

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 365TSTFC6003

Catalog No: E991A

XRI® General Purpose General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
3600 & 3000 RPM, 365TS Frame, TEFC



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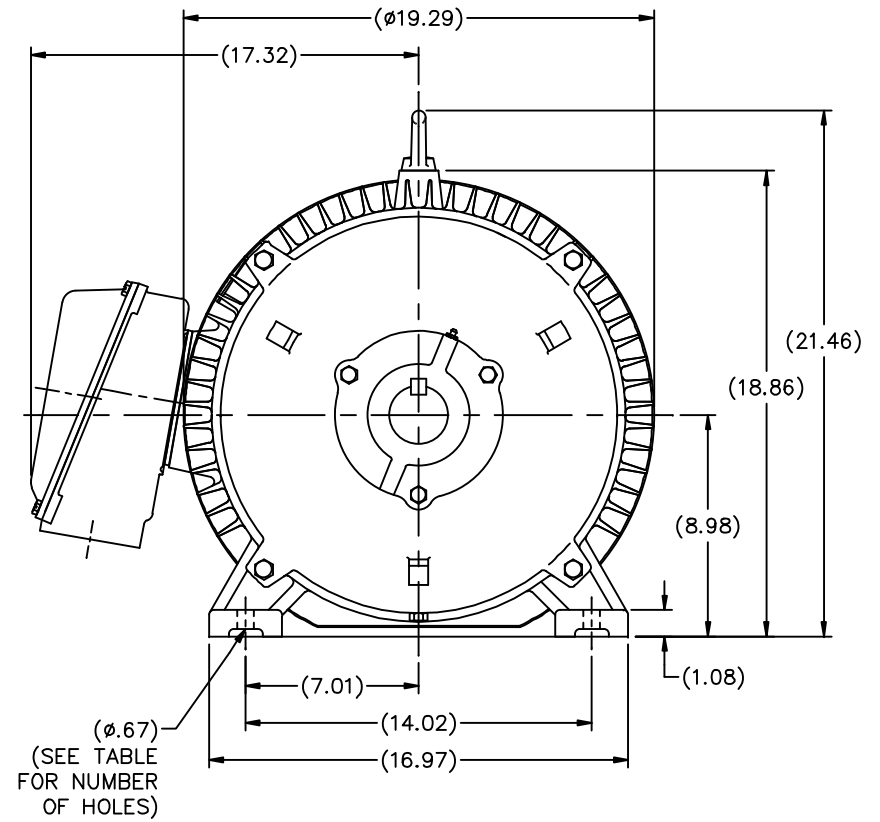
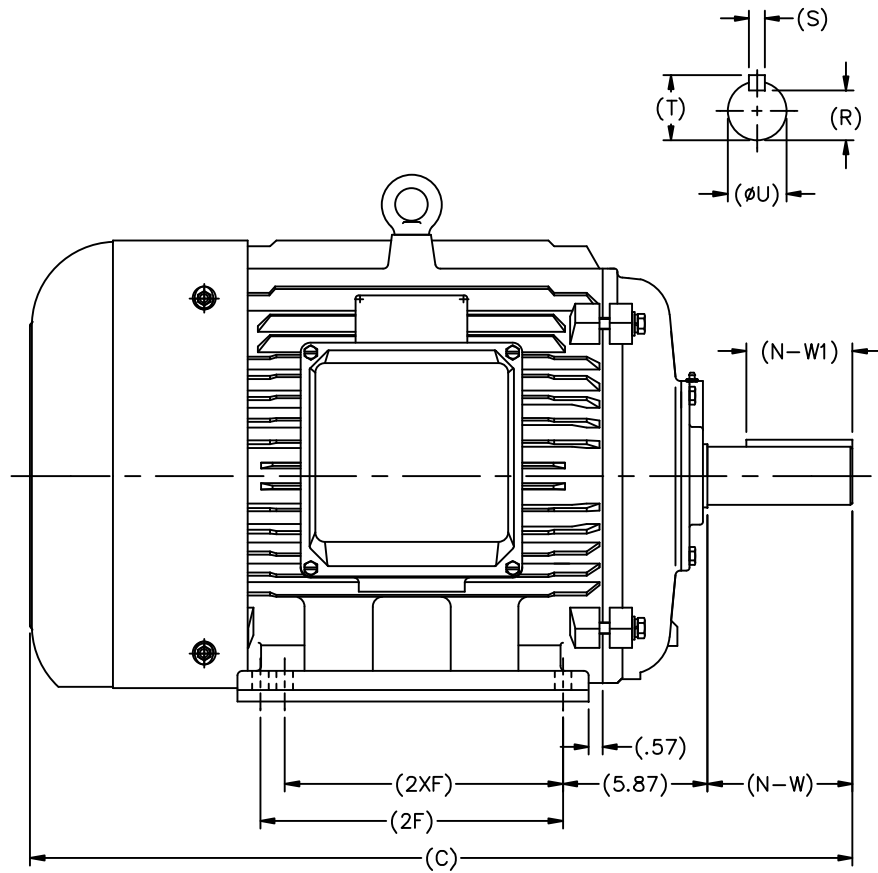
**RegalRexnord**

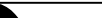
### Nameplate Specifications

|                        |                       |                            |                             |
|------------------------|-----------------------|----------------------------|-----------------------------|
| Phase                  | 3                     | Output HP                  | 75 & 60 Hp                  |
| Output KW              | 56.0 & 45.0 kW        | Voltage                    | 230/460 & 190/380 V         |
| Speed                  | 3570 & 2970 rpm       | Service Factor             | 1.15 & 1.15                 |
| Frame                  | 365TS                 | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection         | Efficiency                 | 94.5 & 94.5 %               |
| Ambient Temperature    | 40 °C                 | Frequency                  | 60 & 50 Hz                  |
| Current                | 167/83.5 & 161/80.5 A | Power Factor               | 88.5                        |
| Duty                   | Continuous            | Insulation Class           | F                           |
| Design Code            | B                     | KVA Code                   | F                           |
| Drive End Bearing Size | 6313                  | Opp Drive End Bearing Size | 6313                        |
| UL                     | Recognized            | CSA                        | Y                           |
| CE                     | Y                     | IP Code                    | 43                          |
| Number of Speeds       | 1                     |                            |                             |

### Technical Specifications

|                       |                             |                    |                 |
|-----------------------|-----------------------------|--------------------|-----------------|
| Electrical Type       | Squirrel Cage Induction Run | Starting Method    | Across The Line |
| Poles                 | 2                           | Rotation           | Reversible      |
| Resistance Main       | .055 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     | 30.20 in        |
| Shaft Diameter        | 1.875 in                    | Shaft Extension    | 3.75 in         |
| Assembly/Box Mounting | F1/F2 Capable               |                    |                 |
| Outline Drawing       | SS622180                    | Connection Drawing | 00417203ME      |

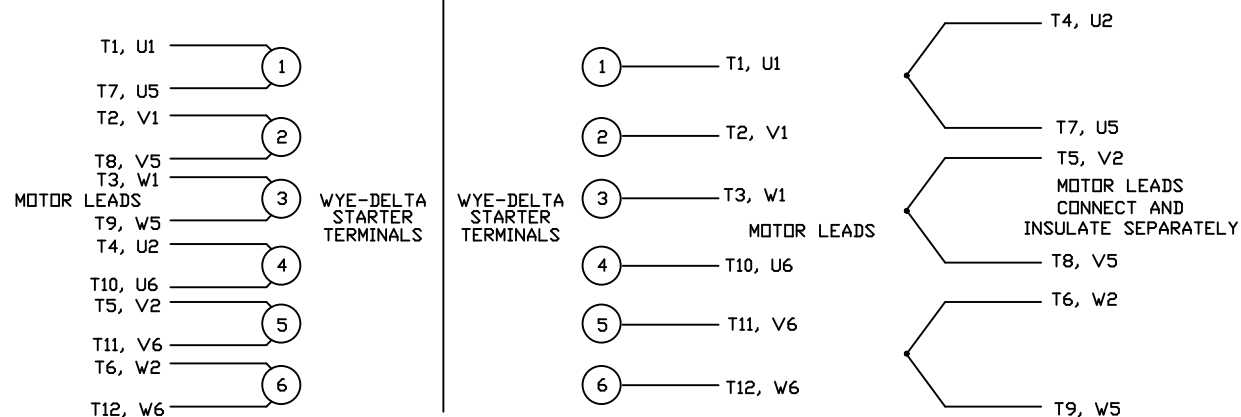


|                                                                                                                                                                                                                                  |       |          |       |    |      |       |           |      |      |      |      |     |                   |  |                                |  |                                                                                                                       |                     |                      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------|----|------|-------|-----------|------|------|------|------|-----|-------------------|--|--------------------------------|--|-----------------------------------------------------------------------------------------------------------------------|---------------------|----------------------|------|
|                                                                                                                                                                                                                                  |       |          |       |    |      |       |           |      |      |      |      |     |                   |  | TOLERANCES<br>UNLESS SPECIFIED |  |  <b>REGAL-BELOIT CORPORATION</b> |                     | DRAWN MSG 02-13-2007 |      |
|                                                                                                                                                                                                                                  |       |          |       |    |      |       |           |      |      |      |      |     |                   |  | DEC. INCHES                    |  |                                                                                                                       |                     | CHK ML 02-16-2207    |      |
|                                                                                                                                                                                                                                  |       |          |       |    |      |       |           |      |      |      |      |     |                   |  | .X ±.1                         |  |                                                                                                                       |                     | APPD SB 02-23-2007   |      |
| NT364TS-2                                                                                                                                                                                                                        | 30.20 | 11.26    | ---   | 4  | 3.74 | 2.05  | 1.87      | 1.59 | 0.50 | 2.09 |      |     |                   |  | .XX ±.03                       |  | TITLE OUTLINE                                                                                                         |                     | SCALE 1=5            |      |
| NT365TS-2                                                                                                                                                                                                                        | 31.18 | 12.24    | 11.26 | 6  |      |       |           |      |      |      |      |     |                   |  | .XXX ±.005                     |  | 360 FR. - TEFC - (REDESIGNED)                                                                                         |                     | REF                  |      |
| NT364T-4, 6                                                                                                                                                                                                                      | 32.32 | 11.26    | ---   | 4  | 5.87 | 4.29  | 2.37      | 2.01 | 0.63 | 2.64 |      |     |                   |  | .XXXX ±.0005                   |  | MAT'L                                                                                                                 |                     | FMF HEBE             |      |
| NT365T-4, 6                                                                                                                                                                                                                      | 33.31 | 12.24    | 11.26 | 6  |      |       |           |      |      |      |      |     |                   |  |                                |  |                                                                                                                       |                     |                      |      |
| 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 |       |          |       |    |      |       |           |      |      |      | RFP  |     | CAD FILE SS622180 |  |                                |  | SIZE                                                                                                                  | DRAWING NO. PAGE OF |                      | REV. |
|                                                                                                                                                                                                                                  |       |          |       |    |      |       |           |      |      |      | DIST |     |                   |  |                                |  | B                                                                                                                     | SS622180            |                      |      |
| FRAME                                                                                                                                                                                                                            |       | C        |       | 2F | 2XF  | HOLES | N-W       | N-W1 | øU   | R    | S    | T   |                   |  |                                |  |                                                                                                                       |                     |                      |      |

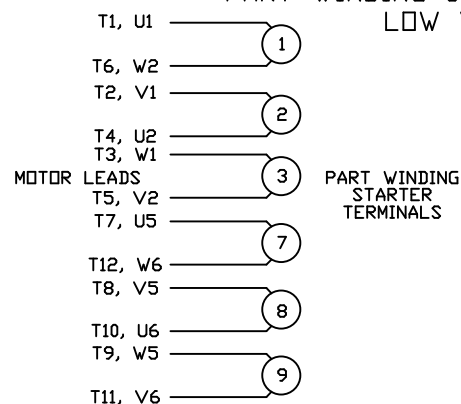
## WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

## LOW VOLTAGE CONNECTION

## HIGH VOLTAGE CONNECTION



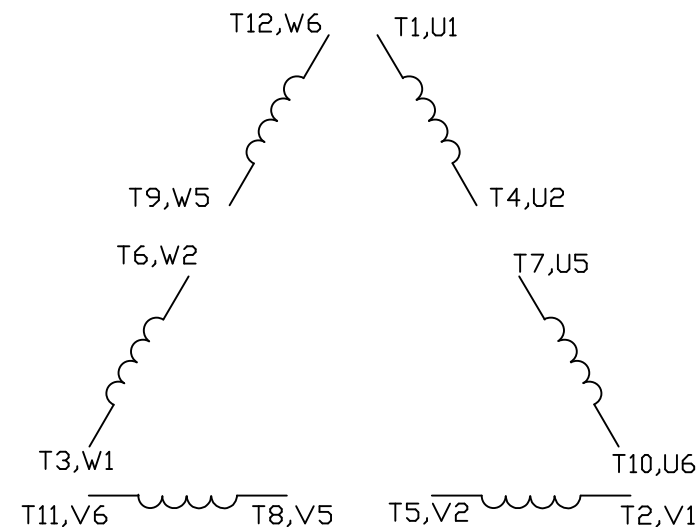
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

PART WINDING START USABLE ON 4 & 6 POLE MOTORS  
LOW VOLTAGE CONNECTION ONLY

REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

## LINE LEADS

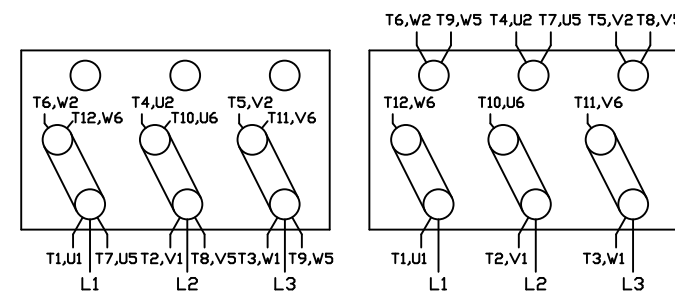


ROTATION CAN BE REVERSED BY INTERCHANGING ANY TWO LINE LEADS

12 LEAD DELTA CONNECTION ACROSS THE LINE START  
(FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE  
(MUST BE REWIRED  
AS SHOWN)

HIGH VOLTAGE  
(FACTORY WIRED FOR HIGH  
VOLTAGE AS SHOWN)



TOLERANCES  
UNLESS SPECIFIED

DEC. INCHES

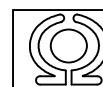
.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

ANG ±1/2°



**MARATHON**  
**ELECTRIC**

TITLE DELTA - WYE CONNECTION DIAGRAM  
IEC CAST IRON MOTORS

MAT'L.

FINISH

DRAWN CJW 08/28/02

CHK

APPD

SCALE 1=1

REF

FMF

PREV

NO. REVISION BY & DATE

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RFP

DIST

CAD FILE 00417203ME

SIZE

A

DRAWING NO.

004172-03ME

REV.

## CERTIFICATION DATA SHEET

Model#: 365TSTFC6003 AA  
 CONN. DIAGRAM: 00417203ME  
 OUTLINE: SS622180

WINDING#: T18302020 NONE 3  
 ASSEMBLY: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

| HP    | KW    | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-------|-----------|-----------|-------|-----------|----------|--------|
| 75&60 | 56&45 | 3600      | 3570&2970 | 365TS | TEFC      | F        | B      |

| PH | Hz    | VOLTS               | FL AMPS               | START TYPE         | DUTY           | INSL | S.F       | AMB°C | ELEVATION |
|----|-------|---------------------|-----------------------|--------------------|----------------|------|-----------|-------|-----------|
| 3  | 60/50 | 230/460#190/<br>380 | 167/83.5&161/<br>80.5 | ACROSS THE<br>LINE | CONTINUOU<br>S | F2   | 1.15/1.15 | 40    | 3300      |

|                             |                    |                    |          |                 |              |
|-----------------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD EFF:<br>94.5&94.5 | 3/4 LOAD EFF: 94.5 | 1/2 LOAD EFF: 94.1 | GTD. EFF | ELEC. TYPE      | NO LOAD AMPS |
| FULL LOAD PF:<br>88.5&89    | 3/4 LOAD PF: 87.5  | 1/2 LOAD PF: 83    | 93.6     | SQ CAGE IND RUN | 40 / 20      |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE   | B.D. TORQUE   | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 110 LB-FT   | 1030 / 515        | 180 LB-FT 164 | 275 LB-FT 250 | 65          |

| SOUND PRESSURE<br>@ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS<br>/HOUR | APPROX. MOTOR<br>WGT |
|---------------------------|-------------|------------|-----------|-----------------|-----------------|----------------------|
| 71 dBA                    | 81 dBA      | - LB-FT^2  | - LB-FT^2 | 15 SEC.         | -               | 780 LBS.             |

## \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

| DE BRACKET<br>TYPE | ODE BRACKET<br>TYPE | MOUNT<br>TYPE | ORIENTATION | SEVERE<br>DUTY | HAZARDOUS<br>LOCATION | D RIP<br>COVER | SCREENS | PAINT            |
|--------------------|---------------------|---------------|-------------|----------------|-----------------------|----------------|---------|------------------|
| STANDARD           | STANDARD            | RIGID         | HORIZONTAL  | FALSE          | NONE                  | FALSE          | NONE    | BLUE<br>(ENAMEL) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT<br>MATERIAL          | FRAME<br>MATERIAL |
|----------|------|------------|------------|------------|-------------|----------------------------|-------------------|
| DE       | OPE  |            |            |            |             |                            |                   |
| BALL     | BALL | POLYREX EM | TS         | NONE       | NONE        | 1045 HOT<br>ROLLED (C-204) | CAST IRON         |
| 6313     | 6313 |            |            |            |             |                            |                   |

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS       | PROTECTORS | WDG RTDs | BRG RTDs |             |         |                  |
| NONE              | NOT        | NONE     | NONE     | NONE        | FALSE   | NONE VOLTS       |

If Inverter equals NONE, contact factory for further  
information

|                                 |                            |
|---------------------------------|----------------------------|
| *<br>N<br>O<br>T<br>E<br>S<br>* | INVERTER TORQUE: NONE      |
|                                 | INV. HP SPEED RANGE: NONE  |
|                                 | ENCODER: NONE              |
|                                 | NONE NONE<br>NONE NONE PPR |
|                                 | BRAKE: NONE NONE           |
|                                 | NONE P/N NONE              |
|                                 | NONE NONE                  |
|                                 | NONE FT-LB NONE V NONE Hz  |

DATE: 06/22/2017 12:10:52 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

Date: 29-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



365TSTFC6003

Submittal

Data @ 460 V

## Motor Load Data

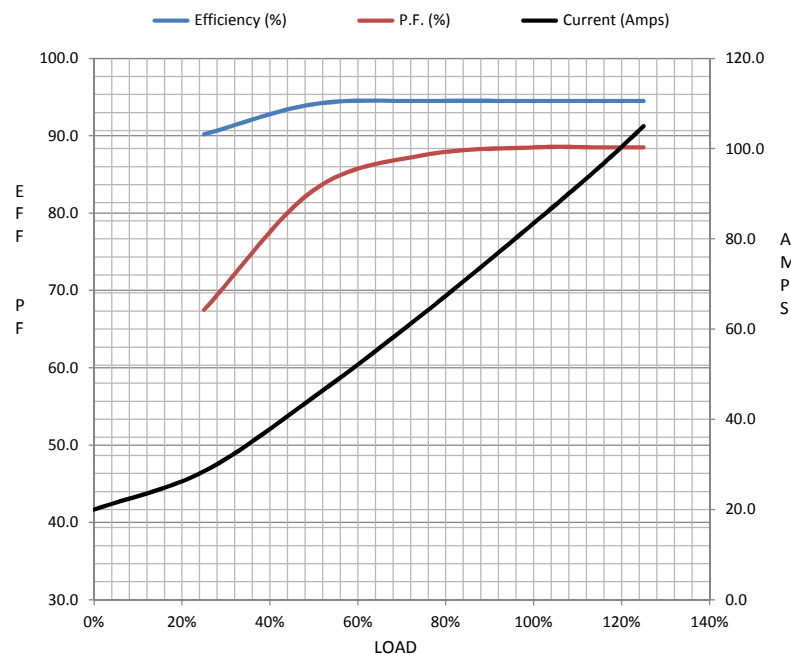
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115% | 125% | LR   |  |
|----------------|------|------|------|------|------|------|------|------|--|
| Current (Amps) | 20.0 | 28.5 | 45.0 | 63.5 | 83.5 | 96.0 | 105  | 515  |  |
| Torque (ft-lb) | 0.00 | 27.5 | 54.5 | 82.5 | 110  | 127  | 138  | 180  |  |
| RPM            | 3600 | 3595 | 3584 | 3578 | 3570 | 3565 | 3560 | 0    |  |
| Efficiency (%) |      | 90.2 | 94.1 | 94.5 | 94.5 | 94.5 | 94.5 |      |  |
| P.F. (%)       | 8.5  | 67.5 | 83.0 | 87.5 | 88.5 | 88.5 | 88.5 | 30.0 |  |

## Motor Speed Data

|                | LR  | Pull-Up | BD   | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM)    | 0   | 1800    | 3330 | 3570  | 3600 |
| Current (Amps) | 515 | 360     | 290  | 83.5  | 20.0 |
| Torque (ft-lb) | 180 | 160     | 275  | 110   | 0.00 |

## Information Block

|                            |                  |        |        |        |
|----------------------------|------------------|--------|--------|--------|
| HP                         | 75.0             |        |        |        |
| Sync. RPM                  | 3600             |        |        |        |
| Frame                      | 365              |        |        |        |
| Enclosure                  | TEFC             |        |        |        |
| Construction               | TFC              |        |        |        |
| Voltage                    | 230/460#190/38(V |        |        |        |
| Frequency                  | 60 Hz            |        |        |        |
| Design                     | B                |        |        |        |
| LR Code letter             | F                |        |        |        |
| Service Factor             | 1.15             |        |        |        |
| Temp Rise @ FL             | 65 ° C           |        |        |        |
| Duty                       | CONT             |        |        |        |
| Ambient                    | 40 ° C           |        |        |        |
| Elevation                  | 1,000 feet       |        |        |        |
| Rotor/Shaft wk²            | 0.00 Lb-Ft²      |        |        |        |
| Ref Wdg                    | T18302020 NONE   |        |        |        |
| Sound Pressure @ 1M        | 71 dBA           |        |        |        |
| VFD Rating                 | NONE             |        |        |        |
| Outline Dwg                | SS622180         |        |        |        |
| Conn. Diag                 | 4172.03          |        |        |        |
| Additional Specifications: |                  |        |        |        |
| 0                          |                  |        |        |        |
| 365THFS8036                |                  |        |        |        |
| EQUIV CKT (OHMS / PHASE)   |                  |        |        |        |
| R1                         | R2               | X1     | X2     | Xm     |
| 0.0000                     | 0.0000           | 0.0000 | 0.0000 | 0.0000 |



## Speed -Torque Curve

