

PRODUCT INFORMATION PACKET

Model No: 365THFS9036
Catalog No: W594
75 HP, Severe Duty Motors, 3 phase, 1800 RPM, 460 V, 365T Frame, TEFC
Severe Duty Motors



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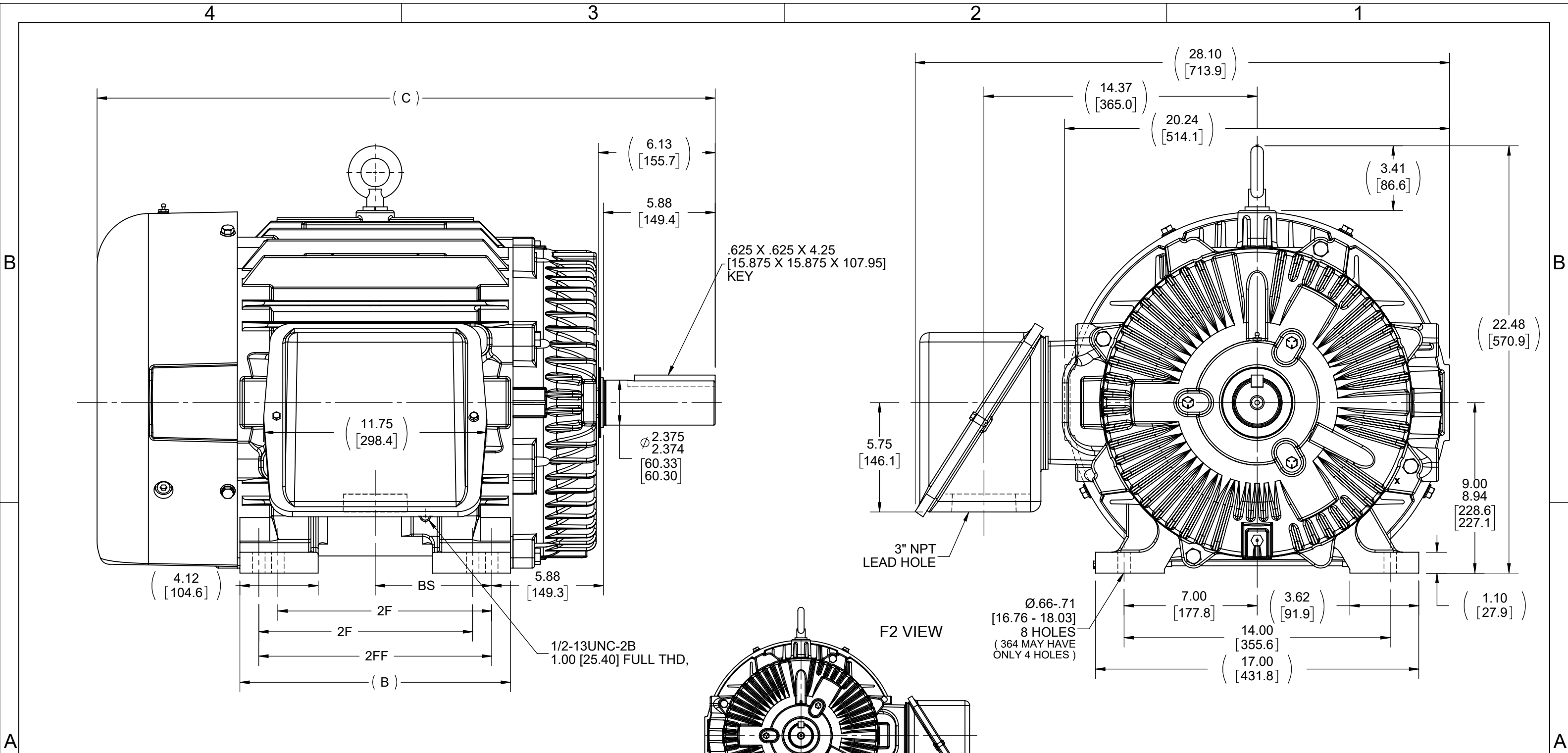
Nameplate Specifications

| | | | |
|------------------------|-------------------|----------------------------|------------------------------------|
| Output HP | 75 Hp | Output KW | 56.0 kW |
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 86.0 A | Speed | 1780 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 95.4 % | Power Factor | 86 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | G |
| Frame | 365T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6314 | Opp Drive End Bearing Size | 6312 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 56 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | .075 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 | 32.51 in |
| Frame Length | 14.50 in | Shaft Diameter | 2.375 in |
| Shaft Extension | 6.12 in | Assembly/Box Mounting | F1/F2 Capable |
| Connection Drawing | A-EE7300U | Outline Drawing | B-SS508590-1450 |

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.625 X .625 X 4.25
[15.875 X 15.875 X 107.95]
KEY

Ø 2.375
2.374
[60.33
60.30]

1/2-13UNC-2B
1.00 [25.40] FULL THD,

3" NPT
LEAD HOLE

F2 VIEW

Ø.66-.71
[16.76 - 18.03]
8 HOLES
(364 MAY HAVE
ONLY 4 HOLES)

- 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. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
 4. DIMENSION IN [] DESIGNATE MILLIMETERS.

| DASH | FRAME | B | C | 2F | 2FF | BS |
|------|----------|-------------------|-------------------|-------------------|-------------------|------------------|
| 1350 | 364T | 13.25 [336.55] | 31.51 [800.35] | 11.25 [285.75] | --- | 5.62 [142.74] |
| 1450 | 364/365T | 14.25 [361.95] | 32.51 [825.75] | 11.25 [285.75] | 12.25 [311.15] | 6.12 [155.44] |

| | | |
|---|-------------------|-------------------------------|
| DRAWING REVISION H | REVISION BY VS | REV DATE/© DATE 09-27-2021 |
| REQUEST NUMBER NMR-0210511 | APPROVED BY VS | DATE 09-27-2021 |
| REQUEST NUMBER DESCRIPTION VIEWS UPDATED | | |
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TOLERANCES (EXCEPT AS NOTED):
 DEC. INCH mm ANGLE
 .X ±0.1 [±3] ±7° 30"
 .XX ±0.03 [±0.8]
 .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 INCH/mm 5.1
 mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

| | |
|-------------------|------------------------|
| DRAWN BY TLB | DATE 01-29-1988 |
| APPROVED BY ML | DATE 01-29-1988 |
| REFERENCE | THIRD ANGLE PROJECTION |

| | |
|---|----------------------------|
| REGAL Regal Beloit America, Inc. | |
| DESCRIPTION OUTLINE | |
| 360T FR. - TEFC - GROUND LUG - TAPPED LEAD HOLE | |
| MATERIAL | PROCESS/FINISH |
| SIZE B | DRAWING NUMBER SS508590 |
| SHEET 1 OF 1 | |

IF MOTOR HAS 9 LEADS

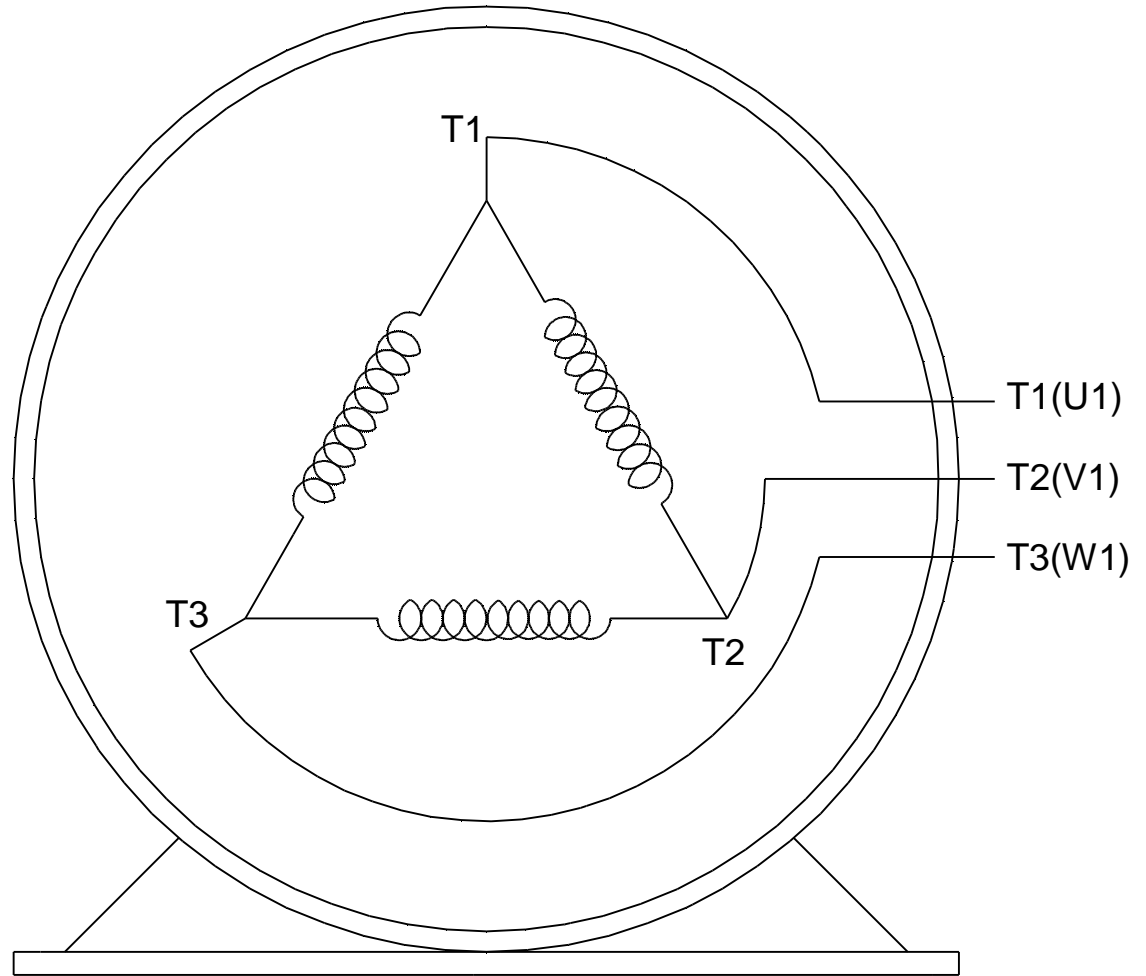


IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------------------------|---------------------------|--|--|-----------------------------------|---|-------------|---|--------------|-----------------------------------|------|--------|---------|-----|-------|---------|--|------|--------|----------|--|-------|---------|-----------|--|---------------------------|
| DRAWING REVISION L | REVISION BY AJW | DATE 05-04-2015 | TOLERANCES UNLESS OTHERWISE SPECIFIED: | DRAWN BY DRS | Regal Beloit America, Inc. | | | | | | | | | | | | | | | | | | | | | |
| ECO ECO-0077067 | APPROVED BY EWH | DATE 05-05-2015 | <table style="font-size: small; border-collapse: collapse;"> <tr> <td><u>DEC.</u></td> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±7° 30"</td> </tr> <tr> <td>.XX</td> <td>±0.02</td> <td>[±0.51]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </table> | <u>DEC.</u> | | | <u>INCH</u> | <u>mm</u> | <u>ANGLE</u> | .X | ±0.1 | [±2.5] | ±7° 30" | .XX | ±0.02 | [±0.51] | | .XXX | ±0.005 | [±0.127] | | .XXXX | ±0.0005 | [±0.0127] | | DATE 09-27-1996 |
| <u>DEC.</u> | <u>INCH</u> | <u>mm</u> | <u>ANGLE</u> | | | | | | | | | | | | | | | | | | | | | | | |
| .X | ±0.1 | [±2.5] | ±7° 30" | | | | | | | | | | | | | | | | | | | | | | | |
| .XX | ±0.02 | [±0.51] | | | | | | | | | | | | | | | | | | | | | | | | |
| .XXX | ±0.005 | [±0.127] | | | | | | | | | | | | | | | | | | | | | | | | |
| .XXXX | ±0.0005 | [±0.0127] | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | DATE 09-30-1996 | | | SIZE A | | DRAWING NUMBER EE7300U | | SHEET 1 OF 1 | | | | | | | | | | | | | | | | |
| <small>mm SHOWN IN [BRACKETS]</small> | | | REFERENCE | THIRD ANGLE PROJECTION | | | | | | 5.1 <small>INCH</small> | | | | | | | | | | | | | | | | |
| | | | <small>REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°</small> <small>CORNER FILLETS: R.02 [.51]</small> <small>MACHINED SURFACES: 200</small> | | | <small>5.1</small> <small>mm</small> | | | | | | | | | | | | | | | | | | | | |

Data Sheet

Date: 29-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



365THFS9036

Submittal

Data @ 460 V

Motor Load Data

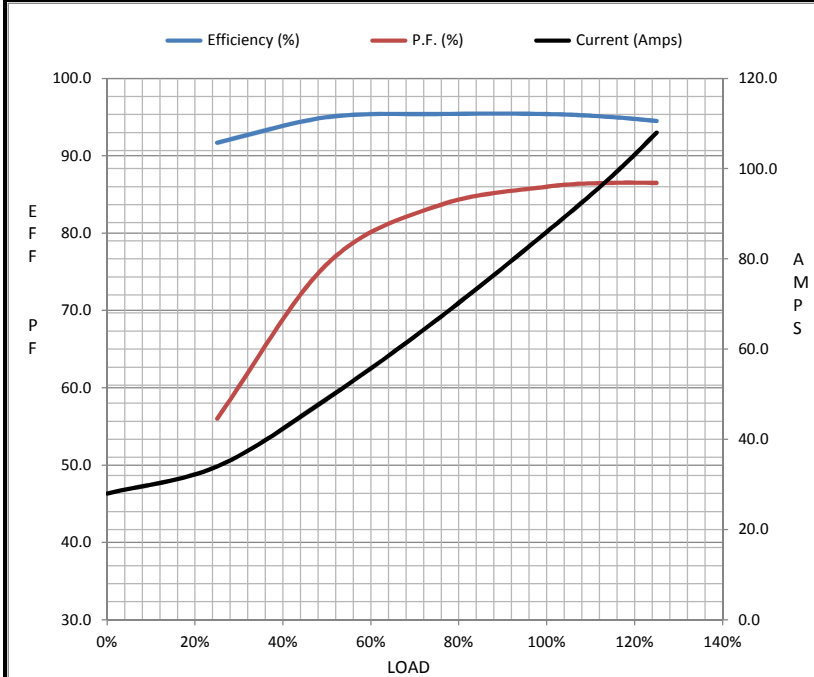
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 28.0 | 34.0 | 49.0 | 66.5 | 86.0 | 98.5 | 108 | 542 |
| Torque (ft-lb) | 0.00 | 55.0 | 110 | 166 | 221 | 255 | 278 | 445 |
| RPM | 1800 | 1795 | 1790 | 1785 | 1780 | 1,775 | 1772 | 0 |
| Efficiency (%) | | 91.7 | 95.0 | 95.4 | 95.4 | 95.0 | 94.5 | |
| P.F. (%) | 4.5 | 56.0 | 76.0 | 83.5 | 86.0 | 86.5 | 86.5 | 35.5 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 900 | 1725 | 1780 | 1800 |
| Current (Amps) | 542 | 500 | 300 | 86.0 | 28.0 |
| Torque (ft-lb) | 445 | 375 | 575 | 221 | 0.00 |

Information Block

| | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 75.0 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 365 | | | |
| Enclosure | TEFC | | | |
| Construction | TFS | | | |
| Voltage | 460 V | | | |
| Frequency | 60 Hz | | | |
| Design | A | | | |
| LR Code letter | G | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 80 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 18.5 Lb-Ft ² | | | |
| Ref Wdg | T367405 NONE | | | |
| Sound Pressure @ 1M | 68 dBA | | | |
| VFD Rating | CONSTANT 2:1 | | | |
| Outline Dwg | B-SS508590-1450 | | | |
| Conn. Diag | A-EE7300U | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0560 | 0.0360 | 0.3190 | 0.3860 | 9.2420 |



Speed - Torque Curve

