

PRODUCT INFORMATION PACKET



Model No: 110052.00
Catalog No: 110052.00
1HP..1725RPM.56H.DP.230/460V.3PH.60HZ.CONT.NOT.40C.1.15SF.RESIL.
General Purpose Motors



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Nameplate Specifications

| | | | |
|------------------------|------------|----------------------------|---------------|
| Output HP | 1 Hp | Output KW | 0.75 kW |
| Frequency | 60 Hz | Voltage | 208-230/460 V |
| Current | 4.2/2.1 A | Speed | 1725 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 78.5 % | Power Factor | 58 |
| Duty | Continuous | Insulation Class | B |
| Design Code | B | KVA Code | K |
| Frame | 56 | Enclosure | Drip Proof |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6203 | Opp Drive End Bearing Size | 6203 |
| UL | Recognized | CSA | Y |
| CE | N | IP Code | 22 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-----------------------------|-----------------------|-----------------|
| Electrical Type | Squirrel Cage Induction Run | Starting Method | Across The Line |
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 19.48 Ohms | Mounting | Resilient Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | NEMA 56 | Overall Length | 11.32 in |
| Frame Length | 5.50 in | Shaft Diameter | 0.625 in |
| Shaft Extension | 1.88 in | Assembly/Box Mounting | F1 ONLY |
| Outline Drawing | 028551-550 | Connection Drawing | 005010.01 |

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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 Beloit America, Inc. | | DRAWN RDW 04/12/02 | | | | |
| | | | | DEC. | INCHES | | | CHK | | | | |
| | | | | .X | ±.1 | | | APPD | | | | |
| | | | | .XX | ±.01 | | | SCALE 1=1 | | | | |
| | | | | .XXX | ±.005 | TITLE | | 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 | DRAWING NO. | REV. |
| | | | | DIST | BRF-NLV | | | A | 005010-01 | | A | |



CERTIFICATION DATA SHEET

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

CATALOG #: 110052.00

CONN. DIAGRAM: 005010.01

OUTLINE: 028551-550

MOUNTING: F1 ONLY

WINDING #: T634195 DR 3 A

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|--------|
| 1 | 0.75 | 1800 | 1725 | 56 | DP | K | B |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|----|-------------|---------|-----------------|------------|------|------|-------|
| 3 | 60 | 208-230/460 | 4.2/2.1 | ACROSS THE LINE | CONTINUOUS | B4 | 1.15 | 40 |

| FULL LOAD EFF: | 78.5 | 3/4 LOAD EFF: | 74 | 1/2 LOAD EFF: | 69.3 | GTD. EFF | ELEC. TYPE |
|----------------|------|---------------|------|---------------|------|----------|-----------------|
| FULL LOAD PF: | 58 | 3/4 LOAD PF: | 48.2 | 1/2 LOAD PF: | 37.2 | 0 | SQ CAGE IND RUN |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|------------------|------------------|-------------|
| 3 LB-FT | 23.6 / 11.8 | 9.88 LB-FT 329 % | 12.3 LB-FT 410 % | - |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|--------------|-------------|-----------------|---------------|-------------------|
| 0 dBA | 10 dBA | 0.06 LB-FT^2 | 0.1 LB-FT^2 | 0 SEC. | 0 | 0 LBS. |

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

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

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|-------------|------------|-------------|--------------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | POLYREX EM | STANDARD 56 | 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 |

Data Sheet

Date: 1/18/2018

110052.00



Data @ 460 V

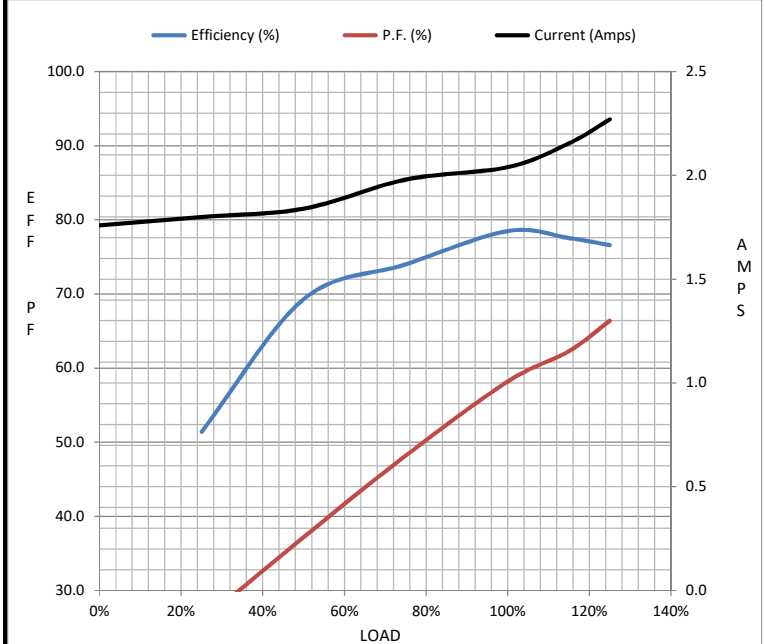
Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 1.76 | 1.80 | 1.84 | 1.98 | 2.04 | 2.16 | 2.27 | 11.0 |
| Torque (ft-lb) | 0.00 | 0.75 | 1.50 | 2.25 | 3.0 | 3.4 | 3.8 | 9.5 |
| RPM | 1800 | 1786 | 1773 | 1759 | 1743 | 1.736 | 1726 | 0 |
| Efficiency (%) | | 51.4 | 69.3 | 74.0 | 78.5 | 77.6 | 76.6 | |
| P.F. (%) | 12.8 | 25.8 | 37.2 | 48.2 | 58.2 | 62.3 | 66.4 | 0.0 |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 400 | 1200 | 1743 | 1800 |
| Current (Amps) | 11.0 | 10.1 | 6.6 | 2.04 | 1.76 |
| Torque (ft-lb) | 9.5 | 9.4 | 11.8 | 3.0 | 0.00 |

| Information Block | | | | |
|-----------------------------|-------------------------|--------|--------|--------|
| HP | 1.0 | | | |
| Sync. RPM | 1800 | | | |
| Frame | 140 | | | |
| Enclosure | DP | | | |
| Construction | NA | | | |
| Voltage | 208-230/460 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | K | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 60 °C | | | |
| Duty | CONT | | | |
| Ambient | 40 °C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk ² | 0.06 Lb-Ft ² | | | |
| Ref Wdg | T634195 DR | | | |
| Sound Pressure @ 1M | 999 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | 028551-550 | | | |
| Conn. Diag | 005010.01 | | | |
| 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

