

# Severe Duty Motors

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**Model No:** 365THFCD19065

**Catalog No:** W594A-P

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Severe Duty Motor, 75 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 365T Frame, TEFC

**Product Information Packet: Model No: 365THFCD19065, Catalog No: W594A-P Severe Duty Motor, 75 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 365T Frame, TEFC**

### Nameplate Specifications

|                            |                                    |                        |                      |
|----------------------------|------------------------------------|------------------------|----------------------|
| Phase                      | <b>3</b>                           | Output HP              | <b>75 Hp</b>         |
| Output KW                  | <b>56.0 kW</b>                     | Voltage                | <b>460 V</b>         |
| Speed                      | <b>1780 r/min</b>                  | Synchronous RPM        | <b>1800 r/min</b>    |
| Service Factor             | <b>1.15</b>                        | Frame                  | <b>365T</b>          |
| Enclosure                  | <b>Totally Enclosed Fan Cooled</b> | Thermal Protection     | <b>No Protection</b> |
| Efficiency                 | <b>95.5 %</b>                      | Ambient Temperature    | <b>40 °C</b>         |
| Frequency                  | <b>60 Hz</b>                       | Current                | <b>85.0 A</b>        |
| Power Factor               | <b>87.5</b>                        | Duty                   | <b>Continuous</b>    |
| Insulation Class           | <b>H</b>                           | Design Code            | <b>B</b>             |
| KVA Code                   | <b>G</b>                           | Drive End Bearing Size | <b>6313</b>          |
| Opp Drive End Bearing Size | <b>6213</b>                        | UL                     | <b>Recognized</b>    |
| CSA                        | <b>Y</b>                           | CE                     | <b>Y</b>             |
| IP Code                    | <b>56</b>                          | Number of Speeds       | <b>1</b>             |

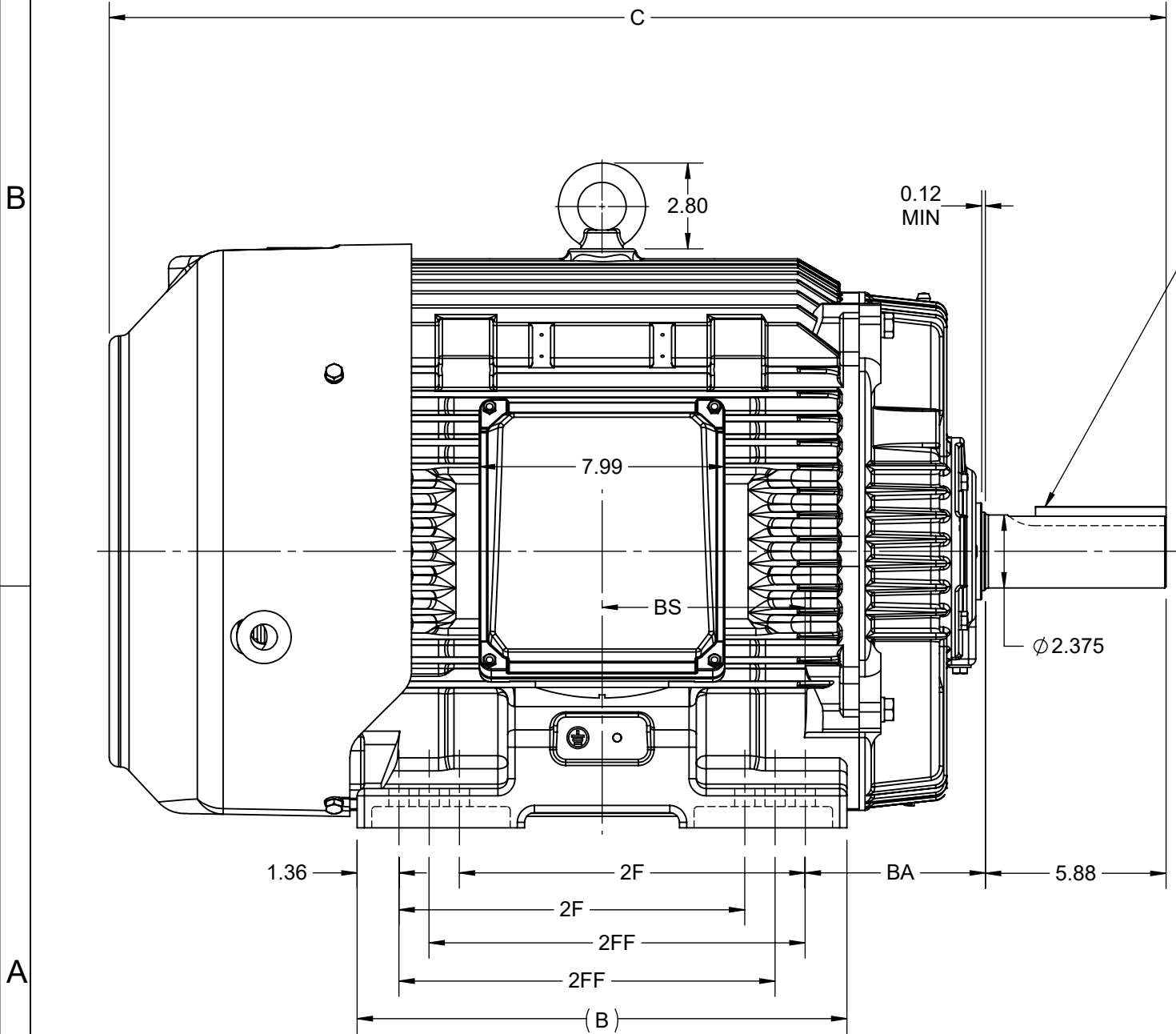
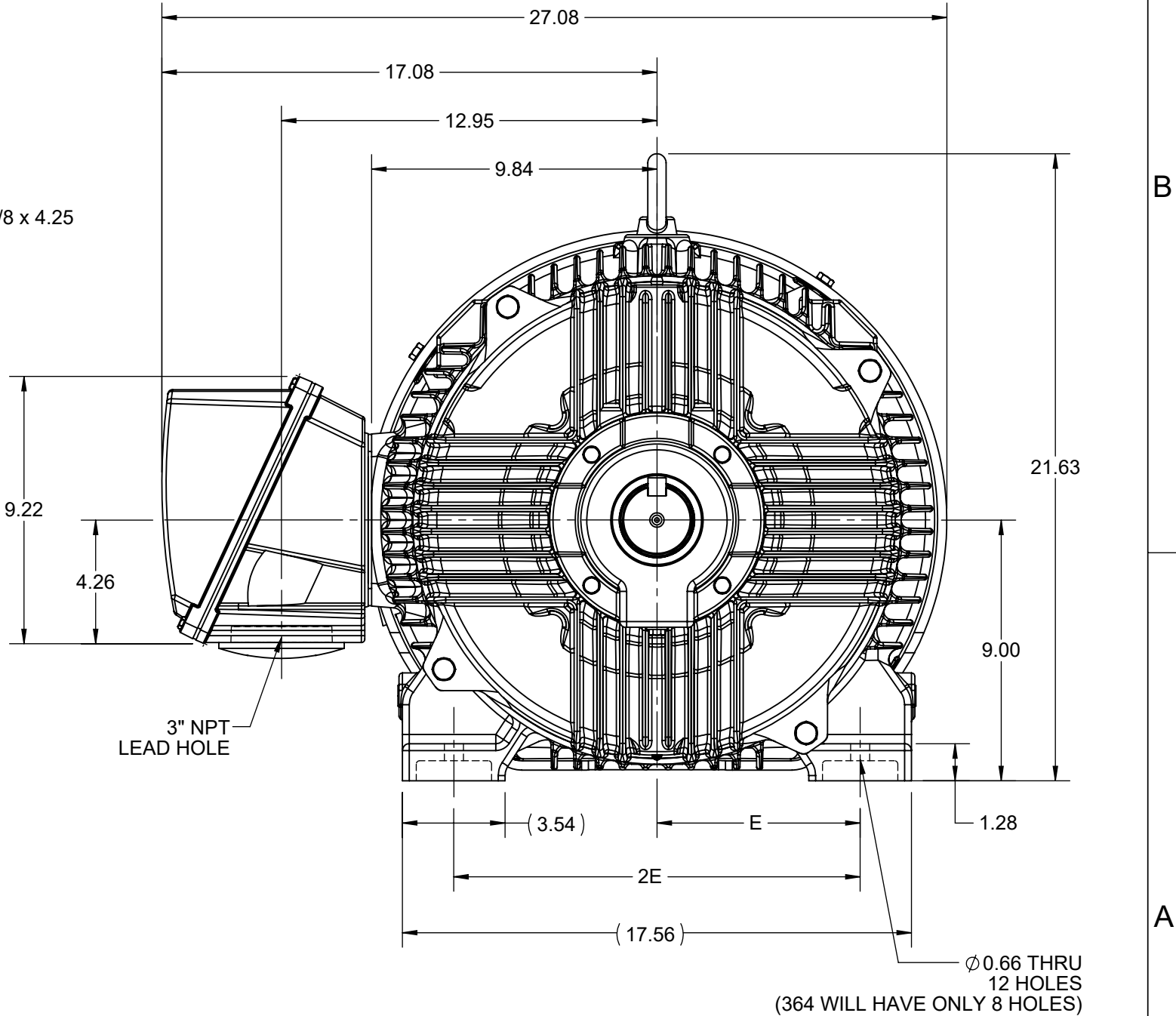
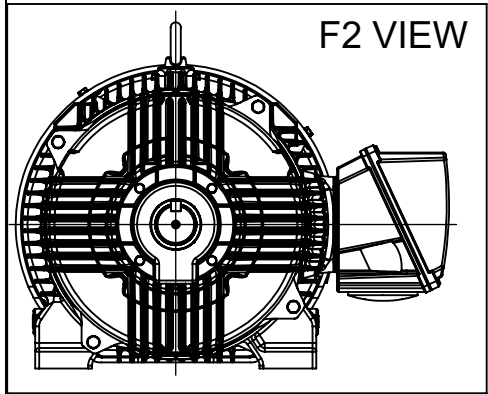
### Technical Specifications

|                       |                                     |                   |                                   |
|-----------------------|-------------------------------------|-------------------|-----------------------------------|
| Electrical Type       | <b>Squirrel Cage Inverter Rated</b> | Starting Method   | <b>Line Or Inverter</b>           |
| Poles                 | <b>4</b>                            | Rotation          | <b>Reversible</b>                 |
| Resistance Main       | <b>.076 O</b>                       | Mounting          | <b>Rigid Base</b>                 |
| Motor Orientation     | <b>Horizontal</b>                   | Drive End Bearing | <b>Ball</b>                       |
| Opp Drive End Bearing | <b>Ball</b>                         | Frame Material    | <b>Cast Iron</b>                  |
| Shaft Type            | <b>T</b>                            | Shaft Diameter    | <b>2.375 in</b>                   |
| Assembly/Box Mounting | <b>F1/F2 Capable</b>                | Inverter Load     | <b>Constant 2:1/Variable 10:1</b> |

### Drawings

|                    |                |                 |                     |
|--------------------|----------------|-----------------|---------------------|
| Connection Drawing | <b>EE7300U</b> | Outline Drawing | <b>SS557662-200</b> |
|--------------------|----------------|-----------------|---------------------|

| 4        |       |       |      |       | 3     |       |      |      |          | 2        |  | 1 |  |
|----------|-------|-------|------|-------|-------|-------|------|------|----------|----------|--|---|--|
| DASH NO. | B     | C     | E    | 2E    | 2F    | 2FF   | BA   | BS   | MOUNTING | FRAME    |  |   |  |
| 100      | 14.96 | 33.40 | 7.00 | 14.00 | -     | 11.25 | 5.88 | 6.12 | F1 OR F2 | 364T     |  |   |  |
| 200      | 15.94 | 34.40 |      |       | 11.25 | 12.25 |      | 6.62 |          | 364/365T |  |   |  |

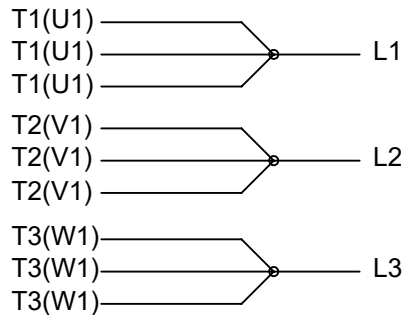


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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|
| DRAWING REVISION<br>D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REVISION BY<br>SB  | REV DATE/© DATE<br>07/24/2025 |
| REQUEST NUMBER<br>CR-0023556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | APPROVED BY<br>SBD | DATE<br>07/24/2025            |
| REQUEST NUMBER DESCRIPTION<br>DRAWING TITLE BLOCK UPDATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                               |
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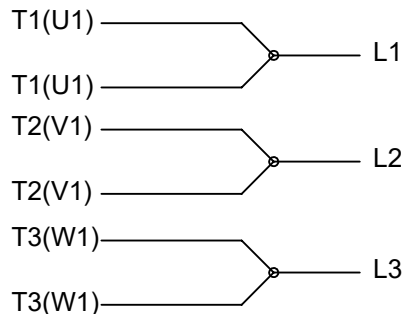
PRIMARY DIMENSIONS ARE INCH  
mm DIMENSIONS IN [BRACKETS]  
ARE FOR REFERENCE ONLY

|                           |                               |                                   |                 |
|---------------------------|-------------------------------|-----------------------------------|-----------------|
| DRAWN BY<br>BISWA         | <b>marathon™</b>              |                                   |                 |
| DATE<br>01/10/2018        |                               |                                   |                 |
| APPROVED BY<br>SBD        | DESCRIPTION<br><b>OUTLINE</b> |                                   |                 |
| DATE<br>01/10/2018        | 364/365T FR-NEMA-SD & IEEE841 |                                   |                 |
| REFERENCE                 | MATERIAL                      | PROCESS/FINISH                    |                 |
| THIRD ANGLE<br>PROJECTION | SIZE<br>B                     | DRAWING NUMBER<br><b>SS557662</b> | SHEET<br>1 OF 1 |

# IF MOTOR HAS 9 LEADS

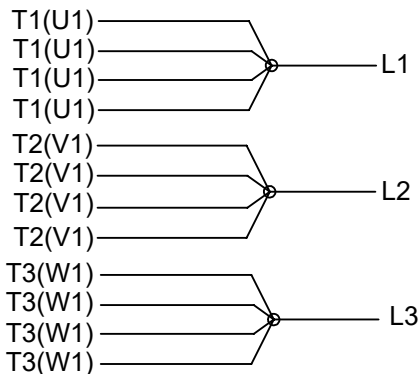
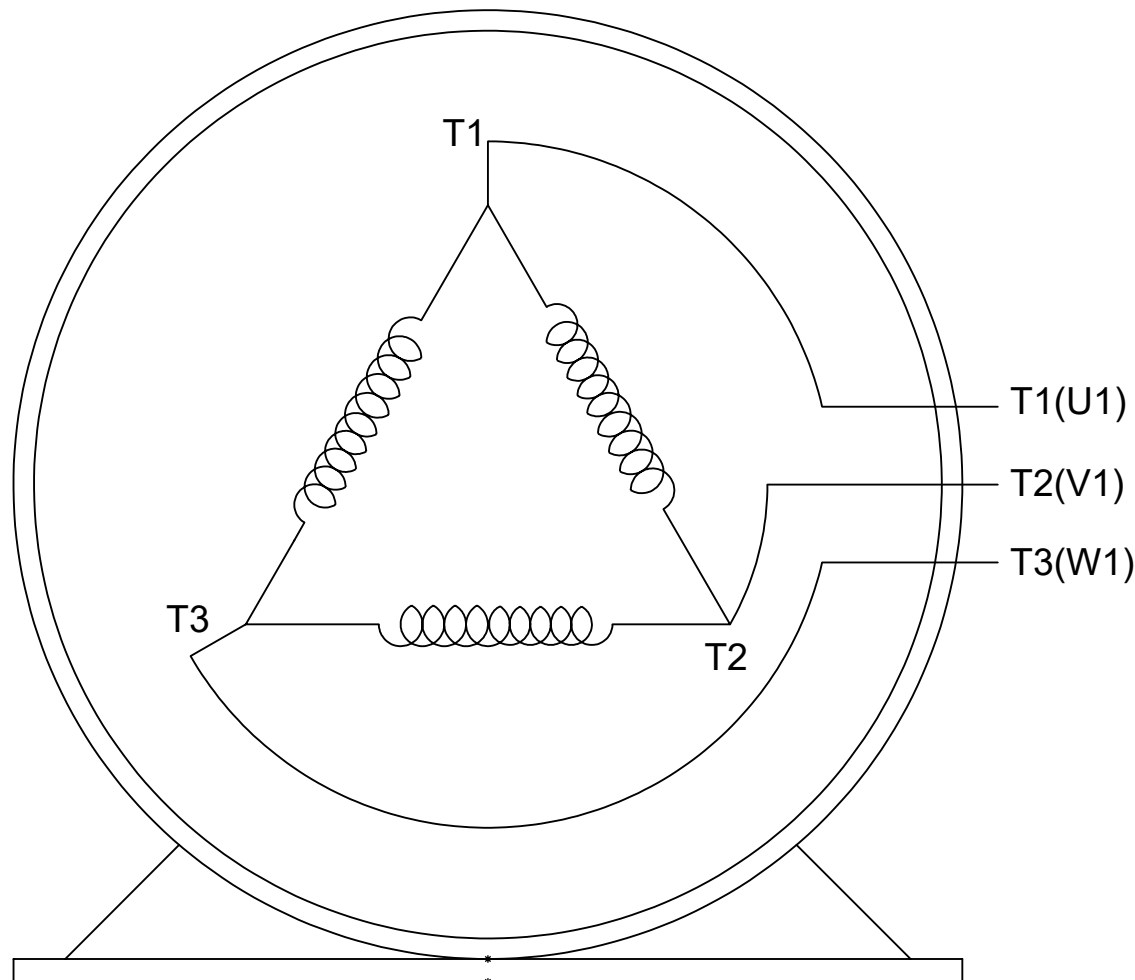


# IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

# IF MOTOR HAS 12 LEADS



VIEW OF TERMINAL END

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------|
| DRAWING REVISION<br>M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REVISION BY<br>SB  | REV DATE/© DATE<br>08/01/2025 |
| REQUEST NUMBER<br>CR-0023654                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | APPROVED BY<br>SBD | DATE<br>08/01/2025            |
| REQUEST NUMBER DESCRIPTION<br>DRAWING TITLE BLOCK UPDATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                               |
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PRIMARY DIMENSIONS ARE INCH  
mm DIMENSIONS IN [BRACKETS]  
ARE FOR REFERENCE ONLY

|                           |                                      |                           |
|---------------------------|--------------------------------------|---------------------------|
| DRAWN BY<br>DRS           | <b>marathon™</b>                     |                           |
| DATE<br>09-27-1996        |                                      |                           |
| APPROVED BY<br>GK         | DESCRIPTION<br>CONN DIAGRAM-EXTERNAL |                           |
| DATE<br>09-30-1996        | 3Ø SINGLE VOLTAGE                    |                           |
| REFERENCE                 | MATERIAL                             | PROCESS/FINISH            |
| THIRD ANGLE<br>PROJECTION | SIZE<br>A                            | DRAWING NUMBER<br>EE7300U |
|                           |                                      | SHEET<br>1 OF 1           |

## Data Sheet

Date: 5/6/2020  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_

**marathon**  
Motors

365THFCD19065

Submittal

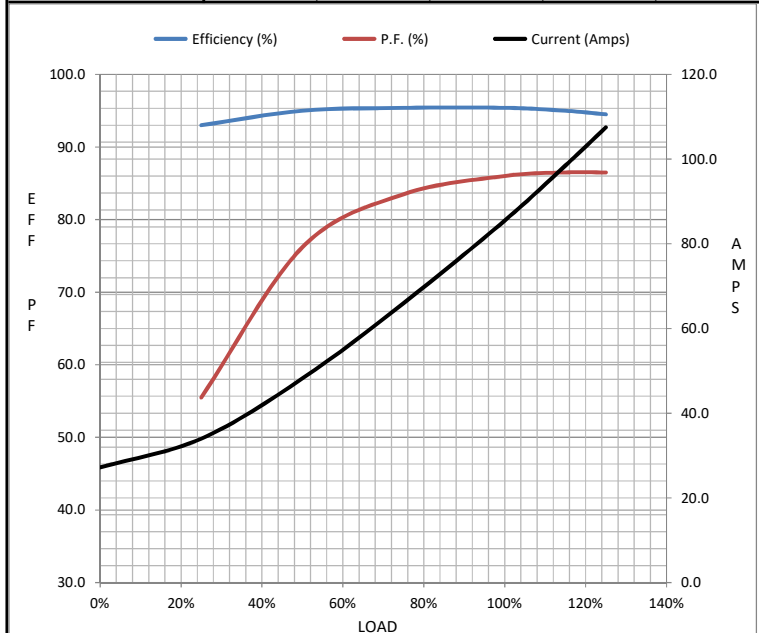
Data @ 460 V

## Motor Load Data

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 27.2 | 34.0 | 48.2 | 66.0 | 85.5 | 98.5  | 108  | 542  |  |
| Torque (ft-lb) | 0.00 | 55.0 | 110  | 166  | 221  | 254   | 280  | 464  |  |
| RPM            | 1800 | 1795 | 1792 | 1788 | 1782 | 1,780 | 1775 | 0    |  |
| Efficiency (%) |      | 93.0 | 95.0 | 95.4 | 95.4 | 95.0  | 94.5 |      |  |
| P.F. (%)       | 3.5  | 55.5 | 76.2 | 83.5 | 86.0 | 86.5  | 86.5 | 34.0 |  |

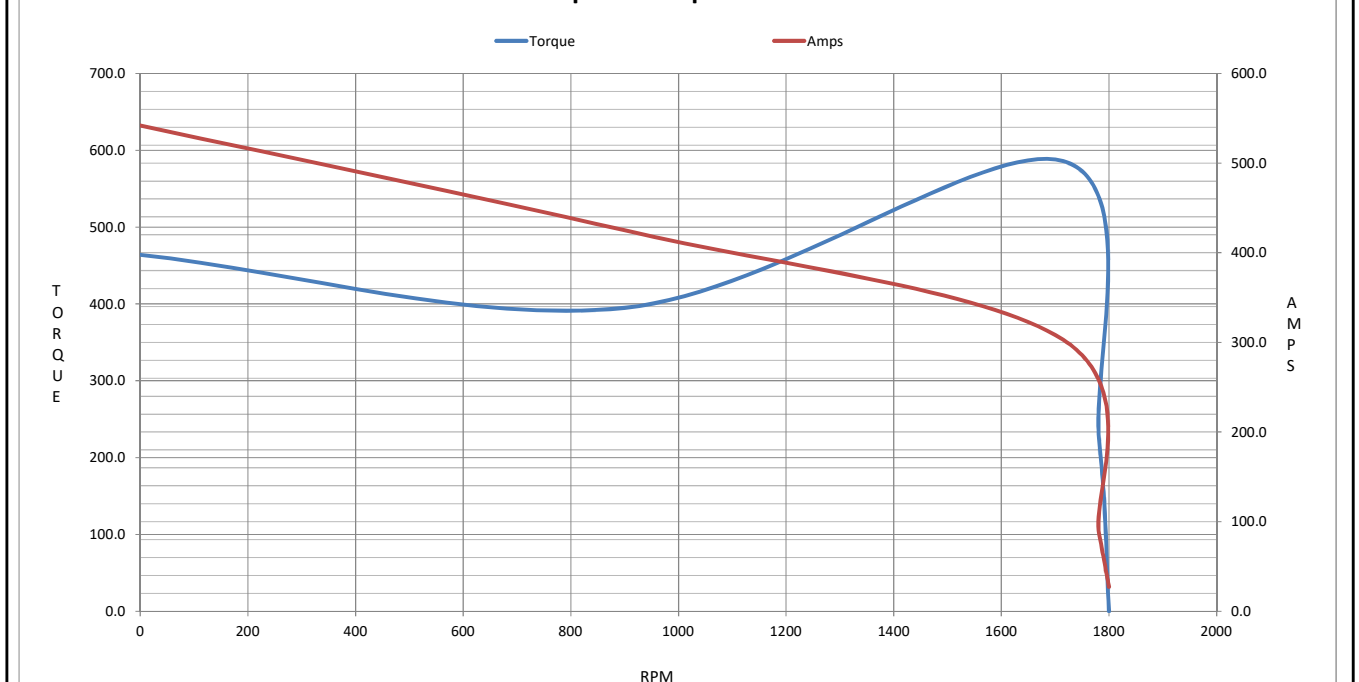
## Motor Speed Data

|                | LR  | Pull-Up | BD   | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM)    | 0   | 900     | 1715 | 1782  | 1800 |
| Current (Amps) | 542 | 425     | 303  | 85.5  | 27.2 |
| Torque (ft-lb) | 464 | 395     | 586  | 221   | 0.00 |



| Information Block          |        |                            |        |        |
|----------------------------|--------|----------------------------|--------|--------|
| HP                         |        | 75.0                       |        |        |
| Sync. RPM                  |        | 1800                       |        |        |
| Frame                      |        | 365                        |        |        |
| Enclosure                  |        | TEFC                       |        |        |
| Construction               |        | TFC                        |        |        |
| Voltage                    |        | 460 V                      |        |        |
| Frequency                  |        | 60 Hz                      |        |        |
| Design                     |        | B                          |        |        |
| LR Code letter             |        | G                          |        |        |
| Service Factor             |        | 1.15                       |        |        |
| Temp Rise @ FL             |        | 65 ° C                     |        |        |
| Duty                       |        | CONT                       |        |        |
| Ambient                    |        | 40 ° C                     |        |        |
| Elevation                  |        | 3,300 feet                 |        |        |
| Rotor/Shaft wk²            |        | 20.5 Lb-Ft²                |        |        |
| Ref Wdg                    |        | HA32254009 NONE            |        |        |
|                            |        |                            |        |        |
| Sound Pressure @ 1M        |        | 72 dBA                     |        |        |
|                            |        |                            |        |        |
| VFD Rating                 |        | CONSTANT 2:1/VARIABLE 10:1 |        |        |
|                            |        |                            |        |        |
| Outline Dwg                |        | SS557662                   |        |        |
| Conn. Diag                 |        | EE7300U                    |        |        |
| Additional Specifications: |        |                            |        |        |
| 0                          |        |                            |        |        |
| 0                          |        |                            |        |        |
| EQUIV CKT (OHMS / PHASE)   |        |                            |        |        |
| R1                         | R2     | X1                         | X2     | Xm     |
| 0.0450                     | 0.0320 | 0.2720                     | 0.4010 | 9.0720 |

## Speed -Torque Curve





DATA VOLTS: 460

## CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7300U  
 REFERENCE MODEL #: 365THFCD19065  
 OUTLINE: SS557662  
 CAT #: W594A-P  
 WINDING: HA32254009 NONE 1  
 MOUNTING: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|----|----|----------|--------|-------|-----------|------|----------|--------|
| 75 | 56 | 1800     | 1782   | 365T  | TEFC      | TFC  | G        | B      |

| PH | HZ | VOLTS | AMPS | START TYPE       | DUTY | INSL | S.F. | AMB (° C) | ELEV. (Ft) |
|----|----|-------|------|------------------|------|------|------|-----------|------------|
| 3  | 60 | 460   | 85.5 | LINE OR INVERTER | CONT | H    | 1.15 | 40        | 3300       |

| F.L. EFF | 95.4 | 3/4 LD EFF | 95.4 | 1/2 LD EFF | 95.0 | GTD EFF | ELECT. TYPE       |
|----------|------|------------|------|------------|------|---------|-------------------|
| F.L. PF  | 86.0 | 3/4 LD PF  | 83.5 | 1/2 LD PF  | 76.2 | 95.0    | SQ CAGE INV RATED |

| F.L. TORQUE | LR AMPS | L.R. TORQUE    | B.D. TORQUE    | F.L. RISE (° C) |
|-------------|---------|----------------|----------------|-----------------|
| 221 LB-FT   | 542     | 464 LB-FT 210% | 586 LB-FT 265% | 65              |

| SOUND PRESSURE | SOUND  | ROTOR WK²   | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | APROX.   |
|----------------|--------|-------------|---------------|-----------------|-------------|----------|
| 72 dBA         | 81 dBA | 20.5 LB-FT² | 500 LB-FT²    | 20 SEC.         | 2           | 1063 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        | PREMIUM SEVERE DUTY | NONE               | NO         | NONE    | BLUE (EPOXY) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL          | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE       | ODE  | POLYREX EM | T          | NONE       | NONE        | 1045 HOT ROLLED (C-204) | CAST IRON      |
| BALL     | BALL |            |            |            |             |                         |                |
| 6313     | 6213 |            |            |            |             |                         |                |

| 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) |
|--------------|--------------|--------------|--------------|--------------|--------------------|
| 0.045        | 0.032        | 0.272        | 0.401        | 9.072        | 0.080              |

|                                       |                                                                  |                                                       |
|---------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|
| *<br>N<br>O<br>T<br>E<br>S<br>*       | If Inverter equals NONE, contact factory for further information |                                                       |
|                                       | INVERTER TORQUE: CONSTANT 2:1/VARIABLE 10:1                      |                                                       |
|                                       | INV. HP SPEED RANGE: NONE                                        |                                                       |
|                                       | ENCODER: NONE                                                    |                                                       |
|                                       | NONE PPR                                                         |                                                       |
| PREPARED BY: _____<br>DATE: 5/13/2020 |                                                                  | BRAKE: NONE<br>NONE<br>FT-LB: NA<br>VOLTAGE: NONE HZ: |

FORM: 3531 REV\_4 2/27/06  
 \*\* Subject to change without notice.