

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 365TTFC6087

Catalog No: E993A

XRI® General Purpose General Purpose Motor, 50 & 40 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1200 & 1000 RPM, 365T Frame, TEFC



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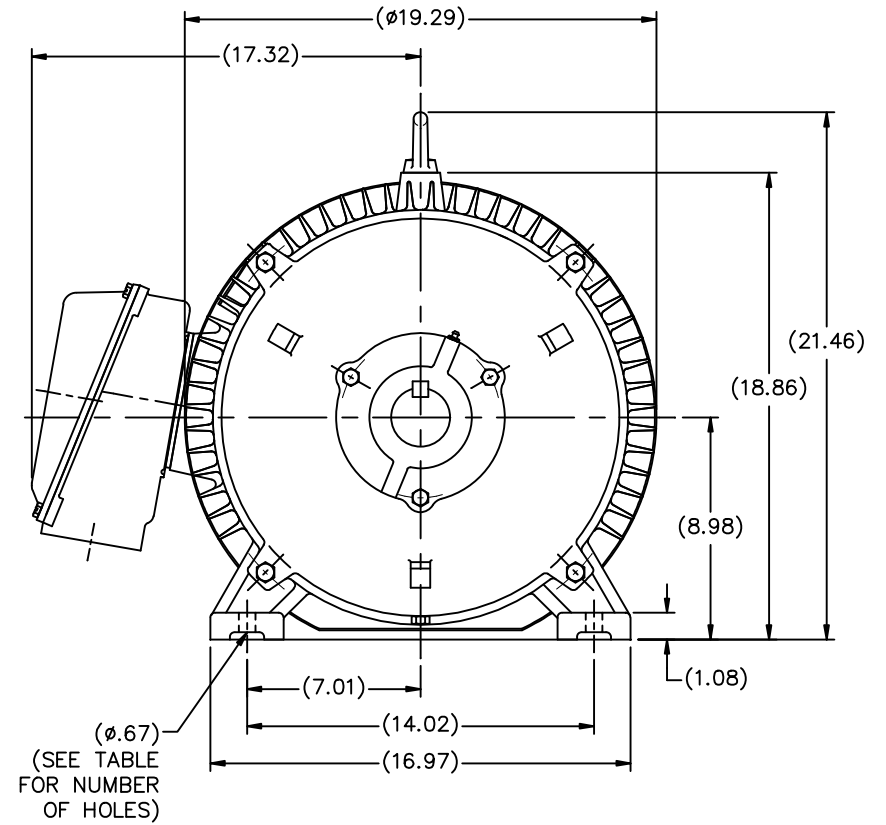
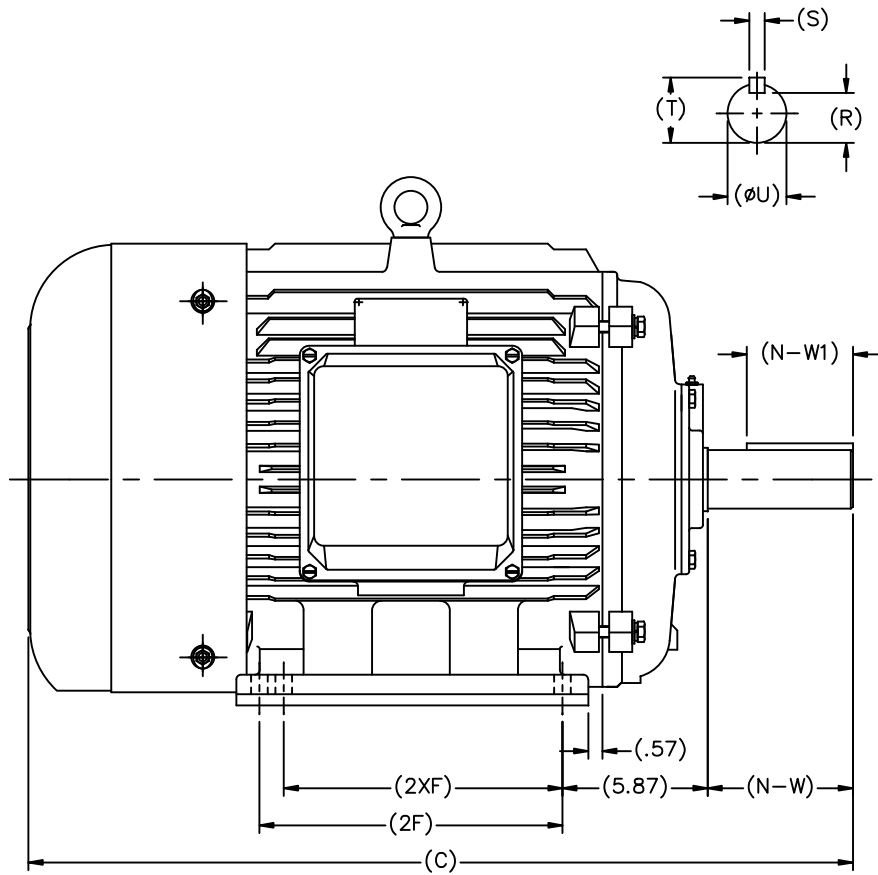
**RegalRexnord**

### Nameplate Specifications

|                        |                   |                            |                             |
|------------------------|-------------------|----------------------------|-----------------------------|
| Phase                  | 3                 | Output HP                  | 50 & 40 Hp                  |
| Output KW              | 37.0 & 30.0 kW    | Voltage                    | 230/460 & 190/380 V         |
| Speed                  | 1190 & 990 rpm    | Service Factor             | 1.15 & 1.15                 |
| Frame                  | 365T              | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection     | Efficiency                 | 94.1 & 93.6 %               |
| Ambient Temperature    | 40 °C             | Frequency                  | 60 & 50 Hz                  |
| Current                | 126/63 & 122/61 A | Power Factor               | 79                          |
| Duty                   | Continuous        | Insulation Class           | F                           |
| Design Code            | B                 | KVA Code                   | G                           |
| 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                 | 6                           | Rotation           | Reversible      |
| Resistance Main       | .12 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     | 32.32 in        |
| Shaft Diameter        | 2.375 in                    | Shaft Extension    | 3.75 in         |
| Assembly/Box Mounting | F1/F2 Capable               |                    |                 |
| Outline Drawing       | SS622180ME                  | Connection Drawing | 00417203ME      |

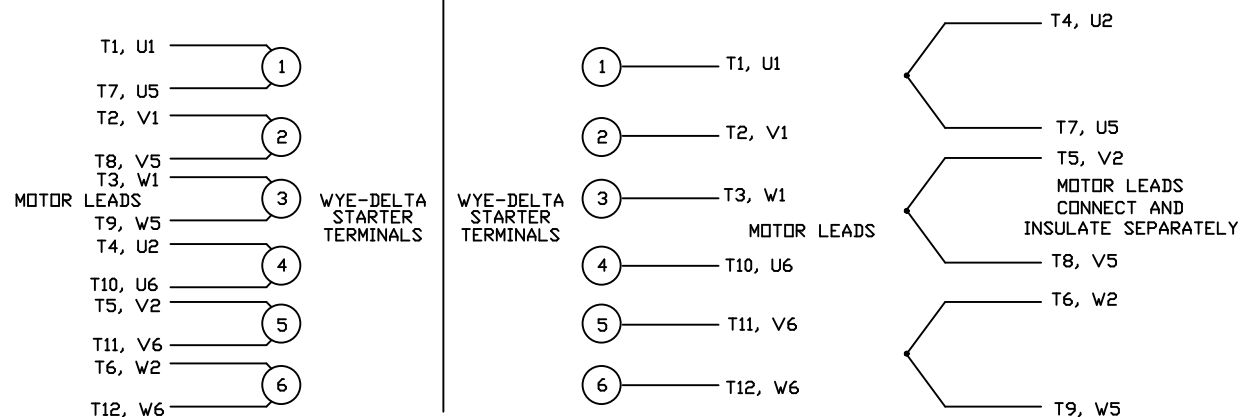


|                                                                                                                                                                                                                                    |       |       |       |       |      |      |      |      |      |      |                                |                     |                                                                                       |  |                      |      |             |         |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|--------------------------------|---------------------|---------------------------------------------------------------------------------------|--|----------------------|------|-------------|---------|--------|
|                                                                                                                                                                                                                                    |       |       |       |       |      |      |      |      |      |      | TOLERANCES<br>UNLESS SPECIFIED |                     |  |  | 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<br>360 FR. - TEFC - (REDESIGNED)                                        |  | SCALE 1=5            |      |             |         |        |
| NT365TS-2                                                                                                                                                                                                                          | 31.18 | 12.24 | 11.26 | 6     |      |      |      |      |      |      | .XXX                           | ±.005               |                                                                                       |  | 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 HEBEI            |      |             |         |        |
| NT365T-4, 6                                                                                                                                                                                                                        | 33.31 | 12.24 | 11.26 | 6     |      |      |      |      |      |      | NO. REVISION                   |                     |                                                                                       |  | BY & DATE            | CHK  | ANG         | ±7°30"  | FINISH |
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|                                                                                                                                                                                                                                    |       |       |       |       |      |      |      |      |      |      | DIST                           |                     |                                                                                       |  |                      | B    | SS622180ME  |         | 1      |
| FRAME                                                                                                                                                                                                                              | C     | 2F    | 2XF   | HOLES | N-W  | N-W1 | ØU   | R    | S    | T    |                                |                     |                                                                                       |  |                      |      |             |         |        |

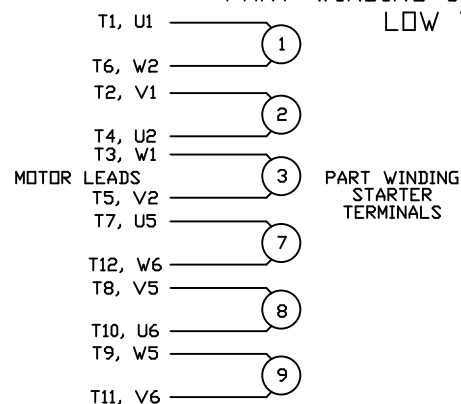
## WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

## LOW VOLTAGE CONNECTION

## HIGH VOLTAGE CONNECTION



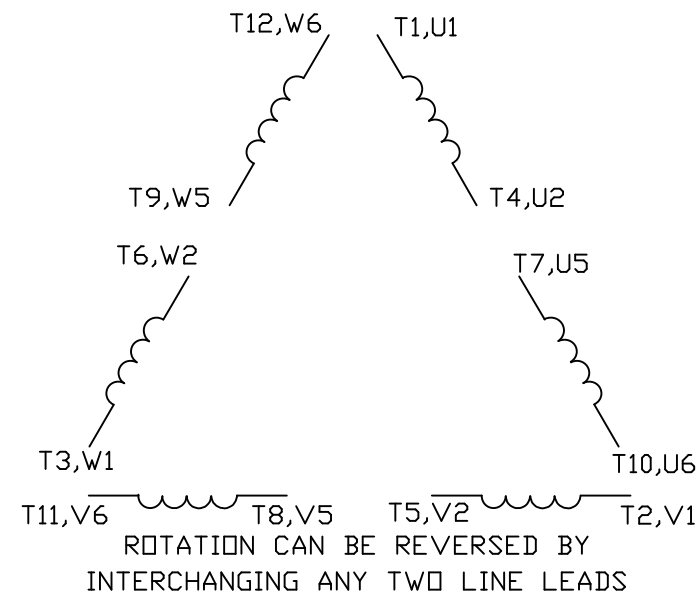
REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

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.

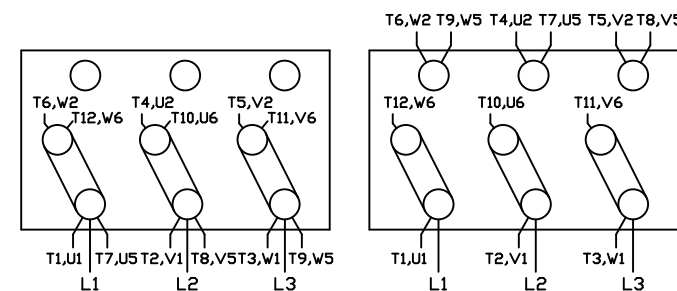
## LINE LEADS



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°



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#: 365TTFC6087 AA  
 CONN. DIAGRAM: 00417203ME  
 OUTLINE: SS622180ME

WINDING#: T18306021 NONE 3  
 ASSEMBLY: F1/F2 CAPABLE

## TYPICAL MOTOR PERFORMANCE DATA

| HP    | KW    | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-------|-----------|----------|-------|-----------|----------|--------|
| 50&40 | 37&30 | 1200      | 1190&990 | 365T  | TEFC      | G        | B      |

| PH | Hz    | VOLTS               | FL AMPS           | START TYPE         | DUTY           | INSL | S.F       | AMB°C | ELEVATION |
|----|-------|---------------------|-------------------|--------------------|----------------|------|-----------|-------|-----------|
| 3  | 60/50 | 230/460#190/<br>380 | 126/63&122/6<br>1 | ACROSS THE<br>LINE | CONTINUOU<br>S | F2   | 1.15/1.15 | 40    | 3300      |

|                             |                    |                    |          |                 |              |
|-----------------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD EFF:<br>94.1&93.6 | 3/4 LOAD EFF: 94.1 | 1/2 LOAD EFF: 93.6 | GTD. EFF | ELEC. TYPE      | NO LOAD AMPS |
| FULL LOAD PF:<br>79&79.5    | 3/4 LOAD PF: 74.5  | 1/2 LOAD PF: 64.5  | 93       | SQ CAGE IND RUN | 52 / 26      |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE   | B.D. TORQUE   | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 221 LB-FT   | 722 / 361         | 450 LB-FT 204 | 590 LB-FT 267 | 75          |

| SOUND PRESSURE<br>@ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS<br>/HOUR | APPROX. MOTOR<br>WGT |
|---------------------------|-------------|------------|-----------|-----------------|-----------------|----------------------|
| 65 dBA                    | 75 dBA      | - LB-FT^2  | - LB-FT^2 | 20 SEC.         | 2               | - LBS.               |

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

| DE BRACKET<br>TYPE | ODE BRACKET<br>TYPE | MOUNT<br>TYPE | ORIENTATION | SEVERE<br>DUTY | HAZARDOUS<br>LOCATION | DRIP<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 | T          | 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 |
| *<br>N<br>O<br>T<br>E<br>S<br>* | BRAKE: NONE NONE           |
|                                 | NONE P/N NONE              |
|                                 | NONE NONE                  |
|                                 | NONE FT-LB NONE V NONE Hz  |

DATE: 06/22/2017 12:40:12 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

## Data Sheet

Date: 19-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



365TTF6087

Submittal

Data @ 460 V

## Motor Load Data

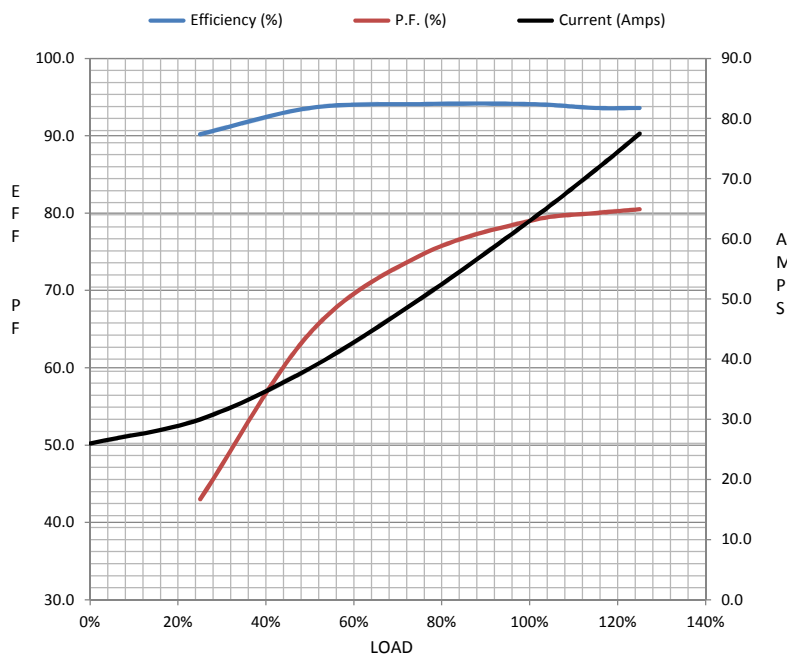
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 26.0 | 30.0 | 38.5 | 50.0 | 63.0 | 71.5  | 77.5 | 361  |  |
| Torque (ft-lb) | 0.00 | 55.0 | 110  | 165  | 221  | 254   | 276  | 450  |  |
| RPM            | 1200 | 1198 | 1196 | 1192 | 1190 | 1,188 | 1187 | 0    |  |
| Efficiency (%) |      | 90.2 | 93.6 | 94.1 | 94.1 | 93.6  | 93.6 |      |  |
| P.F. (%)       | 4.5  | 43.0 | 64.5 | 74.5 | 79.0 | 80.0  | 80.5 | 38.0 |  |

## Motor Speed Data

|                | LR  | Pull-Up | BD   | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM)    | 0   | 600     | 1150 | 1190  | 1200 |
| Current (Amps) | 361 | 325     | 225  | 63.0  | 26.0 |
| Torque (ft-lb) | 450 | 400     | 590  | 221   | 0.00 |

## Information Block

|                             |                  |        |                    |        |
|-----------------------------|------------------|--------|--------------------|--------|
| HP                          | 50.0             |        |                    |        |
| Sync. RPM                   | 1200             |        |                    |        |
| Frame                       | 365              |        |                    |        |
| Enclosure                   | TEFC             |        |                    |        |
| Construction                | TFC              |        |                    |        |
| Voltage                     | 230/460#190/38(V |        |                    |        |
| Frequency                   | 60               |        | Hz                 |        |
| Design                      | B                |        |                    |        |
| 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 <sup>2</sup> | 0.00             |        | Lb-Ft <sup>2</sup> |        |
| Ref Wdg                     | T18306021 NONE   |        |                    |        |
| Sound Pressure @ 1M         | 65               |        | dBA                |        |
| VFD Rating                  | NONE             |        |                    |        |
| Outline Dwg                 | SS622180ME       |        |                    |        |
| Conn. Diag                  | 00417203ME       |        |                    |        |
| 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

