

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 364TSTDCA6001

Catalog No: U1782

General Purpose Motor, 75 & 60 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 200/400 V, 3600 & 3000 RPM,
364TS Frame, DP

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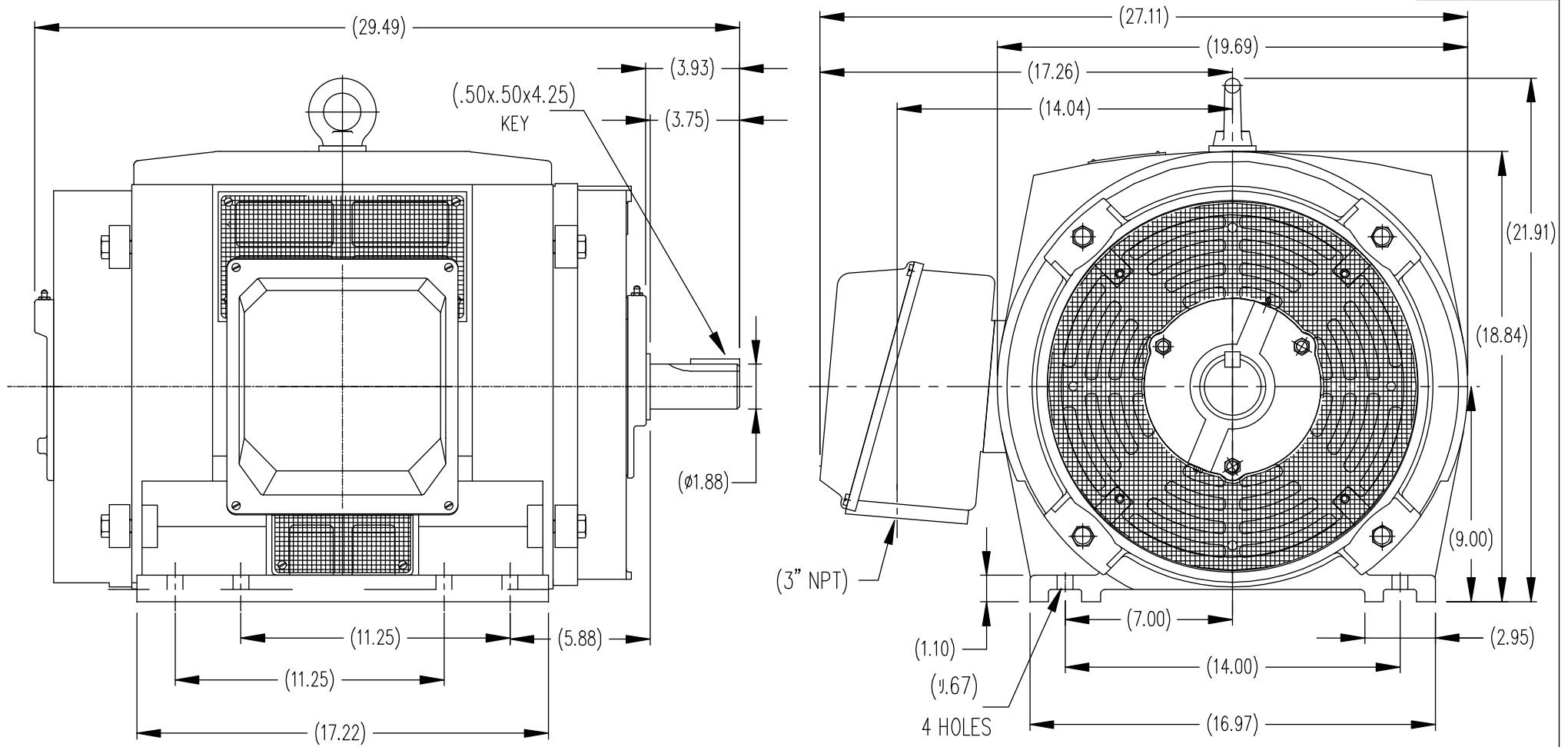
RegalRexnord


Nameplate Specifications

| | | | |
|------------------------|-----------------------|----------------------------|-------------------------|
| Phase | 3 | Output HP | 75 & 60 Hp |
| Output KW | 56.0 & 45.0 kW | Voltage | 208-230/460 & 200/400 V |
| Speed | 3575 & 2965 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 364TS | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 93.6 & 93.6 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 190-170/85 & 192/96 A | Power Factor | 88.5 |
| Duty | Continuous | Insulation Class | F |
| Design Code | B | KVA Code | F |
| Drive End Bearing Size | 6314 | Opp Drive End Bearing Size | 6314 |
| UL | Recognized | CSA | Y |
| CE | Y | IP Code | 12 |
| 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 | 26.02 in |
| Shaft Diameter | 1.875 in | Shaft Extension | 3.75 in |
| Assembly/Box Mounting | F1 Only | | |
| Outline Drawing | SS622388 | Connection Drawing | 004172-01ME |

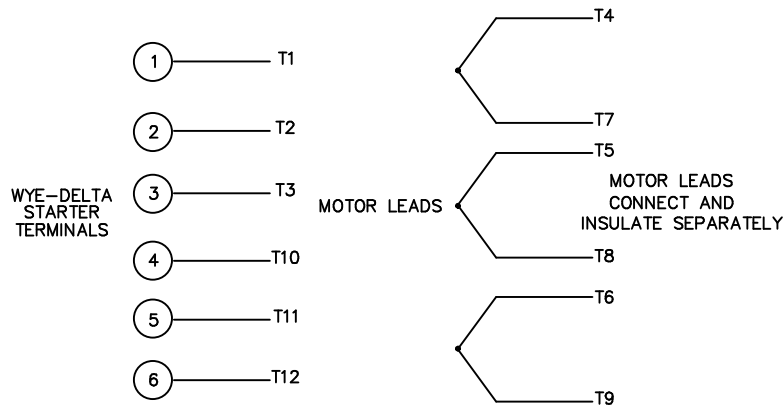
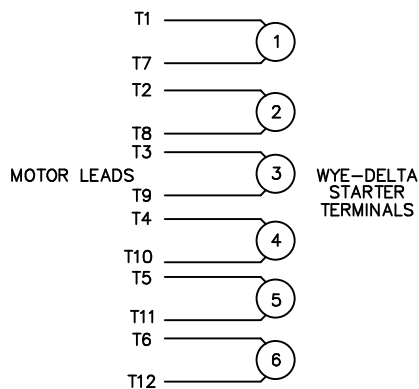


| | | | | | | | | |
|--|----------|-----------------------------|--------|---|----------------------|------------|----------------------|------|
| | | TOLERANCES UNLESS SPECIFIED | |  REGAL REGAL-BELOIT CORPORATION | DRAWN MOL 12-15-2012 | | | |
| | | DEC. | INCHES | | CHK MOL 12-15-2012 | | | |
| | | .X | ±.1 | | APPD | | | |
| | | .XX | ±.03 | | SCALE 1=1 | | | |
| | | .XXX | ±.005 | | REF SS622171 | | | |
| | | .XXXX | ±.0005 | MAT'L. | FMF U1782 | | | |
| NO. | REVISION | BY & DATE | CHK | ANG | FINISH | PREV HEBEI | | |
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| | | | DIST | | | | | |

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

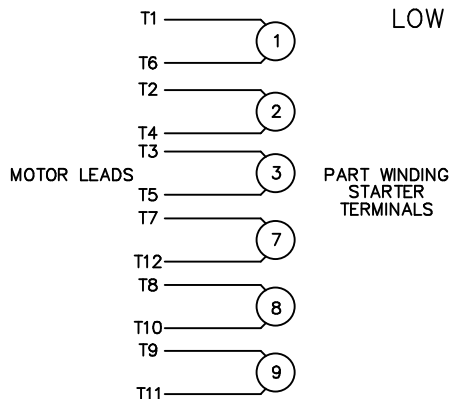
LOW VOLTAGE CONNECTION

HIGH VOLTAGE CONNECTION



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

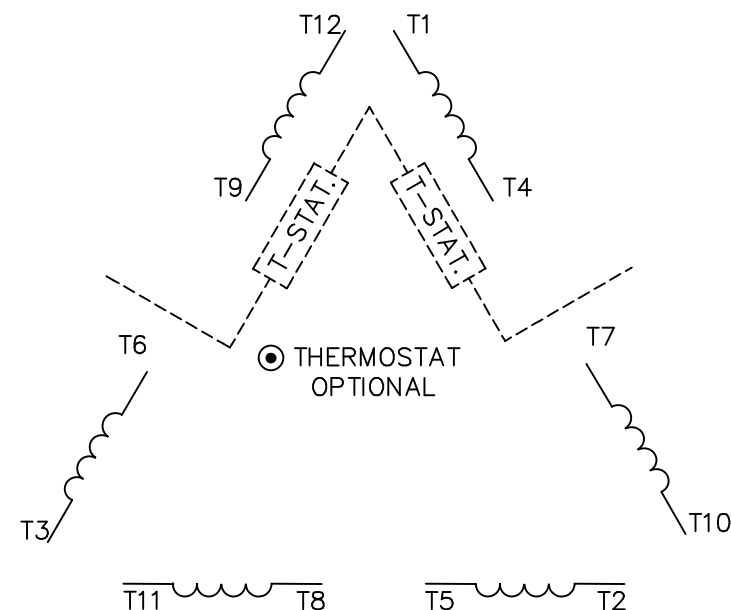
PART WINDING START USABLE ON 4 & 6 POLE MOTORS
LOW VOLTAGE CONNECTION ONLY



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
● RED LEADS OR P1, P2, FOR N/C THERMOSTAT

ACROSS THE LINE START & RUN

| | LINE 1 | LINE 2 | LINE 3 | JOIN & INSULATE SEPARATELY |
|-----------|-------------------|-------------------|-------------------|-------------------------------|
| HIGH VOLT | T1, T12 | T2, T10 | T3, T11 | (T4, T7) (T5, T8) (T6, T9) |
| LOW VOLT | T1, T6 T7, T12 | T2, T4 T8, T10 | T3, T5 T9, T11 | |

TOLERANCES UNLESS SPECIFIED
DEC. INCHES

| | |
|-------|--------|
| .X | ±.1 |
| .XX | ±.02 |
| .XXX | ±.005 |
| .XXXX | ±.0005 |
| ANG | ±7'30" |



TITLE DELTA - WYE CONNECTION DIAGRAM

| | |
|-------|----------------|
| DRAWN | RJW 07-19-2007 |
| CHK | ML 07-19-2007 |
| APPD | GK 07-19-2007 |
| SCALE | 1=1 |
| REF | MU61151 |
| FMF | |
| PREV | |

| NO. | REVISION | BY & DATE | CHK | ANG | FINISH |
|-----|----------|-----------|------|------------|----------------------|
| | | | RFP | 07-19-2007 | CAD FILE 004172-01ME |
| | | | DIST | LB | |

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RFP 07-19-2007

CAD FILE 004172-01ME

SIZE A DRAWING NO. 004172-01ME PAGE 1 OF 1 REV.



**P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311**

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: 004172-01ME
OUTLINE: SS622388
WINDING #: T18302022 DR 0 A

CUSTOMER PO#:
MODEL #: 364TSTDCA6001 AA
CUSTOMER PART #:
MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|-----------|-----------|-----------|-------|-----------|----------|--------|
| 75&60 | 56.0&45.0 | 3600 | 3575&2965 | 364TS | DP | F | B |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|-------|---------------------|-------------------|-----------------|------------|------|-----------|-------|
| 3 | 60/50 | 208-230/460&200/400 | 190-170/85&192/96 | ACROSS THE LINE | CONTINUOUS | F2 | 1.15/1.15 | 40 |

| FULL LOAD EFF: | 93.6&93.6 | 3/4 LOAD EFF: | 93 | 1/2 LOAD EFF: | 91.7 | GTD. EFF | ELEC. TYPE |
|----------------|-----------|---------------|------|---------------|------|----------|-----------------|
| FULL LOAD PF: | 88.5&90 | 3/4 LOAD PF: | 87.5 | 1/2 LOAD PF: | 83.5 | 92.3 | SQ CAGE IND RUN |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|-------------------|-----------------|-------------|
| 110.2 LB-FT | 1040 / 520 | 179.5 LB-FT 163 % | 258 LB-FT 234 % | 20.5 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-----------|-----------------|---------------|-------------------|
| 75 dBA | 85 dBA | - LB-FT^2 | - LB-FT^2 | 15 SEC. | 2 | 937 LBS. |

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

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

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | POLYREX EM | TS | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6314 | 6314 | | | | | | |

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

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

PREPARED BY: Dinesh
Suddula **DATE:**
02/18/2019 01:21:35 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

364TSTDCA6001

Date: 1/4/2019
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

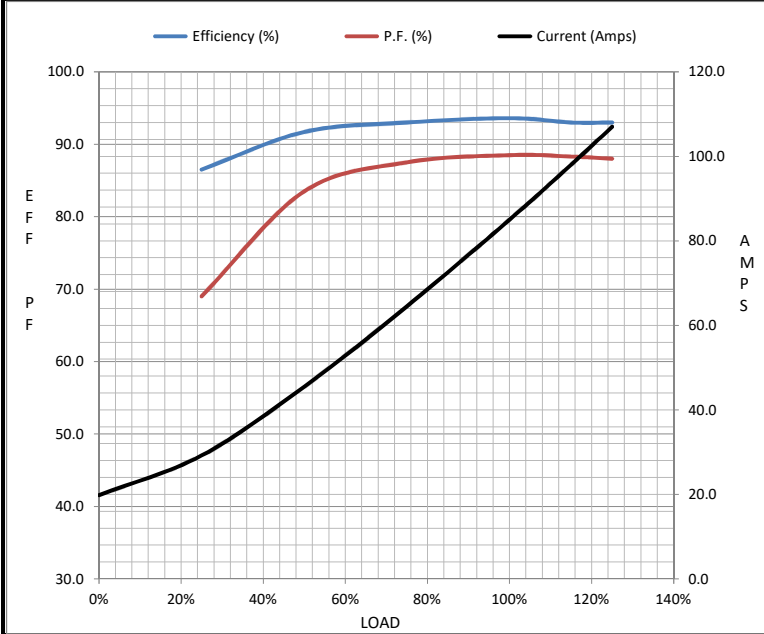
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|------|------|------|
| Current (Amps) | 19.8 | 29.2 | 45.5 | 64.5 | 85.0 | 98.0 | 107 | 520 |
| Torque (ft-lb) | 0.00 | 27.4 | 54.8 | 82.5 | 110 | 127 | 138 | 180 |
| RPM | 3600 | 3595 | 3590 | 3580 | 3575 | 3570 | 3565 | 0 |
| Efficiency (%) | | 86.5 | 91.7 | 93.0 | 93.6 | 93.0 | 93.0 | |
| P.F. (%) | 12.5 | 69.0 | 83.5 | 87.5 | 88.5 | 88.3 | 88.0 | 30.4 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|-----|---------|------|-------|------|
| Speed (RPM) | 0 | 2170 | 3445 | 3575 | 3600 |
| Current (Amps) | 520 | 458 | 285 | 85.0 | 19.8 |
| Torque (ft-lb) | 180 | 133 | 258 | 110 | 0.00 |

Information Block

| | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 75.0 | | | |
| Sync. RPM | 3600 | | | |
| Frame | 364 | | | |
| Enclosure | DP | | | |
| Construction | TDC | | | |
| Voltage | 208-230/460#200/400 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | F | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 22 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 0.00 Lb-Ft ² | | | |
| Ref Wdg | T18302022 DR | | | |
| Sound Pressure @ 1M | 75 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | SS622388 | | | |
| Conn. Diag | 004172-01ME | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 0 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |



Speed - Torque Curve

