

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

Motor type: **SD100 IEEE** FS: **215T - 6p - 5 hp -**

| | | |
|------------------|-----------------|-----------|
| Client order no. | Item-No. | Offer no. |
| Order no. | Consignment no. | Project |

Remarks

Electrical data

Class I Division 2 Gr. A, B, C or D, T3

| 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 | |

| | | | | | |
|------------------|--|---------------------------------------|-------------------------------------|--------------|------------|
| Frame Type: 215T | 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: 191 | | Temp. Rise Cl.: B | Amb. Temp.: + 40 to -20 °C @1000 m | kVA: J | IP 55 |

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 | cast iron |
| 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 Z C3 S0 | | | 6208 Z C3 S0 | | | | Method of cooling | TEFC |
| Bearing_Type | Ball Bearing | | | Ball Bearing | | | | Direction of rotation | Bidirectional |
| AFBMA: | 40BC02JP30 | | | 40BC02JP30 | | | | Fan Material | Polypropylen ESD |
| 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 | 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 | Cast Iron |
| ---- | ---- | ---- | ---- | ---- | Cable entry | 1" NPT |
| ---- | T1 | T2 | T3 | ---- | | |

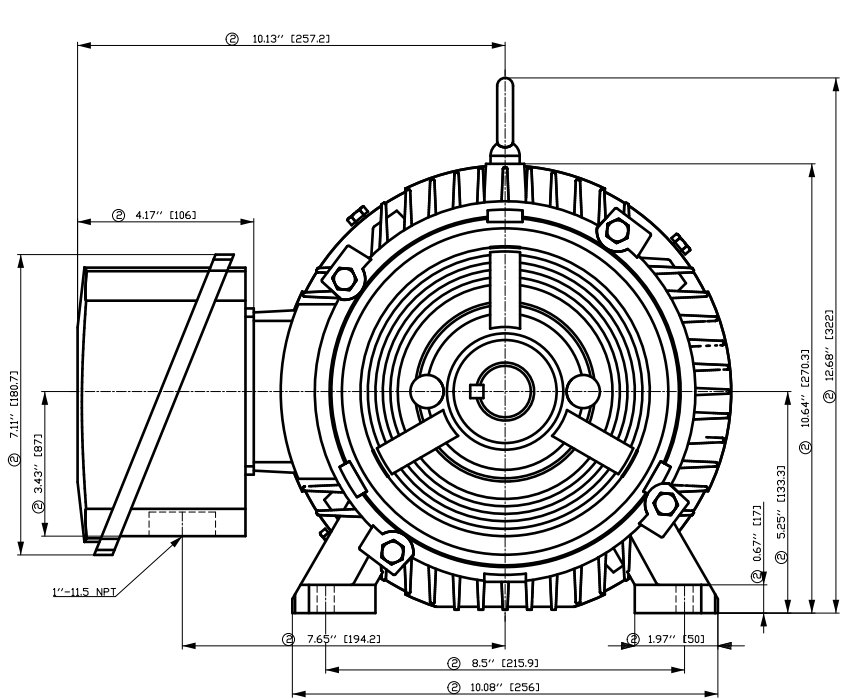
Notes:

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

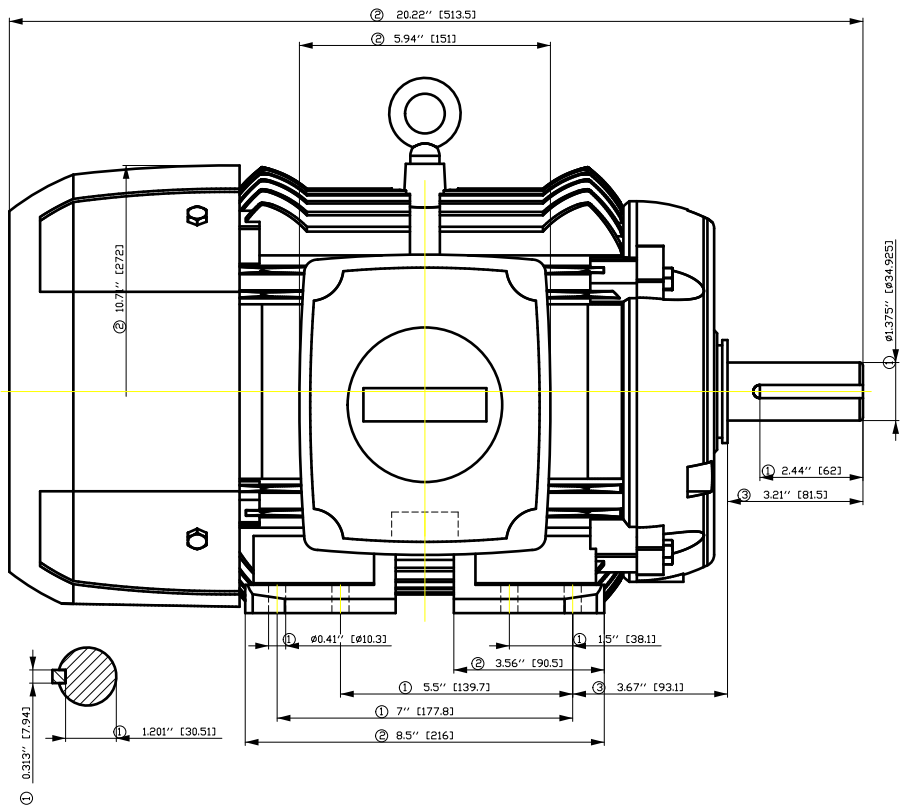
3) Value is valid only for DOL operation with motor design IC411
2) at rated power / at full load

| | | | | |
|-------------------------------|---------------------|-------------------------------|-------------|--|
| 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> |
|-------------------------------|---------------------|-------------------------------|-------------|--|

| | | | | |
|--|-----------------------------|-----------------------------------|----------------|-------------|
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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.



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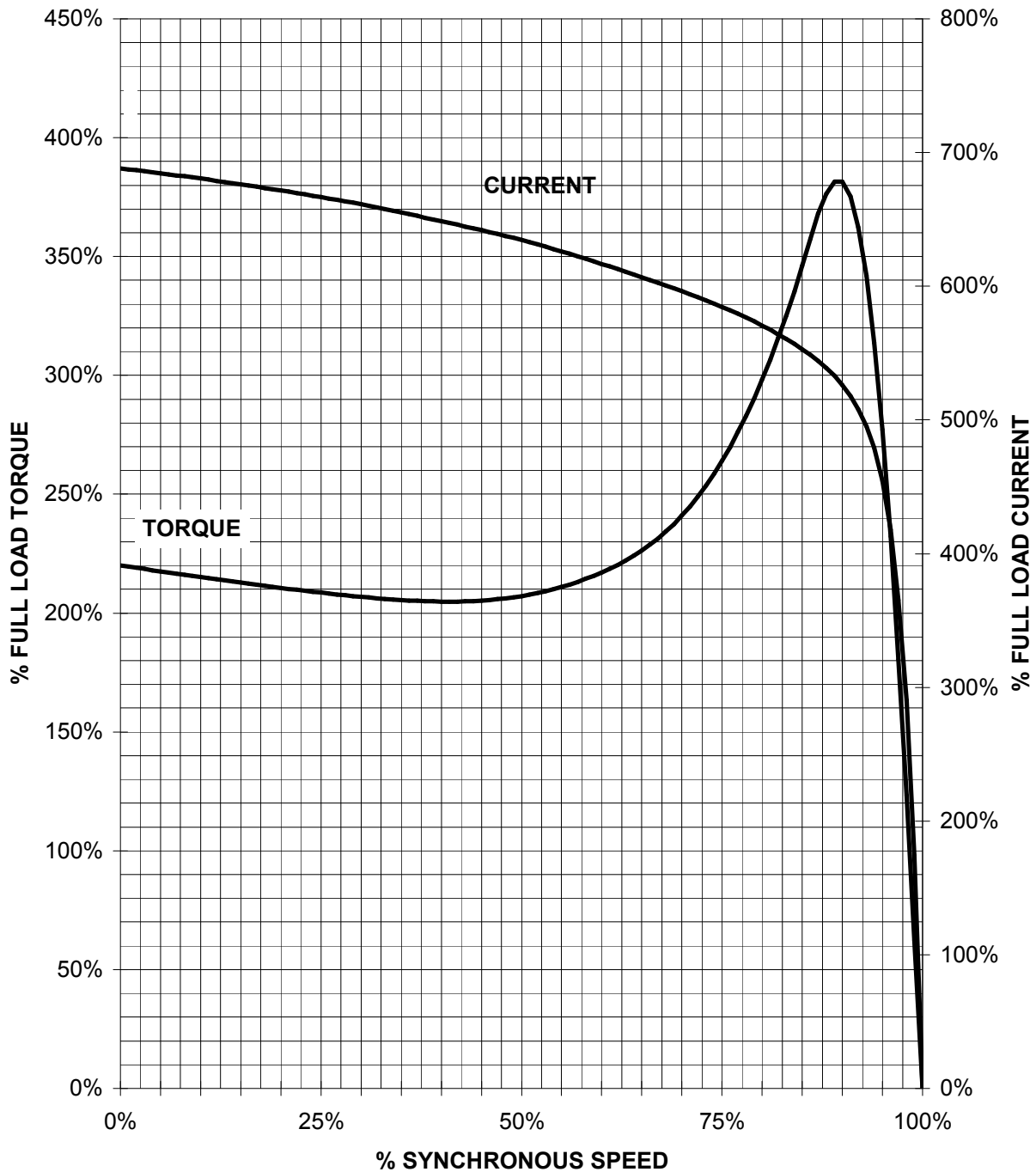
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 2. 凡在圖中標註的尺寸，均指其公稱尺寸，其公差按 DIN 1686-GTB 19 標準執行。
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| Tolerance | Surface | Material | Weight | Scale |
|-------------------|--------------|----------|--------------|--------|
| F50G GF00GF000H | Author | ÖS | É | |
| É | Creator | | | |
| | Approval | | | |
| | Department | | | |
| | Change Order | | | |
| SIEMENS | Doc. State | MFB | Doc. Type | |
| | Revision | Item No | Paper Size | |
| | Index | Doc No | 1st Language | |
| © Siemens AG 2018 | Project No | Ref No | 2nd Language | |
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SIEMENS INDUSTRY, INC.

HP 5 VOLTS < 600V RPM 1200 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME 215T NEMA B

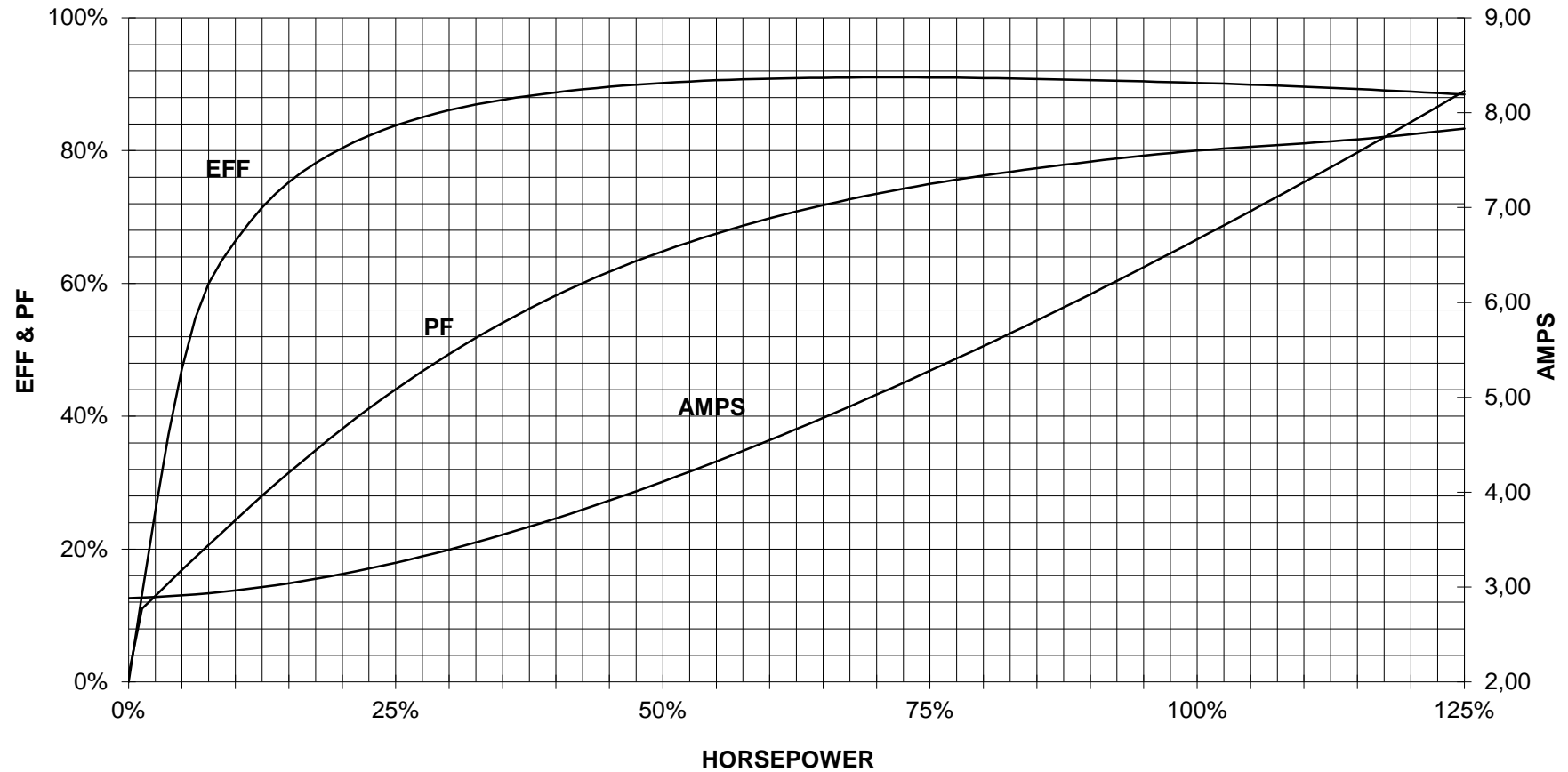
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

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

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD100 IEEE841



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

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document type
Wiring Diagram

title
1LE2421-2AC21-2AA3

document status

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