

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

Motor type: SD200 NEMA Premium Next Generation **FS: R444T - 4p - 125 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 Class II**
Division 2 Gr. F or G T3C

| 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 | Δ | 60 | 125.00 | 93.25 | 1,785 | 123.2 | 96.70 | 74.20 | 50.40 | 725.6 | 95.4 | 95.6 | 95.2 | 80.0 | 76.0 | 66.3 | 366.0 | 200 | 280 | |

| | | | | | |
|-------------------|---|---------------------------------------|---------------------------------------|--------------|------------|
| Frame Type: R444T | Type of constr.: (A) Foot Mounted Horizontal (IMB3) | Ins. Cl.: Standard Class H Insulation | Motor Prot.: A: No Winding Protection | NEMA Des.: B | S.F.: 1.15 |
| Mtr. WT: 1,502 | | Temp. Rise Cl.: B | Amb. Temp.: + 40 to °C @ 1000 m | kVA: G | IP 55 |


Mechanical data

| | | | | | | | | | |
|--------------------------------------|--------------------------|------------------------|------------------------------|-------------------------|-------------------|------|----------------------|----------------|-----------|
| Sound level (SPL / SWL) at 60 Hz | 77.0 dB(A) / 88.0 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 | 25 s | |
| SPL@3 | 63.0 | 70.0 | 73.0 | 70.0 | 62.0 | 55.0 | dB(A) | Frame material | Cast iron |
| Moment of inertia | 37.7 Lb-ft ² | Color, paint shade | RAL 7030 | | | | | | |
| Ext Load Inertia Capability: | 542.0 Lb ft ² | Coating (paint finish) | Standard Alkyed + Epoxy (C2) | | | | | | |
| Bearings | | | | Ventilation Type | | | | | |
| Bearing DE NDE | NU320 | 6315 Z C3 S0 | | Method of cooling | TEFC | | | | |
| Bearing_Type | Roller Bearing | Ball Bearing | | Direction of rotation | Bi-Directional | | | | |
| AFBMA: | 100RU03M0 | 75BC03JP3 | | Fan Material | Polypropylene ESD | | | | |
| Grease | | | | VFD | CT: 4:1 VT: 20:1 | | | | |
| Capacity | 23 oz | 15 oz | | Space heaters | without | | | | |
| Grease Type: | Exxon Mobil EM | | | Brake: | -/- | | | | |

Terminal box

| | | | | | | | |
|----------------------|-------------------------------|-----|-----|--------------------|----------|--------------------------|--|
| Lead Wire Connection | 3 TERMINAL - Connection DELTA | | | | | Terminal box position | (1) LHS Mount - View From DE (F-1) - DE or Center of Motor |
| Voltage | L1 | L1 | L1 | Connected together | | Material of terminal box | Cast Iron |
| --- | --- | --- | --- | --- | - | Cable entry | (1) 3" NPT |
| RUN | T1 | T2 | T3 | --- | Δ | | |

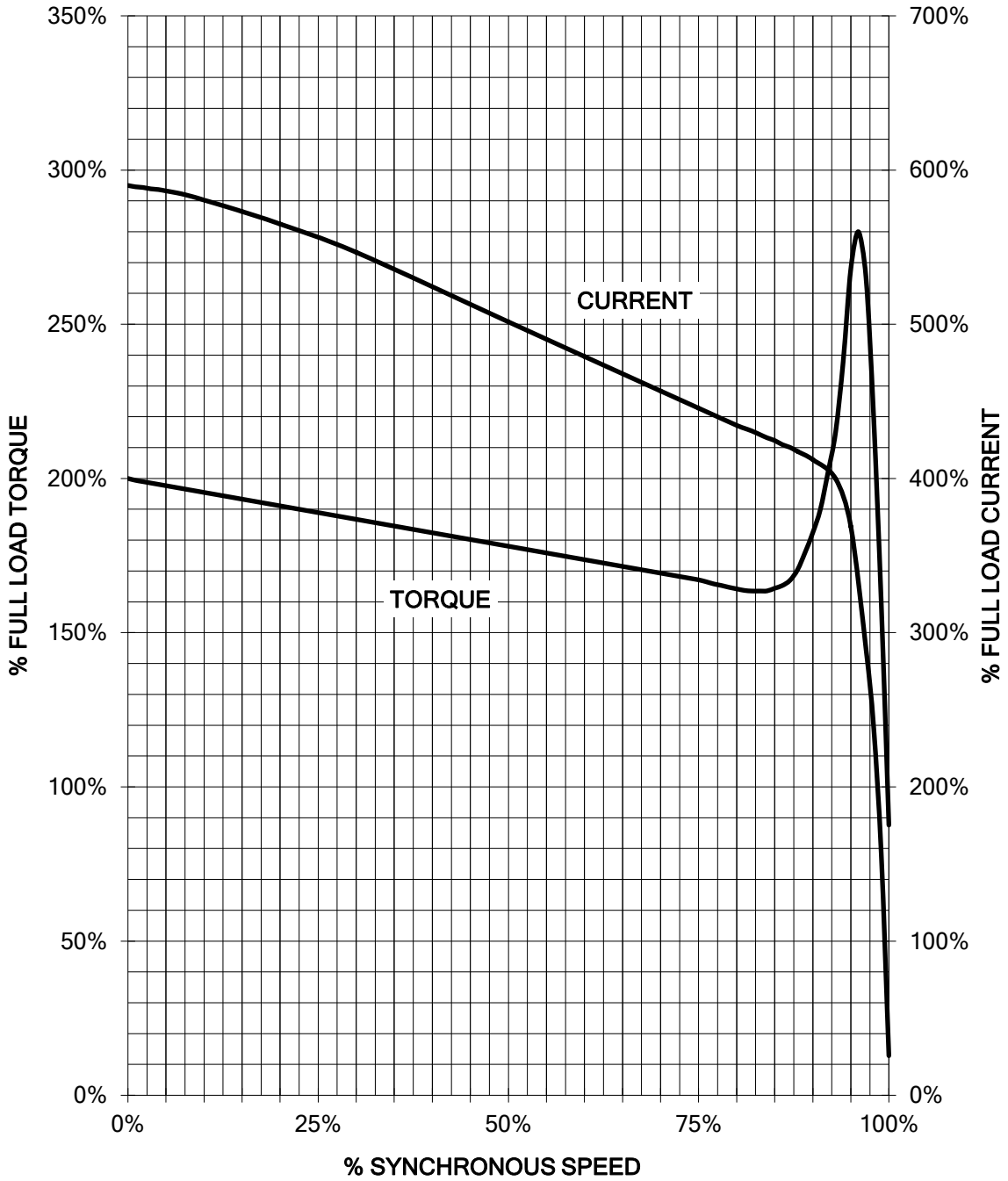
Notes:
 I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_d/M_N = break down torque / nominal torque
 3) Value is valid only for DOL operation with motor design IC411
 2) at rated power / at full load

| | | | | | | | |
|--|-----------------------------|-----------------------------------|----------------|--|--|--|--|
| 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 1LE6321-4SB11-3AA1 | document number | | | | | |
| © Siemens AG 2022 | rev. 01 | creation date 2022-04-09 01:19 | language en | Page 1/1 | | | |

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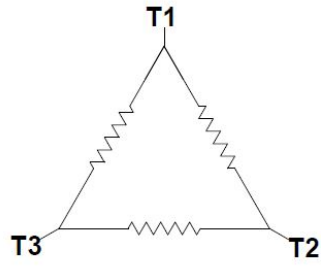
HP 125 VOLTS 460 RPM 1785 TYPE SD200
HZ 60 PHASE 3 FRAME 444T NEMA B

TORQUE & CURRENT VS. SPEED




Unrestricted CUSTOMER: _____ ORDER#: _____

Main terminal diagram

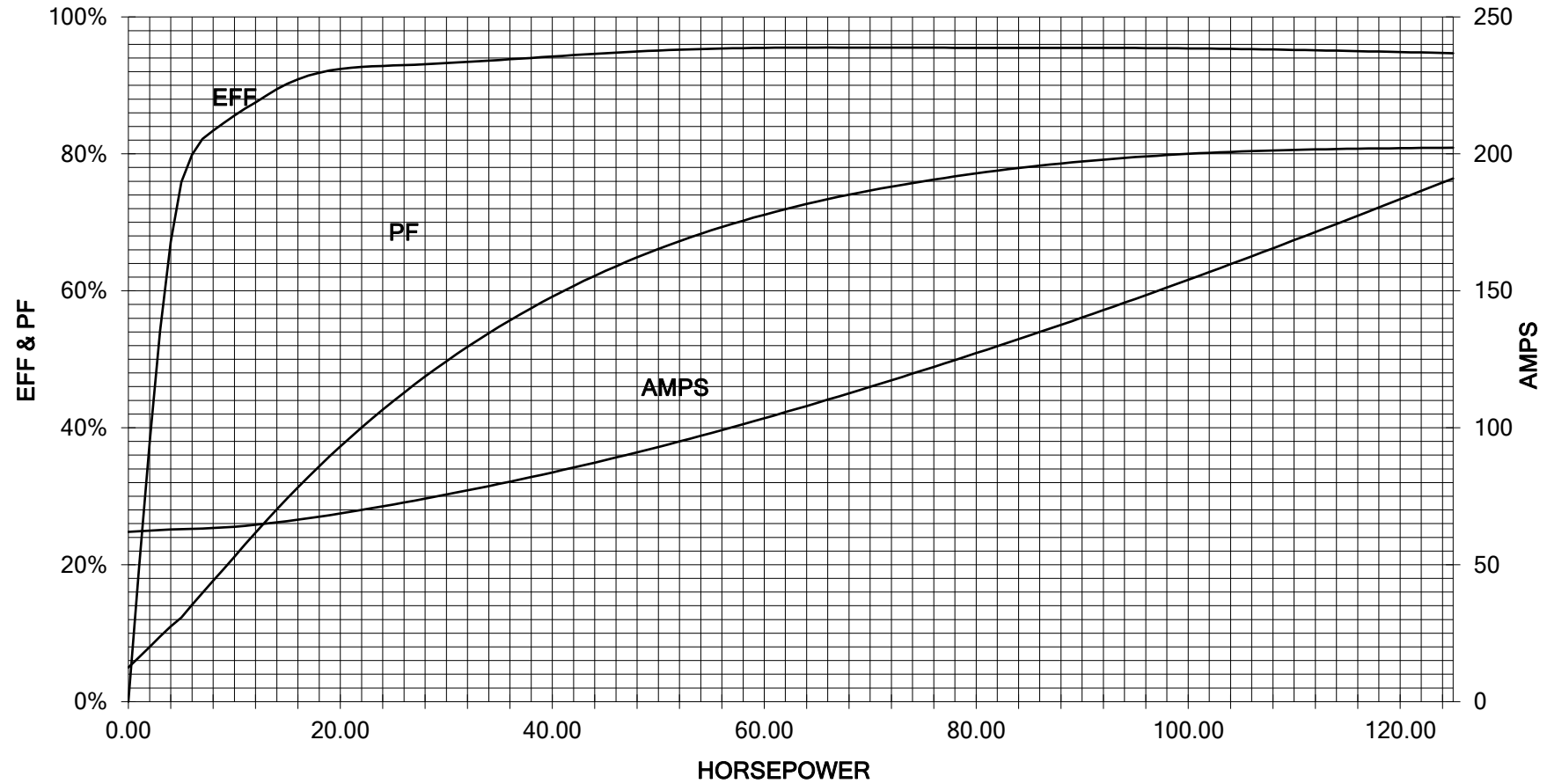


| 3 LEAD DELTA | | | |
|--------------|----|----|-------|
| LINES | | | CONN. |
| L1 | L2 | L3 | |
| T1 | T2 | T3 | Δ |

| | | | | | | |
|--|---------------------------------|------------|-------------------------|-----------------------------|----------------|-------------|
| responsible dep. DI MC LVM | technical reference | created by | approved by | Project | | |
|  | document type Wiring Diagram | | document status free | | customer | |
| | title 1LE6321-4SB11-3AA1 | | document number | | | |
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125 HP 1800 RPM 444T FRAME 460 VOLTS 3 PHASE NEMA DESIGN B

SIEMENS INDUSTRY, INC.
PERFORMANCE CURVE
SD200



Unrestricted CUSTOMER _____ ORDER # _____ PO # _____

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

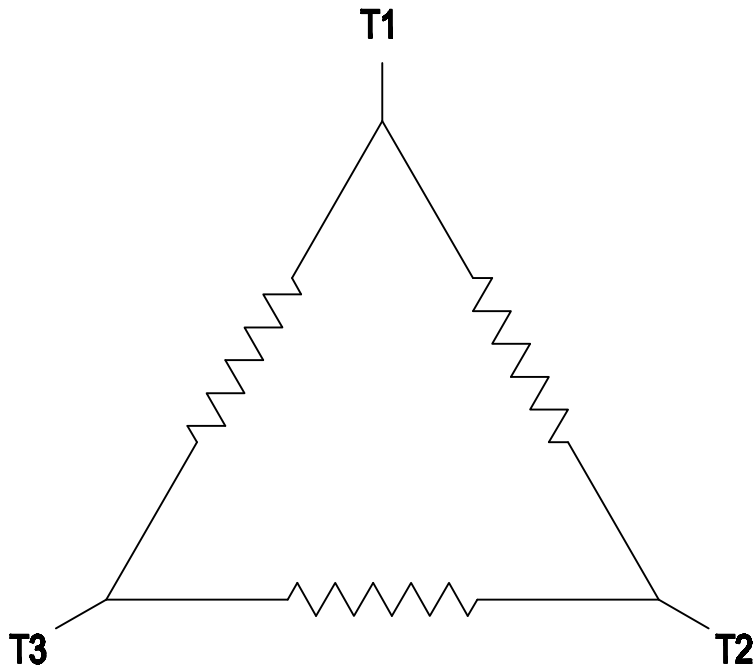
REV. 1

2

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3 PHASE - 3 LEADS - DELTA

| | | | |
|----|----|----|-------|
| L1 | L2 | L3 | CONN. |
| T1 | T2 | T3 | △ |



B

B

A

A

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01 | 09-27-07

TYPE

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Industrial Motor Division - Little Rock, AR

FRAME

HP

NAME

WIRING DIAGRAM

VOLTS

RPM

HZ

PH

3

Customer

PO #

SO #

| | | | |
|---------|---------|------|-----|
| DRAWN | 9.24.07 | DATE | JRH |
| CHECKED | | DATE | |
| APP | | DATE | |

SHEET
1 OF 1

Sim. To

PART NO.

51-382-114-504

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