3 FRAME 182T NEMA B

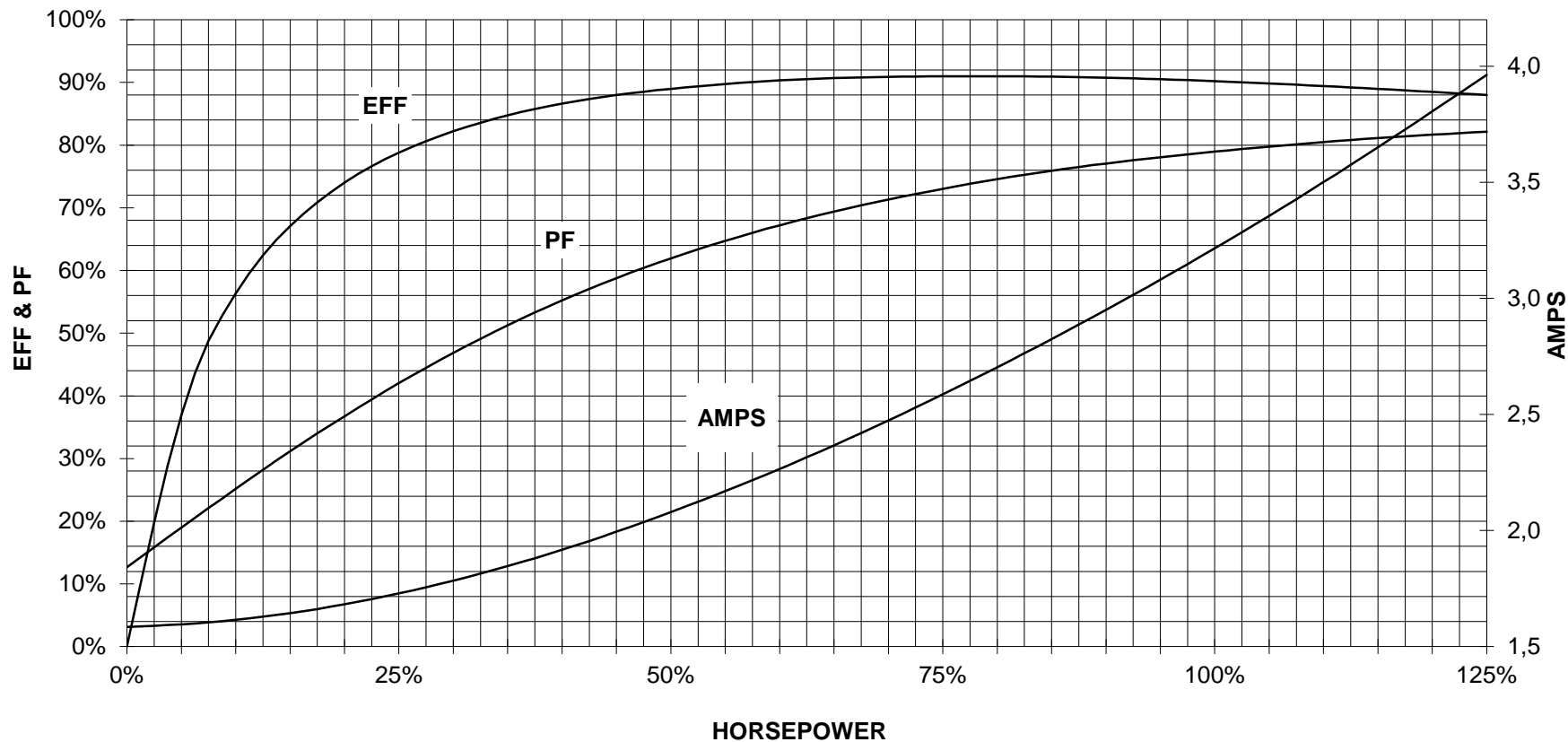
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

3 HP 1800 RPM 182T FRAME 575 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100

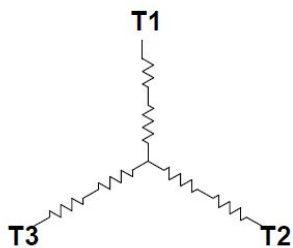


CUSTOMER _____ ORDER # _____ PO # _____

PERFORMANCE BASED ON DESIGN CALCULATIONS. SUBJECT TO CHANGE WITHOUT NOTICE.

REV. 1

Main terminal diagram



| 3 LEAD WYE | | | |
|------------|----|----|-------|
| LINES | | | CONN. |
| L1 | L2 | L3 | |
| T1 | T2 | T3 | Y |

| | | | | | |
|-------------------------------|---------------------------------|-----------------------------|----------------|-------------|--|
| responsible dep. DI MC LVM | technical reference | created by | approved by | Project | |
| SIEMENS | document type Wiring Diagram | document status free | | customer | |
| | title 1LE2221-1CB11-3AA3 | document number | | | |
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