

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

Motor type: SD100 IE3E **FS: 215T - 4p - 10 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 | 10.00 | 7.50 | 1,800 | 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 | |
| Frame Type: 215T | | Type of constr.: (G) Round body - C-Face | | | | Ins. Cl.: Standard Class F Insulation | | Motor Prot.: (A) Without Protection | | | NEMA Des.: B | | S.F.: 1.15 | | | | | | | |
| Mtr. WT: 180 | | | | | | Temp. Rise Cl.: B | | Amb. Temp.: + 40 to -20 °C @1000 m | | | kVA: H | | IP 55 | | | | | | | |

Mechanical data

| | | | | | | | | | |
|--------------------------------------|-------------------------|------|-------------------------|------------------------------|------------------|------|-------|----------------------|-----------|
| Sound level (SPL / SWL) at 60 Hz | 57.0 dB(A) / 69.0 dB(A) | | Thickener | Polyurea | | | | | |
| Octave Band Center Frequencies Hertz | | | Safe Stall Time Hot | 20 s | | | | | |
| | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Hz | Safe Stall Time Cold | 36 s |
| SPL@3 | 37.0 | 44.0 | 54.0 | 53.0 | 44.0 | 35.0 | dB(A) | Frame material | cast iron |
| Moment of inertia | 0.9 Lb-ft ² | | Color, paint shade | Standard Paint - RAL7030 | | | | | |
| Ext Load Inertia Capability: | 51.0 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: 20:1 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

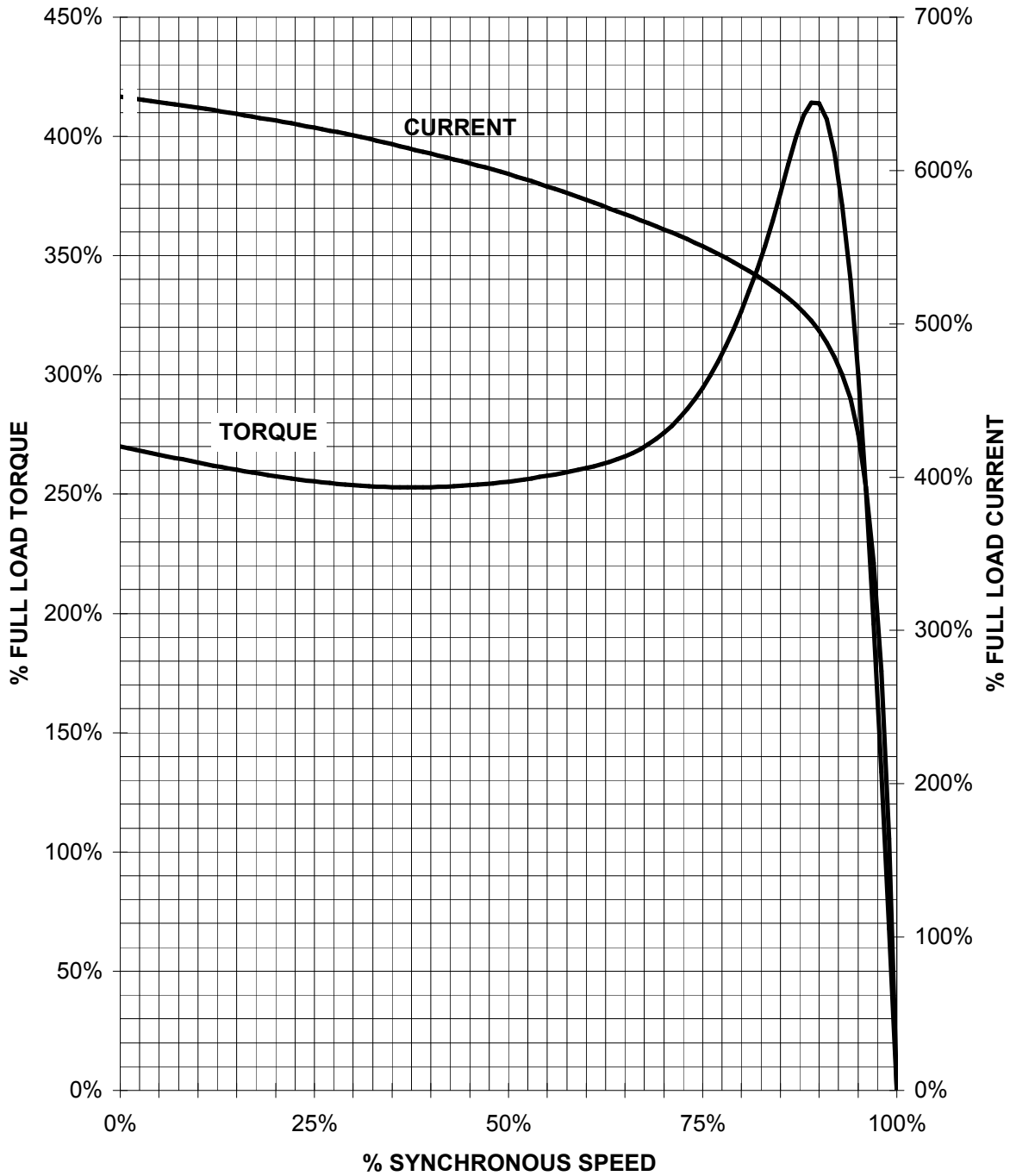
3) Value is valid only for DOL operation with motor design IC411
2) at rated power I at full load

| | | | | | |
|--|-----------------------------|-----------------------------------|----------------|--|--|
| 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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SIEMENS INDUSTRY, INC.

HP 10 VOLTS < 600V RPM 1800 TYPE SD100 IEEE841
HZ 60 PHASE 3 FRAME 215T NEMA B

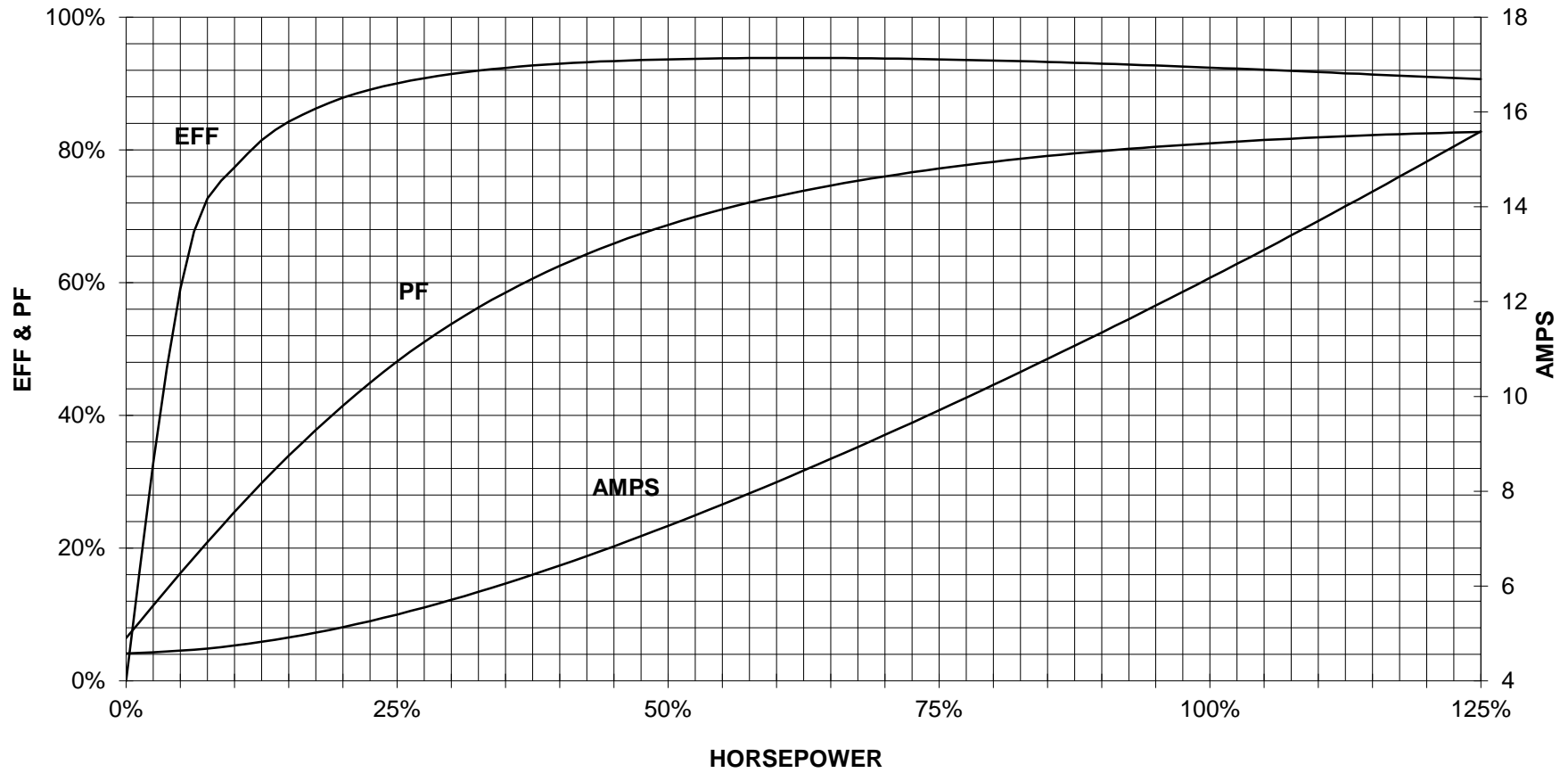
TORQUE & CURRENT VS. SPEED



CUSTOMER: _____ ORDER#: _____

10 HP 1800 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 |
| SIEMENS | document type Wiring Diagram | document status free | | customer |
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