

PRODUCT INFORMATION PACKET



Model No: 811652.00
Catalog No: 811652.00
10 HP Severe Duty Motor, 3 phase, 1200 RPM, 460 V, 256T Frame, TEFC
Severe Duty Motors



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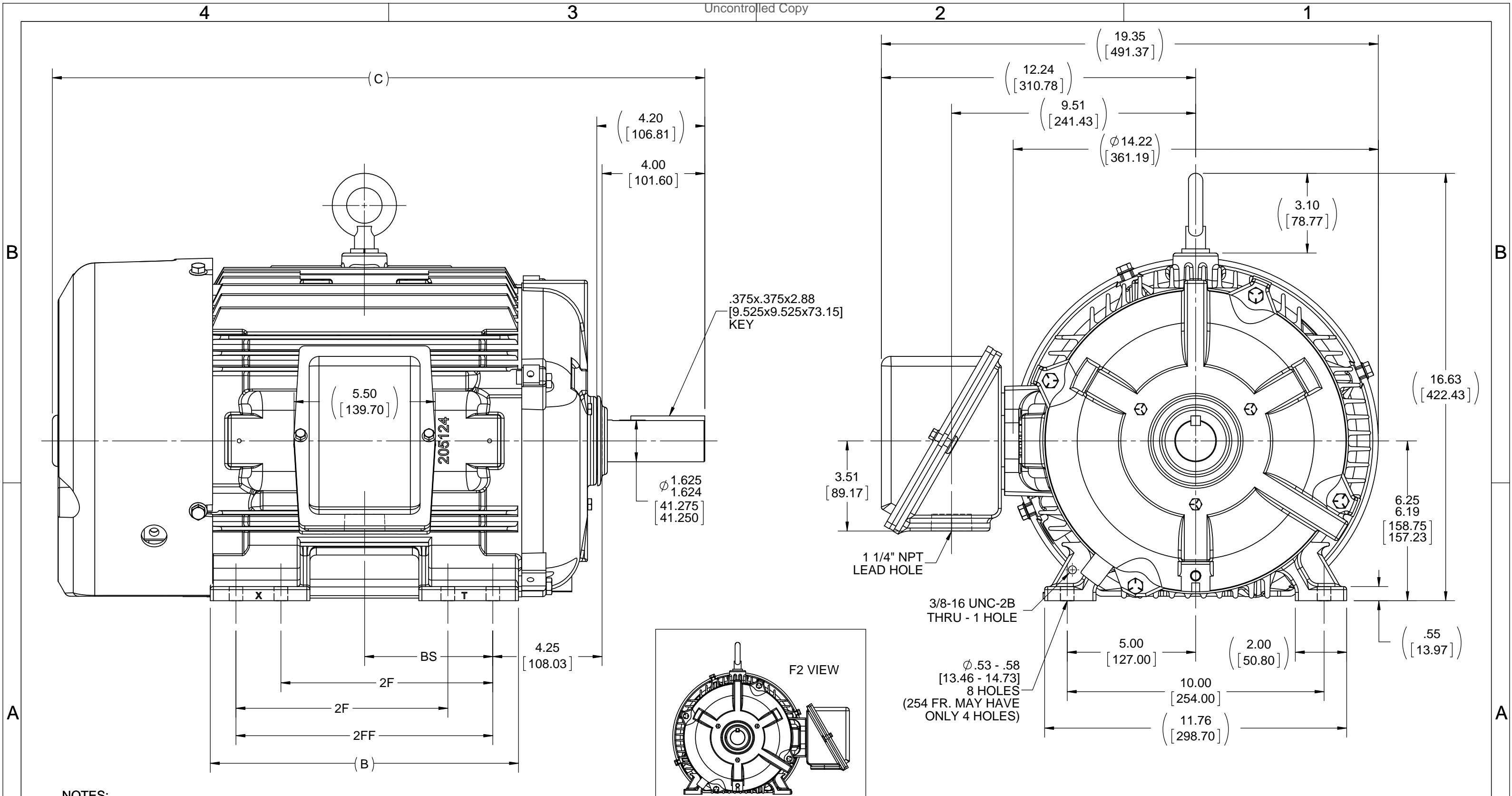
Nameplate Specifications

| | | | |
|------------------------|-------------------|----------------------------|------------------------------------|
| Output HP | 10 Hp | Output KW | 7.5 kW |
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 13.1 A | Speed | 1176 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 91 % | Power Factor | 79 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | H |
| Frame | 256T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6309 | Opp Drive End Bearing Size | 6210 |
| UL | Recognized | CSA | Y |
| CE | N | IP Code | 56 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 6 | Rotation | Reversible |
| Resistance Main | .934 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | T | Overall Length | 25.40 in |
| Frame Length | 12.25 in | Shaft Diameter | 1.625 in |
| Shaft Extension | 4 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Outline Drawing | B-SS203002-1225 | Connection Drawing | A-EE7300 |

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- NOTES:
 1. CONDUIT BOX CAN BE ROTATED ON ITS AXIS.
 2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

| | | | | | | |
|------|----------|-------------------|-------------------|------------------|-------------------|------------------|
| 1050 | 254T | 23.65 [600.71] | 10.25 [260.35] | --- | 8.25 [209.55] | 4.25 [107.95] |
| 1225 | 254/256T | 25.40 [645.16] | 12.00 [304.80] | 8.25 [209.55] | 10.00 [254.00] | 5.00 [127.00] |
| DASH | FRAME | C | B | 2F | 2FF | BS |
| | | 4 | | | | |

| | | |
|---|----------------------------|--------------------|
| DRAWING REVISION E | REVISION BY M GERTSCHEN | DATE 11-17-2016 |
| ECO ECO-0112972 | APPROVED BY T VUE | DATE 11-17-2016 |
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

| DEC. | INCH | mm | ANGLE |
|-------|---------|-----------|---------|
| .X | ±0.1 | [±2.5] | ±7° 30" |
| .XX | ±0.03 | [±0.76] | |
| .XXX | ±0.005 | [±0.127] | |
| .XXXX | ±0.0005 | [±0.0127] | |

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°
 CORNER FILLETS: R.02 [51]
 MACHINED SURFACES: 200 INCH 5.1 mm SHOWN IN [BRACKETS]

| | |
|------------------------|--------------------|
| DRAWN BY TVUE | DATE 12-18-2013 |
| APPROVED BY TBROWN | DATE 12-18-2013 |
| REFERENCE | |
| THIRD ANGLE PROJECTION | |

| | |
|---|---|
| REGAL ™ Regal Beloit America, Inc. | |
| DESCRIPTION | OUTLINE 250T FR. - TEFC - BB - STD. |
| MATERIAL | PROCESS/FINISH |
| SIZE B | DRAWING NUMBER SS203002 |
| | SHEET 1 OF 1 |

**THREE PHASE - SINGLE VOLTAGE
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.**

TERMINAL BLOCK WHEN SPECIFIED



VIEW OF TERMINAL END

**IF MOTOR HAS
6 LEADS**



A-9806 DECAL

**OPTIONAL CORD
CONNECTION**



| | | |
|---|--------------------|--------------------|
| DRAWING REVISION AB | REVISION BY JJB | DATE 06-27-2017 |
| ECO ECO-0125361 | APPROVED BY TB | DATE 06-27-2017 |
| ECO DESCRIPTION UPDATED TO CURRENT STANDARDS | | |
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| |
|---------------------------|
| DRAWN BY DA |
| DATE 03-26-1993 |
| APPROVED BY TB |
| DATE 03-26-1993 |
| REFERENCE |
| THIRD ANGLE PROJECTION |

| | |
|--|---------------------------------|
| Regal Beloit America, Inc. | |
| DESCRIPTION CONNECTION DIAGRAM EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR | |
| MATERIAL | PROCESS/FINISH |
| SIZE A | DRAWING NUMBER EE7300 |
| SHEET 1 OF 1 | |

P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300
 OUTLINE: B-SS203002-1225
 WINDING: 256674

CAT #: 811652.00

NONE 7

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|----|-----|----------|--------|-------|-----------|------|----------|--------|
| 10 | 7.5 | 1200 | 1176 | 256T | TEFC | TFN | H | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|----|----|-------|------|------------------|------|------|------|-----|-------|
| 3 | 60 | 460 | 13.1 | LINE OR INVERTER | CONT | F | 1.15 | 40 | 3300 |

| F.L. EFF | 91.0 | 3/4 LD EFF | 91.0 | 1/2 LD EFF | 90.2 | GTD EFF | ELECT. TYPE |
|----------|------|------------|------|------------|------|---------|-------------------|
| F.L. PF | 79.0 | 3/4 LD PF | 72.5 | 1/2 LD PF | 61.0 | 90.2 | SQ CAGE INV RATED |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (°C) |
|-------------|-----------------|-----------------|----------------|----------------|
| 44.7 LB-FT | 81.0 | 92.0 LB-FT 206% | 139 LB-FT 311% | 40 |

| PRESSURE @ 3 | POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|--------------|--------|------------|---------------|-----------------|-------------|-----------|
| 56 dBA | 65 dBA | 3.0 LB-FT² | 225 LB-FT² | 20 SEC. | 2 | 390 LB. |

*** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | MOTOR ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------------|-------------|--------------------|------------|---------|--------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | UM SEVERE | DIVISION 2 T2B | NO | NONE | BLUE (EPOXY) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6309 | 6210 | | | | | | |

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------|------------|-----------|-----------|-------------|---------|---------------|
| NONE | NOT | NONE | NONE | NONE | FALSE | NA |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0.571 | 0.491 | 2.238 | 2.513 | 43.168 | 0.080 | ODE |

| | | |
|---------------------------------|---|--|
| * N O T E S * | INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: NONE | |
| | ENCODER: NONE | |
| | NONE | |
| | NONE | |
| | NONE PPR | |

| | | |
|-----------------------|---------------|------|
| DATE: 2/1/2018 | BRAKE: NONE | |
| | NONE NONE | |
| | FT-LB: NA | NONE |
| | VOLTAGE: NONE | HZ: |
| UL: Y-(LEESON UL REC) | | |

Data Sheet

Date: 2/1/2018

811652.00



Data @ **460 V**

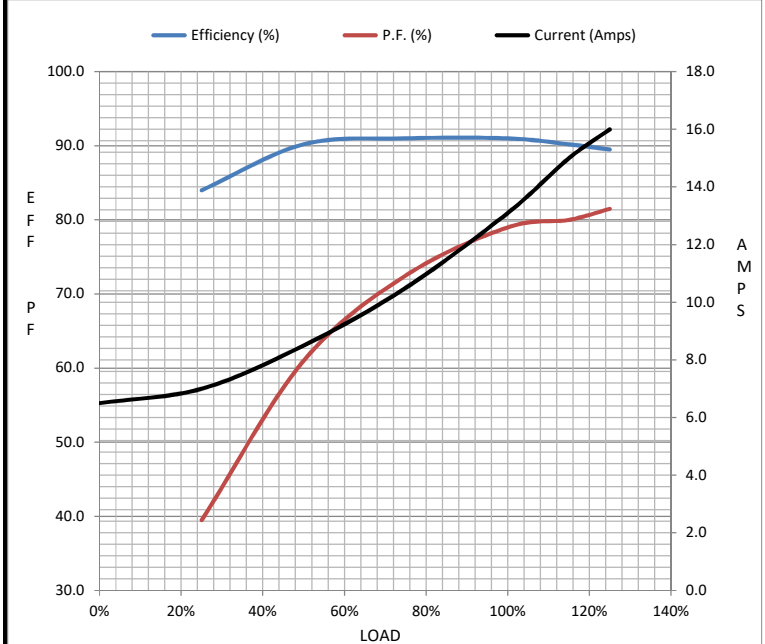
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 6.5 | 7.0 | 8.5 | 10.5 | 13.1 | 15.0 | 16.0 | 81.0 |
| Torque (ft-lb) | 0.00 | 11.0 | 22.0 | 33.5 | 44.7 | 51.0 | 56.0 | 92.0 |
| RPM | 1200 | 1195 | 1190 | 1180 | 1176 | 1,170 | 1165 | 0 |
| Efficiency (%) | | 84.0 | 90.2 | 91.0 | 91.0 | 90.2 | 89.5 | |
| P.F. (%) | 5.5 | 39.5 | 61.0 | 72.5 | 79.0 | 80.0 | 81.5 | 41.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 400 | 1055 | 1176 | 1200 |
| Current (Amps) | 81.0 | 78.0 | 53.5 | 13.1 | 6.5 |
| Torque (ft-lb) | 92.0 | 86.0 | 139 | 44.7 | 0.00 |

| Information Block | | | | |
|-----------------------------|------------------------|--------|--------|---------|
| HP | 10.0 | | | |
| Sync. RPM | 1200 | | | |
| Frame | 256 | | | |
| Enclosure | TEFC | | | |
| Construction | TFN | | | |
| Voltage | 460 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | H | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 40 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 3.0 Lb-Ft ² | | | |
| Ref Wdg | 256674 NONE | | | |
| Sound Pressure @ 1M | 56 dBA | | | |
| VFD Rating | CONSTANT 20:1 | | | |
| Outline Dwg | B-SS203002-1225 | | | |
| Conn. Diag | A-EE7300 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.5710 | 0.4910 | 2.2380 | 2.5130 | 43.1680 |



Speed - Torque Curve

