

PRODUCT INFORMATION PACKET

Model No: 364TSTGS6506

Catalog No: E572

Explosion Proof Motor, 60 HP, 3 Ph, 60 Hz, 230/460 V, 3600 RPM, 364TS Frame, EPFC



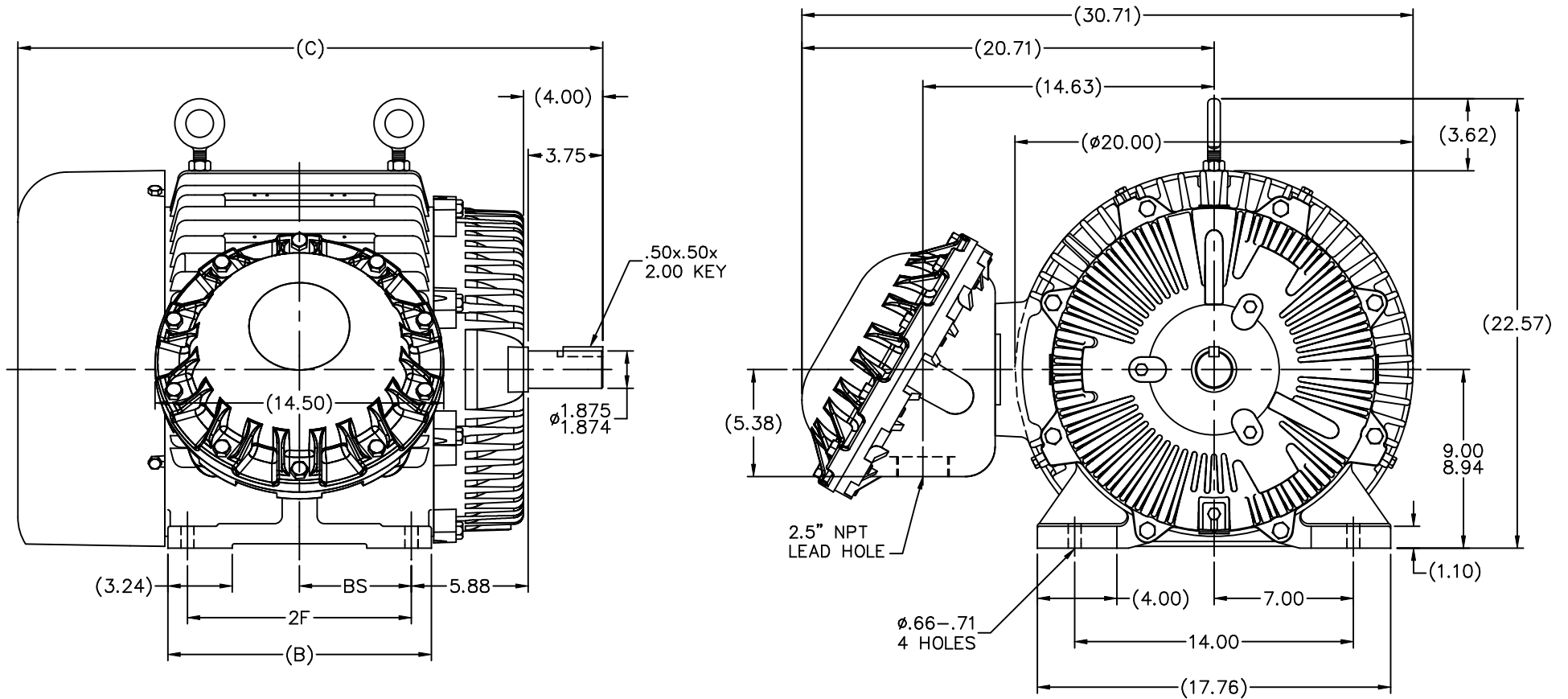
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Nameplate Specifications

| | | | |
|------------------------|---|----------------------------|-----------------------------------|
| Output HP | 60 Hp | Output KW | 45.0 kW |
| Frequency | 60 Hz | Voltage | 230/460 V |
| Current | 134.0/67.0 A | Speed | 3555 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 94.5 % | Power Factor | 88 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 364TS | Enclosure | Explosion Proof Fan cooled |
| Thermal Protection | Thermostat | Ambient Temperature | 50 °C |
| Drive End Bearing Size | 6312 | Opp Drive End Bearing Size | 6312 |
| UL | UL Listed And CSA Certified | CSA | Y |
| CE | N | IP Code | 54 |
| Hazardous Location | DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C | Number of Speeds | 1 |

Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 2 | Rotation | Reversible |
| Resistance Main | .089 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | TS | Overall Length | 29.38 in |
| Frame Length | 13.50 in | Shaft Diameter | 1.875 in |
| Shaft Extension | 4 in | Assembly/Box Mounting | F1 ONLY |
| Outline Drawing | B-SS518623-1350 | Connection Drawing | A-EE7308AD |



NOTES:

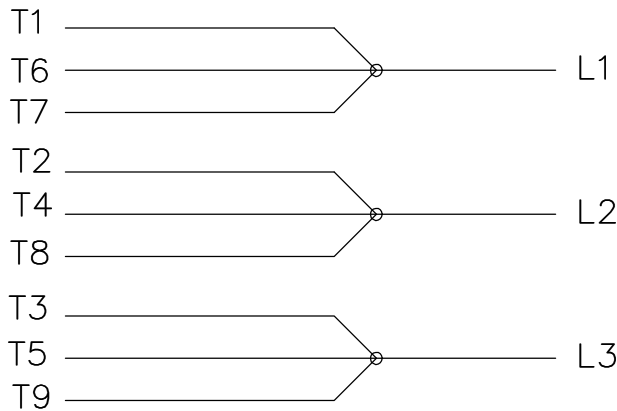
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

(REPLACES B-SS503646)

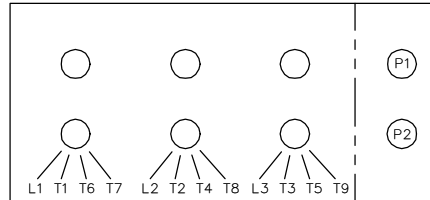
| DASH | FRAME | B | C | 2F | BS |
|------|-------|-------|-------|-------|------|
| 1350 | 364TS | 13.25 | 29.38 | 11.25 | 5.62 |
| 1450 | 365TS | 14.25 | 30.38 | 12.25 | 6.12 |

| | | TOLERANCES UNLESS SPECIFIED | | MARATHON ELECTRIC | | DRAWN KL 07-23-2001 | | | |
|--|--------------------------------------|-----------------------------|---------------|-------------------|--------------|----------------------|----------------|----------------------|-----------|
| | | DEC. | INCHES | | | CHK | DJK 07-23-2001 | | |
| 3 | UPDATE OUTLINE WITH NEW D.E. BRACKET | JJB | 06/21/2007 | ML | .XX ±.03 | TITLE OUTLINE | | | |
| 2 | REDRAWN IN AUTO CAD | TAT | 06-29-2004 | ML | .XXX ±.005 | 360TS FR. - EXP. PR. | | | |
| 1 | NEW DRAWING | MU38273 | KL 07-23-2001 | | .XXXX ±.0005 | MATL | | | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±7'30" | FINISH | PREV | | |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT | | | | | | CAD FILE ss518623 | SIZE B | DRAWING NO. SS518623 | PAGE OF 3 |
| | | | | | | RFP | DIST WA | | |

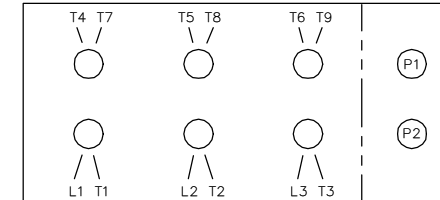
LOW VOLTAGE



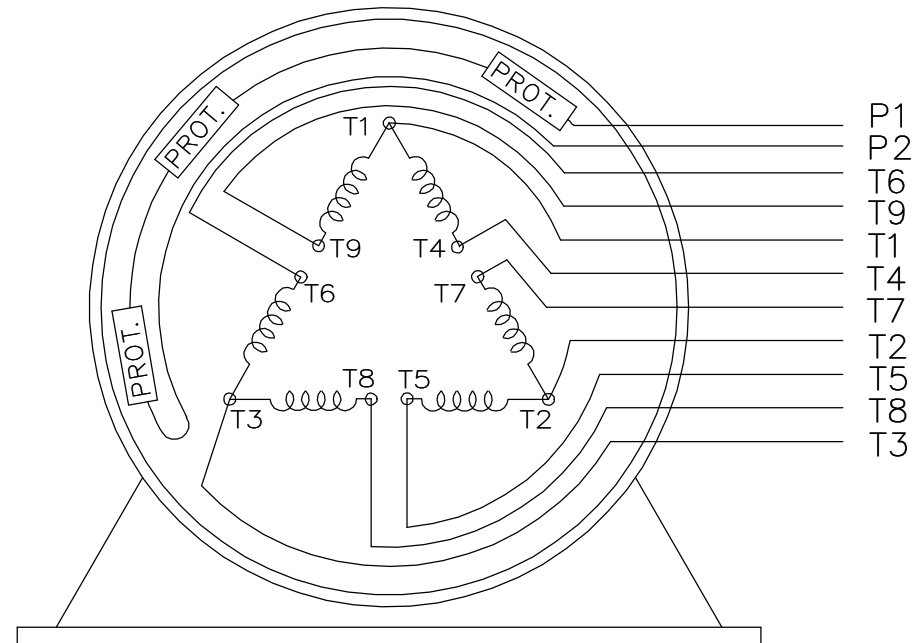
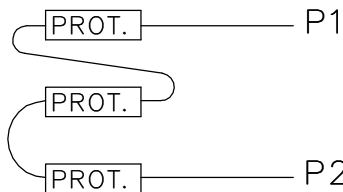
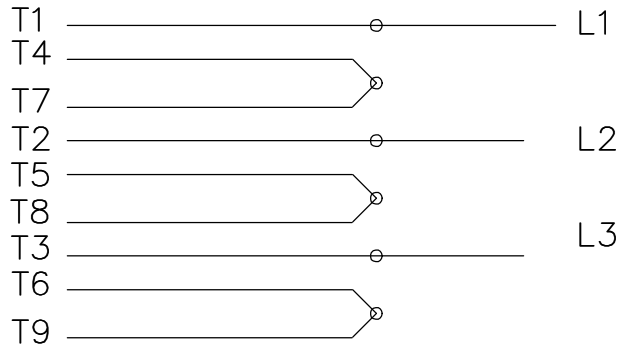
LOW VOLTAGE



HIGH VOLTAGE



HIGH VOLTAGE



VIEW OF TERMINAL END

WHEN MORE THAN ONE PROT. IS USED; PROT. ARE CONNECTED IN SERIES

| | | | | | | | |
|--|--------------------------|--------------------------------------|--|---------------------------|----------------------------|-----------------------------------|------------------------|
| DRAWING REVISION L | REVISION BY JP | REV DATE/© DATE 06-21-2019 | TOLERANCES (EXCEPT AS NOTED): DEC. .X ±0.1 [±3] .XX ±0.02 [±0.5] .XXX ±0.005 [±0.13] .XXXX ±0.0005 [±0.013] REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.08/.38] X 45° CORNER FILLETS: R.02 [.5] MACHINED SURFACES: 200/ 5.1 INCH/mm mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY | DRAWN BY MJD | Regal Beloit America, Inc. | | |
| ECO ECO-0168744 | APPROVED BY MH | DATE 06-21-2019 | | DATE 12-19-1997 | | | |
| ECO DESCRIPTION UPDATED TO CURRENT STANDARDS | | | DESCRIPTION CONN DIAGRAM-EXTERNAL | APPROVED BY GK | MATERIAL | PROCESS/FINISH | |
| COPYRIGHT (PER REVISION DATE) REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS. | | | DATE 01-07-1998 | REFERENCE | SIZE A | DRAWING NUMBER EE7308AD | SHEET 1 OF 1 |

CERTIFICATION DATA SHEET

Model#: 364TSTGS6506 AN **WINDING#:** T364271 NONE 1
CONN. DIAGRAM: A-EE7308AD **ASSEMBLY:** F1 ONLY
OUTLINE: B-SS518623-1350

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|----|-----------|----------|-------|-----------|----------|--------|
| 60 | 45 | 3600 | 3555 | 364TS | EPFC | G | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|---------|---------|---------------------|----------------|------|------|-------|-----------|
| 3 | 60 | 230/460 | 134/67 | LINE OR INVERTER | CONTINUOU S | F1 | 1.15 | 40 | 3300 |

| FULL LOAD EFF: 94.5 | 3/4 LOAD EFF: 94.5 | 1/2 LOAD EFF: 94.1 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---------------------|--------------------|--------------------|----------|-------------------|--------------|
| FULL LOAD PF: 88 | 3/4 LOAD PF: 85.5 | 1/2 LOAD PF: 79 | 94.1 | SQ CAGE INV RATED | 39 / 19.5 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 88.6 LB-FT | 870 / 435 | 140 LB-FT 158 | 265 LB-FT 299 | 70 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|-------------|------------|-----------------|--------------|-------------------|
| 75 dBA | 85 dBA | 7.3 LB-FT^2 | 40 LB-FT^2 | 20 SEC. | 2 | 775 LBS. |

***** SUPPLEMENTAL INFORMATION *****

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|-----------------|------------------|------------|-------------|---------------------|--|------------|---------|--------------|
| STANDARD | STANDARD | RIGID | HORIZONTAL | PREMIUM SEVERE DUTY | EXP PROOF CL I GR C&D CL II GR F&G T3B | FALSE | NONE | BLUE (EPOXY) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE | OPE | | | | | | |
| BALL | BALL | POLYREX EM | TS | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6312 | 6312 | | | | | | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| TSTATS (N/C) | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

If Inverter equals NONE, contact factory for further information

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|-------------------------------|
| INVERTER TORQUE: CONSTANT 2:1 |
| INV. HP SPEED RANGE: NONE |
| ENCODER: NONE |
| NONE NONE |
| NONE NONE PPR |
| BRAKE: NONE NONE |
| NONE P/N NONE |
| NONE NONE |
| - FT-LB NONE V NONE Hz |

DATE: 06/21/2017 07:52:51 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 16-06-2017
Customer: _____
Attention: _____
Submitted by: FAREEDA DUDEKULA



364TSTGS6506

Submittal

Data @ **460 V**

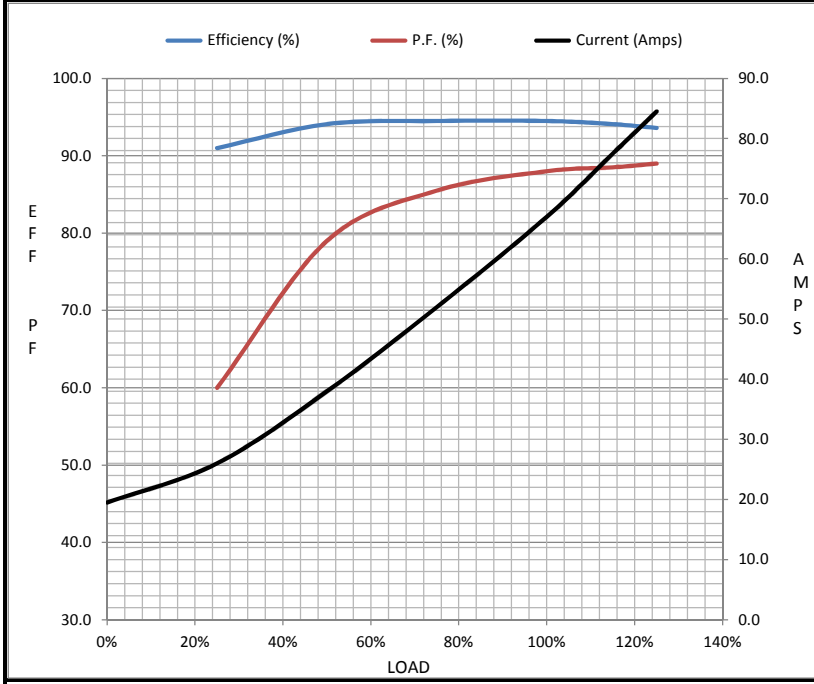
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 19.5 | 26.0 | 38.0 | 52.0 | 67.0 | 77.5 | 84.5 | 435 |
| Torque (ft-lb) | 0.00 | 22.0 | 44.0 | 66.0 | 88.6 | 102 | 111 | 140 |
| RPM | 3600 | 3590 | 3580 | 3570 | 3555 | 3,550 | 3545 | 0 |
| Efficiency (%) | | 91.0 | 94.1 | 94.5 | 94.5 | 94.1 | 93.6 | |
| P.F. (%) | 6.0 | 60.0 | 79.0 | 85.5 | 88.0 | 88.5 | 89.0 | 28.5 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 1800 | 3330 | 3555 | 3600 |
| Current (Amps) | 435 | 392 | 300 | 67.0 | 19.5 |
| Torque (ft-lb) | 140 | 101 | 265 | 88.6 | 0.00 |

| Information Block | | | | |
|-----------------------------|------------------------|--------|--------|---------|
| HP | 60.0 | | | |
| Sync. RPM | 3600 | | | |
| Frame | 364 | | | |
| Enclosure | TEFC | | | |
| Construction | TFS | | | |
| Voltage | 230/460 V | | | |
| Frequency | 60 Hz | | | |
| Design | A | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 70 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 7.3 Lb-Ft ² | | | |
| Ref Wdg | T364271 NONE | | | |
| Sound Pressure @ 1M | 75 dBA | | | |
| VFD Rating | CONSTANT 2:1 | | | |
| Outline Dwg | B-SS518623-1350 | | | |
| Conn. Diag | A-EE7308AD | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0650 | 0.0460 | 0.3980 | 0.3330 | 13.1970 |



Speed - Torque Curve

