PRODUCT INFORMATION PACKET

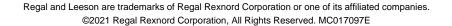


Model No: 103020.00 Catalog No: 103020.00

0.50 HP General Purpose Motor, 3 phase, 1800 RPM, 208-230/460 V, 56 Frame, TEFC

General Purpose Motors









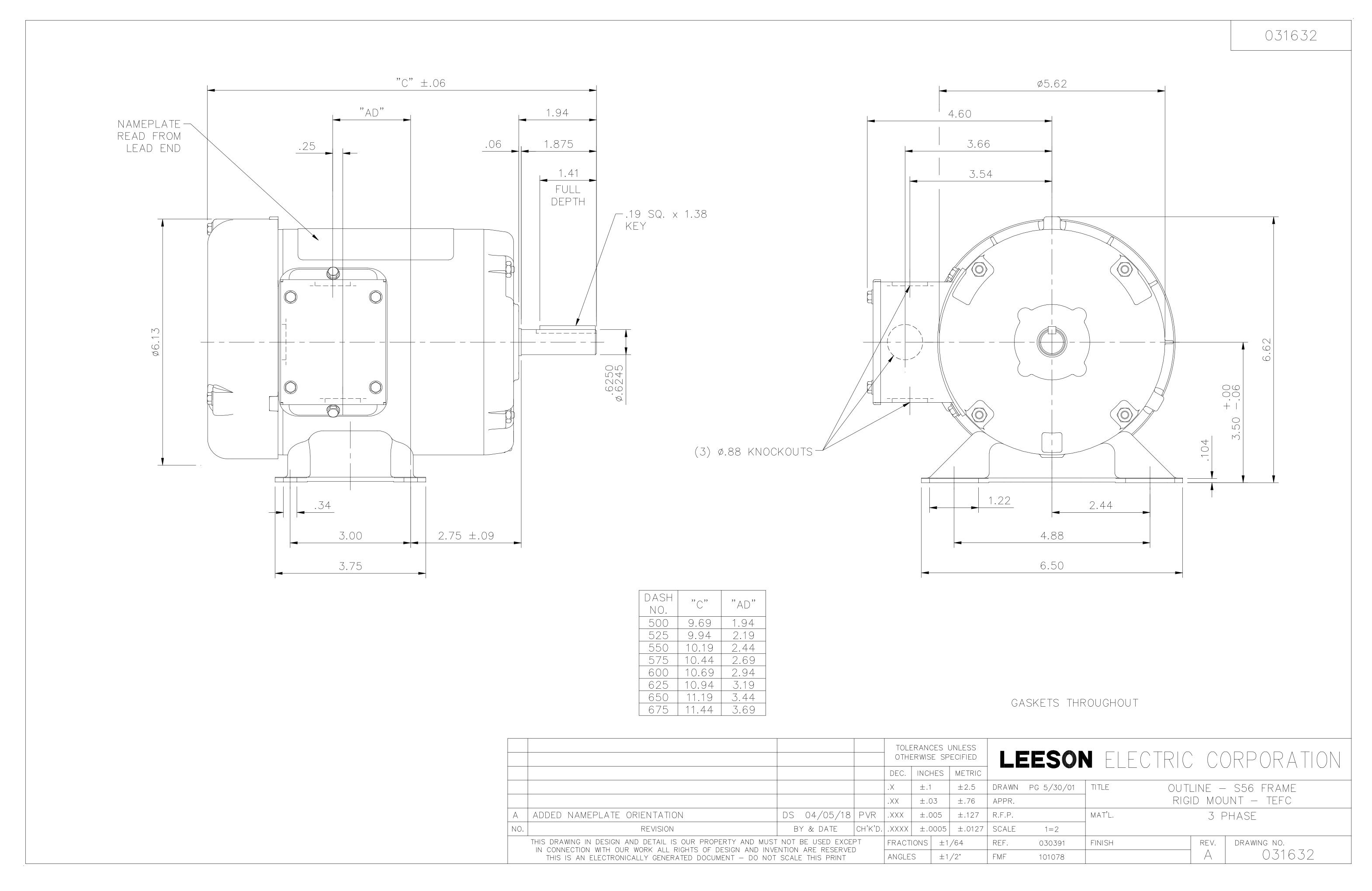
Nameplate Specifications

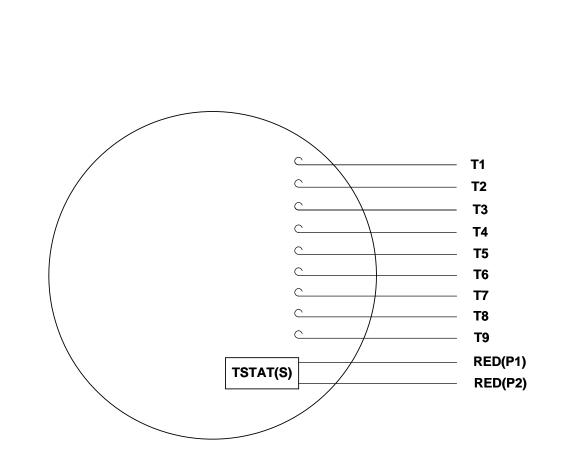
| Output HP | 0.50 Hp | Output KW | 0.37 kW |
|------------------------|-------------------|----------------------------|-----------------------------|
| Frequency | 60 Hz | Voltage | 208-230/460 V |
| Current | 1.8-1.8/0.90 A | Speed | 1725 rpm |
| Service Factor | 1.25 | Phase | 3 |
| Efficiency | 77 % | Power Factor | 69 |
| Duty | Continuous | Insulation Class | F |
| Design Code | NO DESIGN CODE | KVA Code | М |
| Frame | S56 | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | Thermostats (N/C) | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6203 | Opp Drive End Bearing Size | 6203 |
| UL | Recognized | CSA | Υ |
| CE | Υ | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

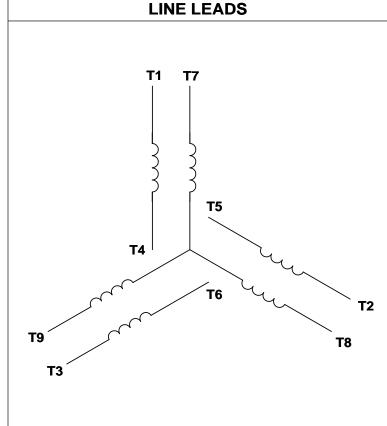
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
|-----------------------|-----------------------------|-----------------------|-----------------|
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 9.166 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | NEMA 56 | Overall Length | 10.69 in |
| Frame Length | 6.00 in | Shaft Diameter | 0.625 in |
| Shaft Extension | 1.88 in | Assembly/Box Mounting | F1 ONLY |
| Connection Drawing | 005010.20 | Outline Drawing | 031632-600 |

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VIEW FROM OUTSIDE OF MOTOR AT SWITCH END. Uncontrolled Copy



| VOLTAGE | L1 | L2 | L3 | JOIN & INSULATE |
|---------|-------|-------|-------|-------------------------------|
| HIGH | T1 | T2 | Т3 | (T4,T7) (T5,T8) (T6,T9) |
| LOW | T1,T7 | T2,T8 | T3,T9 | T4,T5,T6 |

| DRAWING REVISION | REVISION BY | DATE |
|------------------|-------------|------------|
| G | MVG | 04/05/2017 |
| ECO | APPROVED BY | DATE |
| ECO-0121253 | SM | 04/05/2017 |
| ECO DESCRIPTION | | |

ADDED P1 & P2 FOR TSTAT

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| TOLERAN | ICES UN | NLESS | |
|---------|--------------|---------------|--------------|
| OTHERW | ISE SPE | CIFIED: | |
| DEC. | INCH | mm | ANGLE |
| | ±0.1 | [±2.5] | ±0.5° |
| .XX | ±0.01 | $[\pm 0.25]$ | |
| .XXX | ± 0.005 | [±0.127] | |
| .XXXX ± | 0.0005 | [±0.0127] | |
| REMOVE | BURRS | & BREAK S | HARP |
| EDGES: | .003/.01 | 5 [.076/.381] | X 45° |
| CORNER | FILLETS | S: R.02 [.51 |] |
| MACHINE | D SURF | ACES: 125 | 3.2/ |
| | | INCH ∨ | $mm \bigvee$ |
| mm SHO\ | NN IN [I | BRACKETS] | |

| <u> </u> | DRAWN BY DBT 12/16/97 DATE | - \ | REGAL | R | egal Beloit A | me | rica, Inc. | |
|----------|----------------------------------|------|------------|-------|----------------|------|----------------|--------|
| | APPROVED BY KH 12/17/97 DATE | DES | COI | | DIAGRAM | | | _ |
| | | | | 31 | PHASE WITH P | ROTE | CTOR | |
| | REFERENCE | MAT | ERIAL | | | | PROCESS/FINISH | |
| , | | D | ECAL - 004 | 4014 | (TSTAT) - 0805 | 82 | STOCK | |
| / | THIRD ANGLE | SIZI | DRAWING | NUMBI | ER | | | SHEET |
| | PROJECTION | ⊐∣A | <u> </u> | | 0050102 | 20 | | 1 OF 1 |



CERTIFICATION DATA SHEET

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

CATALOG #: 103020.00

CONN. DIAGRAM: 005010.20

OUTLINE: 031632-600 MOUNTING: F1 ONLY

WINDING #: TE48453 FR 3 F

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---------|-----------|-----------|-----------|-------|-----------|----------|----------------|
| 1/2&1/2 | 0.37&0.37 | 1800 | 1725&1425 | S56 | TEFC | М | NO DESIGN CODE |

| РН | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | амв°С |
|----|-------|---------------------|----------------|-----------------|------------|------|-----------|-------|
| 3 | 60/50 | 208-230/460&190/380 | 1.8-1.8/.9&2/1 | ACROSS THE LINE | CONTINUOUS | F3 | 1.25/1.25 | 40 |

| FULL LOAD EFF: | 77&77 | 3/4 LOAD EFF: | 73.8 | 1/2 LOAD EFF: | 66.9 | GTD. EFF | ELEC. TYPE |
|----------------|---------|---------------|------|---------------|------|----------|-----------------|
| FULL LOAD PF: | 69&74.7 | 3/4 LOAD PF: | 60.1 | 1/2 LOAD PF: | 47.9 | 0 | SQ CAGE IND RUN |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-----------------|-------------------|-------------------------|-----------------------|-------------|
| 24 OZ-FT | 12.6 / 6.3 | 91.4 OZ-FT 381 % | 98 oz-ft 408 % | 39 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|---------------|-----------|-----------------|------------------|----------------------|
| 0 dBA | 10 dBA | 0.053 LB-FT^2 | 0 LB-FT^2 | 10 SEC. | 0 | - 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 | GREEN - LEESON WATTSAVER |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT | FRAME | |
|----------|------|-------------|-------------|------------|-------------|--------------------------|--------------|--|
| DE | ODE | GREASE | SHAFITYPE | SPECIAL DE | SPECIAL ODE | MATERIAL | MATERIAL | |
| BALL | BALL | MULTEMP CDI | STANDARD 56 | NONE | NONE | 1144 CTDECCDDOOE (C 222) | ROLLED STEEL | |
| 6203 | 6203 | MULTEMP SRL | | | | 1144 STRESSPROOF (C-223) | | |

| | THERMO-PROTECTO | THERMICTORS | CONTROL | CDACE HEATERS | | | |
|--------------|-----------------|-------------|----------|---------------|---------|---------------|-------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | THERMISTORS | CONTROL | SPACE HEATERS | |
| TSTATS (N/C) | AUTOMATIC | NONE | NONE | NONE | FALSE | NONE | VOLTS |

INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE Ν **ENCODER:** NONE NONE NONE NONE PPR NONE Т **BRAKE:** NONE NONE P/N NONE NONE Ε NONE NONE FT-LB NONE V NONE Hz S

