

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

Motor type: **GP100** FS: 445TS - 6p - 125 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 | Δ | 60 | 125.00 | 90.00 | 1,200 | 144.00 | 112.20 | 83.20 | 48.00 | 908.0 | 95.0 | 95.4 | 95.1 | 85.0 | 82.0 | 74.0 | 554.0 | 160 | 200 | |
| 400 | Δ | 50 | 100.00 | | 991 | 133.74 | 103.77 | 76.78 | 49.65 | 949.4 | 94.6 | 94.9 | 94.7 | 83.8 | 80.7 | 72.8 | 530.0 | 221 | 267 | |

| | | | | | |
|-------------------|--|---------------------------------------|-------------------------------------|--------------|------------|
| Frame Type: 445TS | 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: 1,766 | | 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 | 66.0 dB(A) / 77.0 dB(A) | | | | | | | Thickener | Polyurea |
| Octave Band Center Frequencies Hertz | | | | | | | | Safe Stall Time Hot | 25 s |
| | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz | Safe Stall Time Cold | 35 s |
| SPL@3 | 58.0 | 61.0 | 61.0 | 59.0 | 56.0 | 41.0 | dB(A) | Frame material | cast iron |
| Moment of inertia | 58.1 Lb-ft ² | | | | | | | Color, paint shade | Standard Paint - RAL7030 |
| Ext Load Inertia Capability: | 145.0 Lb ft ² | | | | | | | Coating (paint finish) | Standard Alkyed + Epoxy (C2) |
| Bearings | | | | | | | | Ventilation Type | |
| Bearing DE NDE | 6316 Z C3 S0 | | | 6216 ZZ C3 S0 | | | | Method of cooling | TEFC |
| Bearing_Type | Ball Bearing | | | Ball Bearing | | | | Direction of rotation | Bidirectional |
| AFBMA: | 80BC03JP30 | | | 80BC02JPP30 | | | | Fan Material | Polypropylen ESD |
| Grease | | | | | | | | VFD | CT: 4:1 VT: 20:1 |
| Capacity | 7.5 oz | | | 6 oz | | | | Space heaters | without |
| Grease Type: | Exxon Mobile EM | | | | | | | Brake: | without |

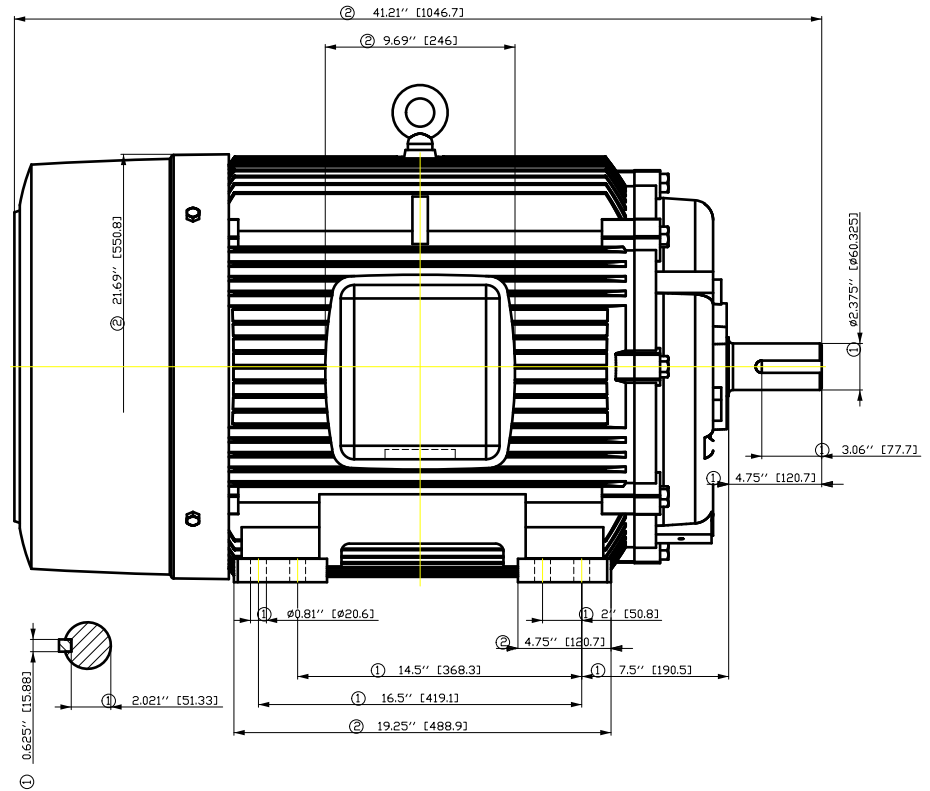
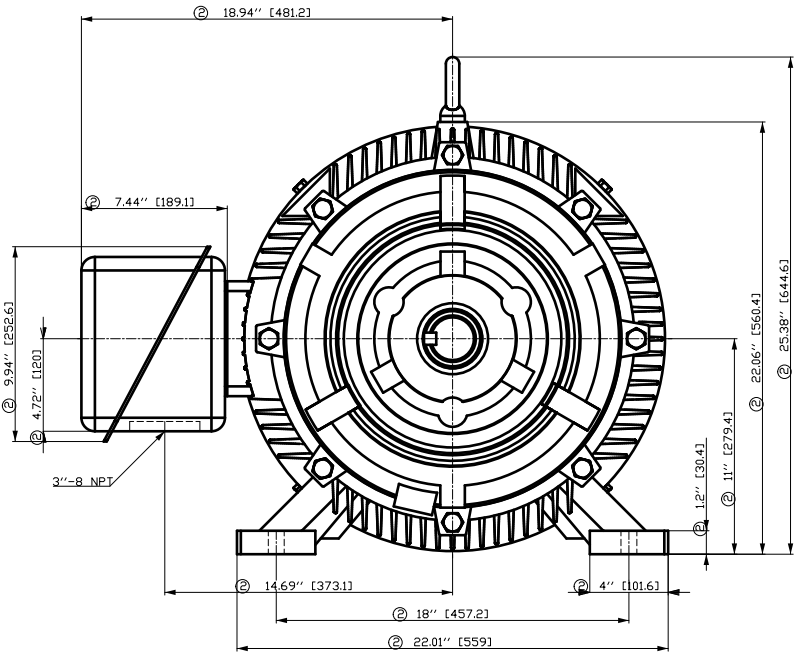
Terminal box

| | | | | | | |
|----------------------|----------------|------|------|--------------------|--------------------------|---|
| Lead Wire Connection | 6 LEAD - DELTA | | | | 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 _L /I _N = locked rotor current / current nominal | | 3) Value is valid only for DOL operation with motor design IC411 | | | |
| M _L /M _N = locked rotor torque / torque nominal | | 2) at rated power / at full load | | | |
| M _B /M _N = break down torque / nominal torque | | | | | |

| | | | | | |
|------------------|---------------------|-----------------|-------------|--|--|
| responsible dep. | technical reference | created by | approved by | <i>Technical data are subject to change! There may be discrepancies between software and hardware versions</i> | |
| DI MC LVM | | DT Configurator | | | |

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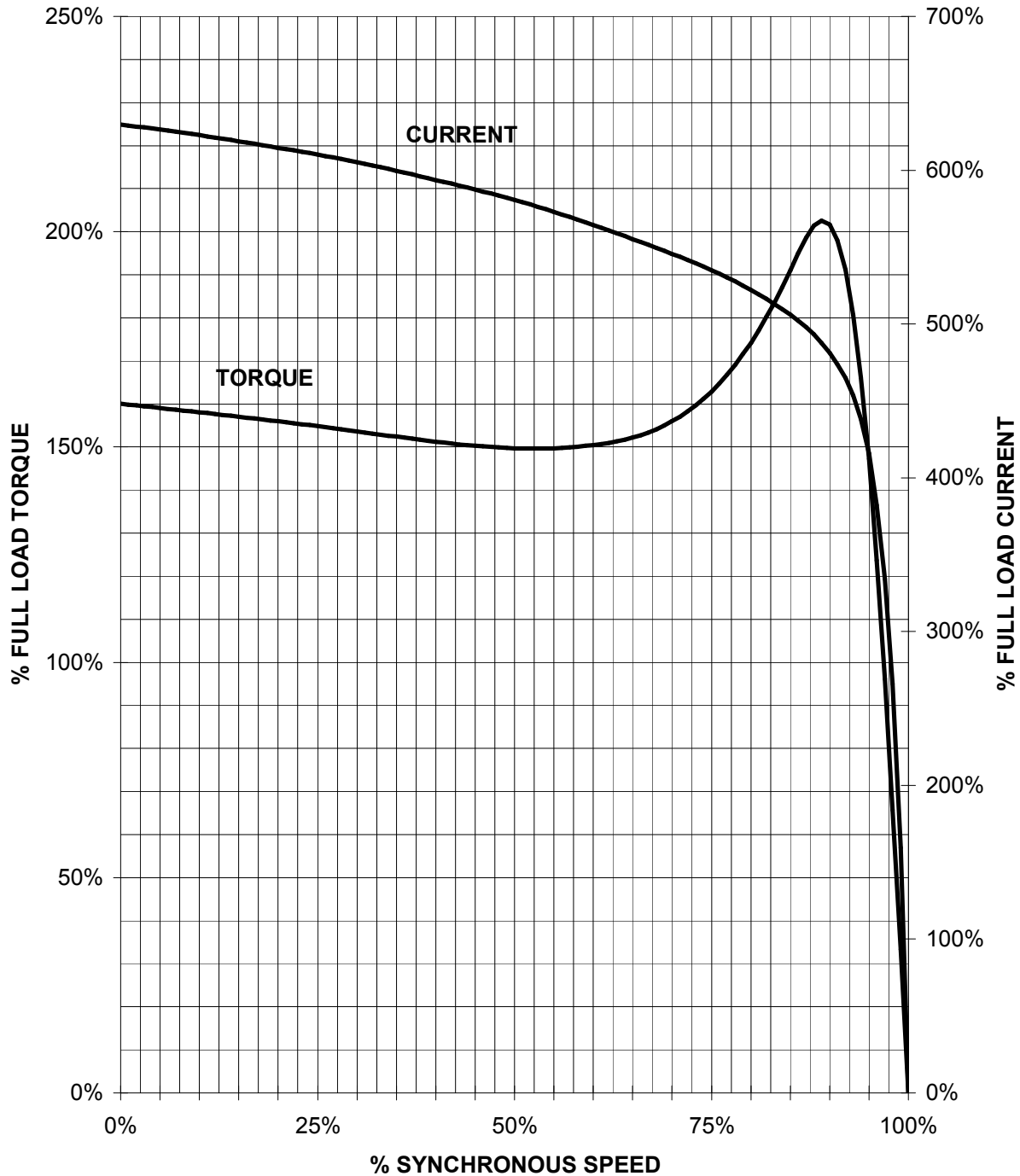
- ① Tolerances according to NEMA std.
- ② All these dimensions corresponding to assemblies and castings shall have a tolerance as per DIN standard 1686-GTB 19.
- ③ Not according to NEMA std.

| Tolerance | Surface | Material | Weight | Scale |
|-------------------|--------------|--------------------|------------|-----------------|
| F50G3F8 OÖGF800H | Author | ÖV8 Tæ: ^æ@` }* | E | |
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| | | | Sheet | F of F |

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HP 125 VOLTS < 600V RPM 1200 TYPE GP100
HZ 60 PHASE 3 FRAME 445TS NEMA B

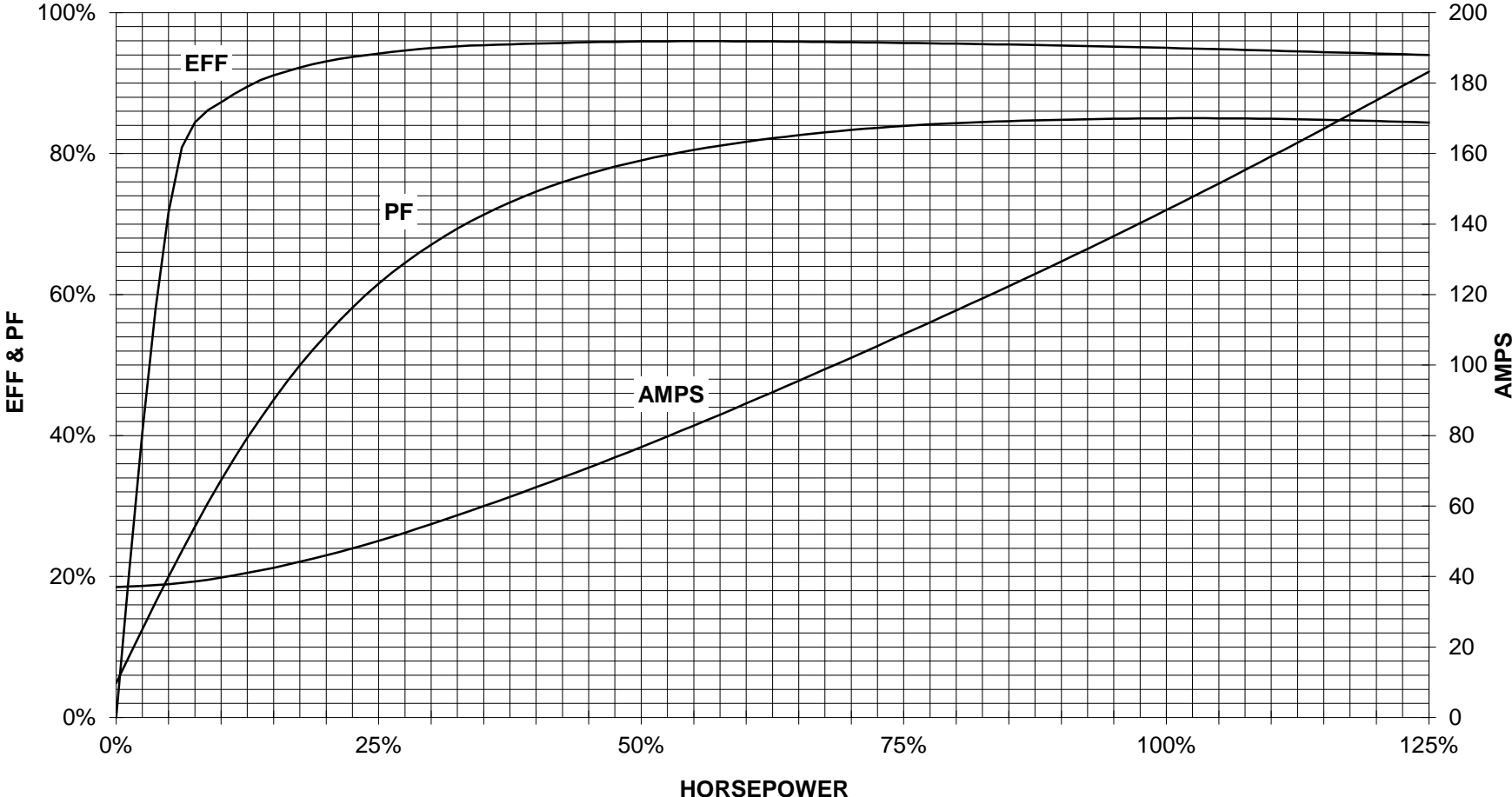
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

125 HP 1200 RPM 445TS FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

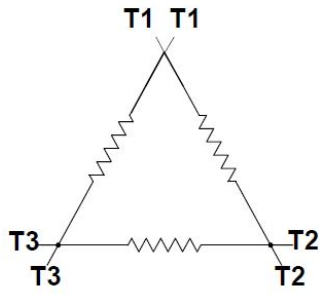
SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
GP100



CUSTOMER _____ ORDER # _____ PO # _____

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

Main terminal diagram



| 6 LEAD DELTA | | | |
|--------------|----|----|-------|
| LINES | | | CONN. |
| L1 | L2 | L3 | |
| T1 | T2 | T3 | Δ |

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Wiring Diagram

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