

PRODUCT INFORMATION PACKET



Model No: 100961.00

Catalog No: 100961.00

General Purpose Motor, 0.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 48 Frame, TEFC

Operational at 208-230/460 V @60HZ



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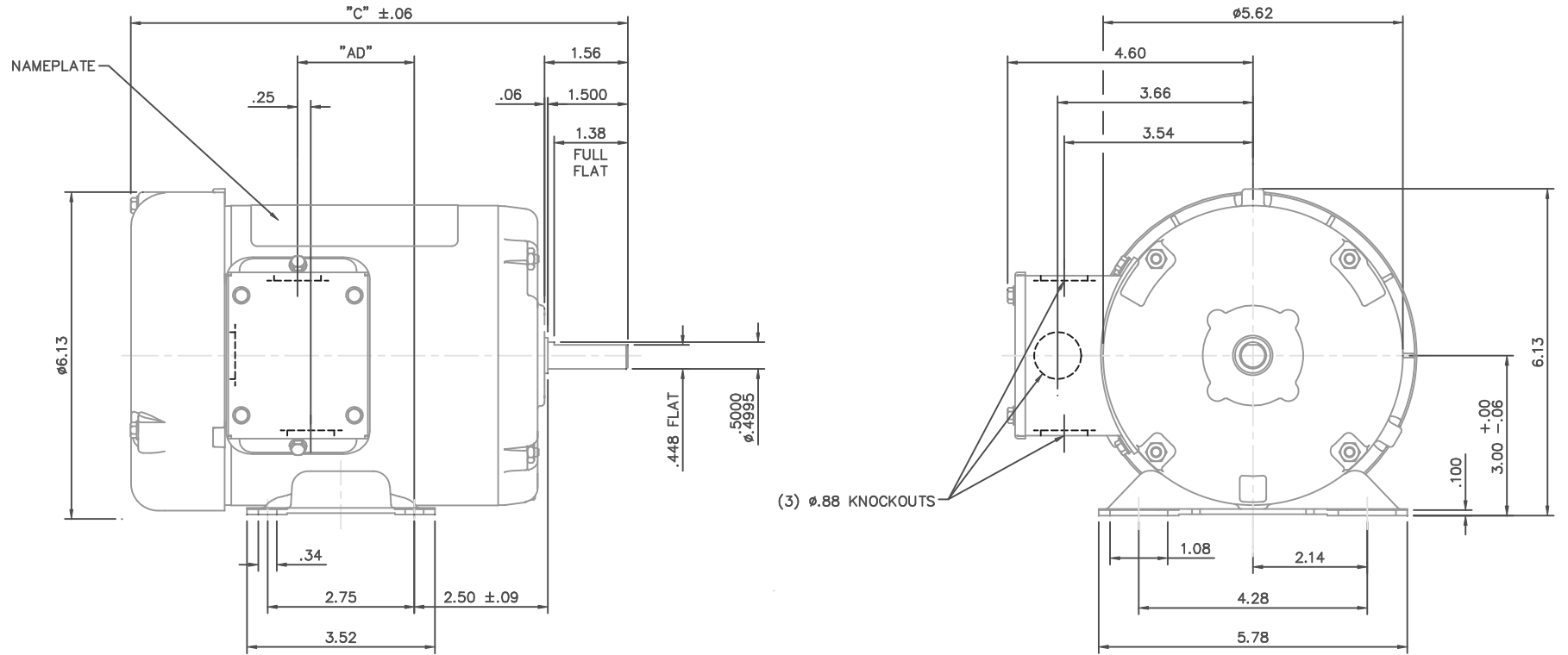


Nameplate Specifications

| | | | |
|------------------------|----------------------|----------------------------|------------------------------------|
| Phase | 3 | Output HP | 0.50 Hp |
| Output KW | 0.37 kW | Voltage | 230/460 V |
| Speed | 1725 rpm | Service Factor | 1.15 |
| Frame | 48 | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Efficiency | 73 % |
| Ambient Temperature | 40 °C | Frequency | 60 Hz |
| Current | 2.0/1.0 A | Power Factor | 62 |
| Duty | Continuous | Insulation Class | B |
| Design Code | B | KVA Code | L |
| Drive End Bearing Size | 6203 | Opp Drive End Bearing Size | 6203 |
| UL | Recognized | CSA | Y |
| CE | N | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 8.91 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | NEMA 48 | Overall Length | 9.56 in |
| Frame Length | 5.25 in | Shaft Diameter | 0.500 in |
| Shaft Extension | 1.5 in | Assembly/Box Mounting | F1 ONLY |
| Outline Drawing | 031634-525 | Connection Drawing | 005010.01 |



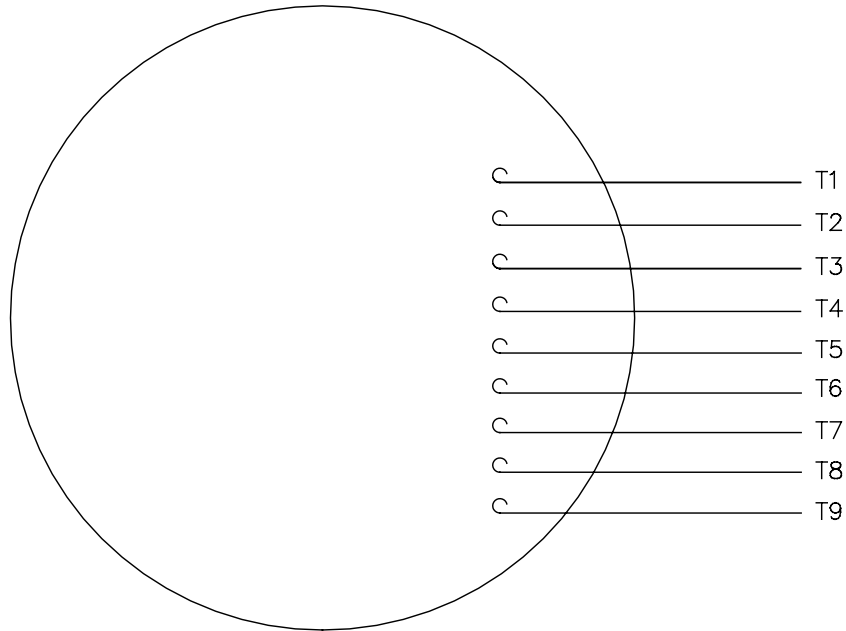
| DASH NO. | "C" | "AD" |
|----------|-------|------|
| 475 | 9.06 | 1.94 |
| 500 | 9.31 | 2.19 |
| 525 | 9.56 | 2.44 |
| 550 | 9.81 | 2.69 |
| 575 | 10.06 | 2.94 |
| 600 | 10.31 | 3.19 |
| 625 | 10.56 | 3.44 |
| 650 | 10.81 | 3.69 |
| 675 | 11.06 | 3.94 |

GASKETS THROUGHOUT

| | | | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | LEESON ELECTRIC CORPORATION | | | | | | |
|--|----------|-----------|---------|---------------------------------------|--------|-----------------------------|-----------|------------|---|--------|------|-------------|
| | | | | DEC. | INCHES | METRIC | DRAWN | PG 5/30/01 | TITLE | | | |
| | | | | .X | ±.1 | ±2.5 | APPR. | | OUTLINE -- 48 FRAME RIGID MOUNT -- TEFC | | | |
| | | | | .XX | ±.03 | ±.76 | R.F.P. | | MAT'L 3 PHASE | | | |
| | | | | .XXX | ±.005 | ±.127 | SCALE | 1=2 | | | | |
| NO. | REVISION | BY & DATE | CH'K'D. | .XXXX | ±.0005 | ±.0127 | FRACTIONS | ±1/64 | REF. 030391 | FINISH | REV. | DRAWING NO. |
| 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. | | | | | | | ANGLES | ±1/2" | FMF | | | 031634 |

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



| VOLTAGE | L1 | L2 | L3 | JOIN & INSULATE |
|---------|-------|-------|-------|-------------------------------|
| HIGH | T1 | T2 | T3 | (T4,T7) (T5,T8) (T6,T9) |
| LOW | T1,T7 | T2,T8 | T3,T9 | T4,T5,T6 |

| | | | | | | | | | | |
|--|-----------------------|--------------|-----|--------------------------------|----------|---|--|--------------------|--------------------------|-----------|
| | | | | TOLERANCES UNLESS SPECIFIED | | REGAL ™ Regal Beloit America, Inc. | | DRAWN RDW 04/12/02 | | |
| | | | | DEC. | INCHES | | | CHK | | |
| | | | | .X | ±.1 | TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR | | APPD | | |
| | | | | .XX | ±.01 | | | SCALE 1=1 | | |
| | | | | .XXX | ±.005 | | | REF FIG.2-51 | | |
| A | UPDATED TO REGAL LOGO | SAJ 06/26/15 | AJY | .XXXX | ±.0005 | MAT'L DECAL - 004014 | | FMF | | |
| NO. | REVISION | BY & DATE | CHK | ANG | ±1/2" | 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 | 04/12/02 | CAD FILE 00501001 | | SIZE A | DRAWING NO. 005010-01 | REV. A |
| | | | | DIST | BRF-NLV | | | | | |



**1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-377-8810**

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005010.01

CATALOG #: 100961.00

OUTLINE: 031634-525

MOUNTING: F1 ONLY

WINDING #: TE48415 FR 3 B

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-----|------|-----------|----------|-------|-----------|----------|--------|
| 1/2 | 0.37 | 1800 | 1725 | 48 | TEFC | L | B |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|----|-------------|---------|-----------------|------------|------|------|-------|
| 3 | 60 | 208-230/460 | 1.9-2/1 | ACROSS THE LINE | CONTINUOUS | B3 | 1.15 | 40 |

| FULL LOAD EFF: | 73 | 3/4 LOAD EFF: | 63.8 | 1/2 LOAD EFF: | 55.5 | GTD. EFF | | ELEC. TYPE | |
|----------------|----|---------------|------|---------------|------|----------|-----------------|------------|--|
| FULL LOAD PF: | 62 | 3/4 LOAD PF: | 56.2 | 1/2 LOAD PF: | 46 | 66 | SQ CAGE IND RUN | | |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B,D. TORQUE | F.L. RISE°C |
|-------------|-------------------|------------------|-----------------|-------------|
| 24 OZ-FT | 11.9 / 6 | 95.9 OZ-FT 400 % | 100 OZ-FT 417 % | - |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|---------------|-----------|-----------------|---------------|-------------------|
| 60 dBA | 70 dBA | 0.045 LB-FT^2 | 0 LB-FT^2 | 10 SEC. | 0 | 23 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 - LEESON (EPOXY) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|-------------|-------------|------------|-------------|--------------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | MULTEMP SRL | STANDARD 48 | NONE | NONE | 1144 STRESSPROOF (C-223) | ROLLED STEEL |
| 6203 | 6203 | | | | | | |

| 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 |

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



DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: 005190-03
 OUTLINE: SS622230
 WINDING: T22804030

CAT #: 171518.60

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC RPM | FL RPM | FRAME | ENCLOSURE | TYPE | KVA CODE | DESIGN |
|-----|-----|----------|--------|-------|-----------|------|----------|--------|
| 350 | 261 | 1800 | 1785 | 447T | DP | TDC | F | B |

| PH | HZ | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB | ELEV. |
|----|-------|---------|---------|--------------------|------|------|------|-----|-------|
| 3 | 60/50 | 460#380 | 400&415 | START D RUN OR INV | CONT | F | 1.15 | 40 | 3300 |

| F.L. EFF | 95.8 | 3/4 LD EFF | 96.2 | 1/2 LD EFF | 95.8 | GTD EFF | 95.4 | ELECT. TYPE |
|----------|------|------------|------|------------|------|---------|------|-------------------|
| F.L. PF | 85.5 | 3/4 LD PF | 84.0 | 1/2 LD PF | 79.0 | | | SQ CAGE INV RATED |

| F.L. TORQUE | LR AMPS @ 460 V | L.R. TORQUE | B.D. TORQUE | F.L. RISE (°C) |
|-------------|-----------------|------------------|------------------|----------------|
| 1,029 LB-FT | 2,400 | 1,740 LB-FT 169% | 2,275 LB-FT 221% | 65 |

| PRESSURE @ 3 | POWER | ROTOR WK² | MAX. LOAD WK² | SAFE STALL TIME | STARTS/HOUR | MOTOR WGT |
|--------------|--------|-------------|---------------|-----------------|-------------|-----------|
| 85 dBA | 94 dBA | 0.00 LB-FT² | 0 LB-FT² | 15 SEC. | 1 | 0 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 | NO | NONE | NO | NONE | IN - LEESON WATTS |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | 1045 HOT ROLLED (C-204) | CAST IRON |
| 6318 | 6314 | | | | | | |

| THERMOSTATS | PROTECTORS | WDG RTD's | BRG RTD's | THERMISTORS | CONTROL | SPACE HEATERS |
|--------------|------------|-----------|-----------|-------------|---------|---------------|
| TSTATS (N/C) | NOT | NONE | NONE | NONE | FALSE | NA |

| R1 (ohms/ph) | R2 (ohms/ph) | X1 (ohms/ph) | X2 (ohms/ph) | Xm (ohms/ph) | VIBRATION (in/sec) | FLOAT |
|--------------|--------------|--------------|--------------|--------------|--------------------|-------|
| 0 | 0 | 0 | 0 | 0 | 0.080 | ODE |

| | | |
|---------------------------------|---|--|
| * N O T E S * | INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: NONE | |
| | ENCODER: NONE NONE NONE | |
| | NONE PPR | |
| | BRAKE: NONE NONE NONE | |
| | FT-LB: NA VOLTAGE: NONE HZ: | |

| | |
|-----------------|-----------------------|
| DATE: 1/17/2018 | UL: Y-(LEESON UL REC) |
|-----------------|-----------------------|