

PRODUCT INFORMATION PACKET



Model No: 120925.00

Catalog No: 120925.00

Other Purpose Motor, 1.50 HP, 1 Ph, 60 Hz, 115/230 V, 3600 RPM, 143Y Frame, TEFC



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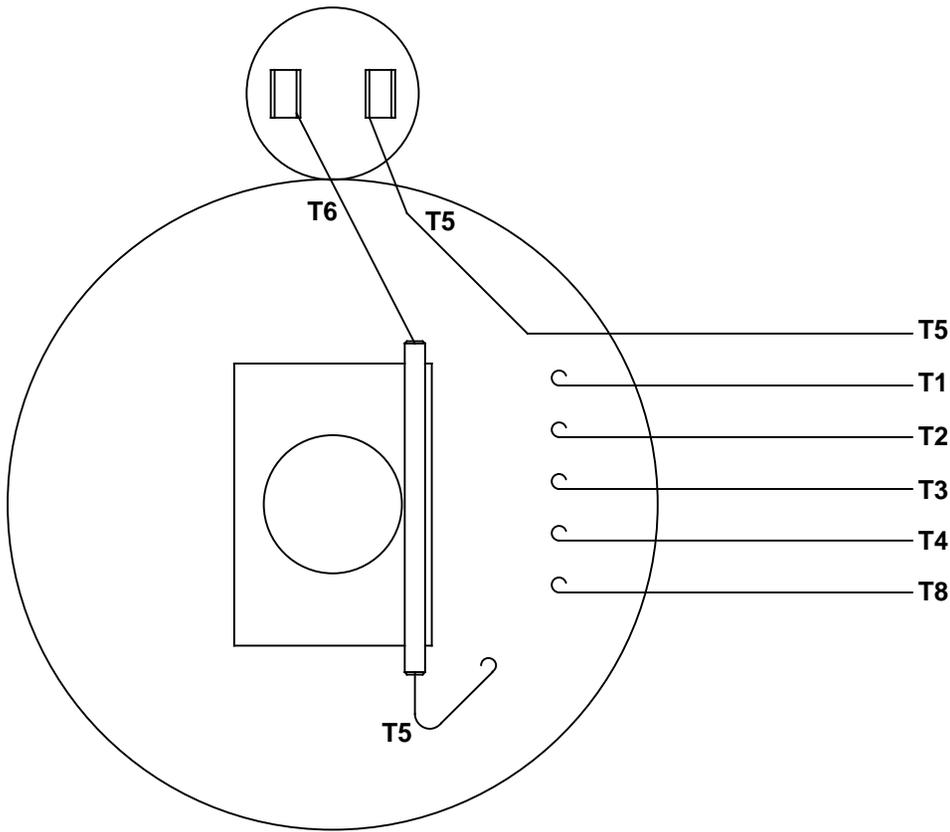
Nameplate Specifications

| | | | |
|------------------------|---------------|----------------------------|-----------------------------|
| Output HP | 1.50 Hp | Output KW | 1.1 kW |
| Frequency | 60 Hz | Voltage | 115/230 V |
| Current | 20.0/10.0 A | Speed | 3450 rpm |
| Service Factor | 1 | Phase | 1 |
| Efficiency | 69 % | Power Factor | 72 |
| Duty | Continuous | Insulation Class | B |
| Design Code | L | KVA Code | L |
| Frame | 143Y | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6205 | Opp Drive End Bearing Size | 6203 |
| UL | Recognized | CSA | Y |
| CE | N | IP Code | 43 |
| Number of Speeds | 1 | | |

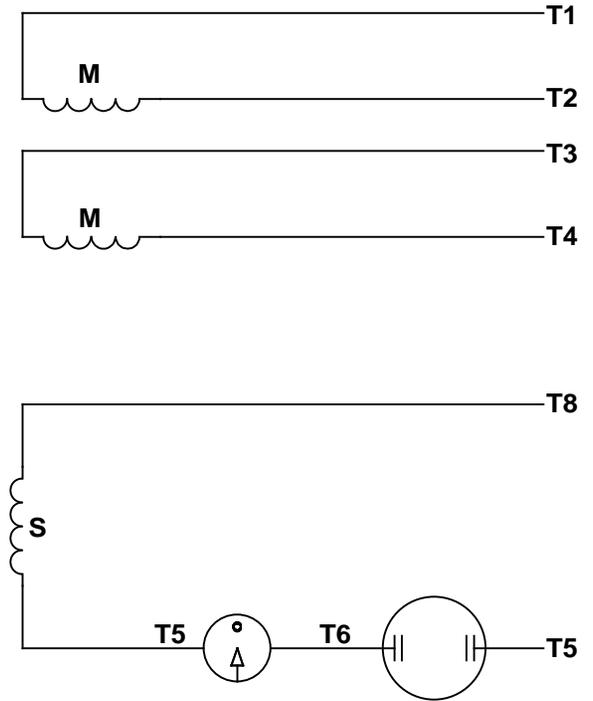
Technical Specifications

| | | | |
|-----------------------|-------------------------------|-----------------------|------------------------|
| Electrical Type | Capacitor Start Induction Run | Starting Method | Across The Line |
| Poles | 2 | Rotation | Fixed Counterclockwise |
| Resistance Main | .98 Ohms | Mounting | Round |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | Single Special Extension | Overall Length | 12.86 in |
| Frame Length | 7.50 in | Shaft Diameter | 0.750 in |
| Shaft Extension | 1.75 in | Assembly/Box Mounting | F1 ONLY |
| Outline Drawing | 028924-750B | Connection Drawing | 005005.01 |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



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| | ROTATION FACING LEAD END | L1 | L2 | JOIN |
|-----------|--------------------------|------------|------------|------------|
| HIGH VOLT | C.C.W. | T1 | T4, T5 | T2, T3, T8 |
| | C.W. | T1 | T4, T8 | T2, T3, T5 |
| LOW VOLT | C.C.W. | T1, T3, T8 | T2, T4, T5 | ----- |
| | C.W. | T1, T3, T5 | T2, T4, T8 | ----- |

| | | | | | | | |
|------------------------|---|--------------|-----------------------------|--------------|-------------------------------|---------------------------------------|--------------------|
| -- | REDRAWN IN SOLIDWORKS | VJB 02/16/11 | TOLERANCES UNLESS SPECIFIED | | | ELECTRIC MOTORS GEARMOTORS AND DRIVES | DRAWN ADH 08/06/73 |
| 27 | UPDATED TO CURRENT STANDARDS | DBT 05/27/97 | DEC | INCHES | | | CHK |
| 26 | ADDED PAGE 32 (114787) & PAGE 33 (114788) | KAZ 12/20/95 | PG | .X ±.1 | | | APPR JCW 03/09/79 |
| 25 | ADDED PAGE 31 | KAZ 04/19/95 | DL | .XX ±.01 | TITLE EXTERNAL WIRING DIAGRAM | | SCALE 1:1 |
| 24 | ADDED PAGES 29 & 30 | KMM 03/30/95 | DL | .XXX ±.005 | TYPE "C" W/O PROTECTOR | | REF FIG 2-23 C4A |
| 23 | ADDED PAGE 28 | KMM 01/27/95 | | .XXXX ±.0005 | MAT'L DECAL - 004012 | | FMF MGI-2.4B |
| NO | REVISION | BY & DATE | CHK | ANG ±1/2° | FINISH | | PAGE OF |
| THIRD ANGLE PROJECTION | | | RFP | PREV | SIZE | DRAWING NO | REV |
| | | | NETWORK FILE NAME 00500501 | | A | 005005-01 | -- |



CERTIFICATION DATA SHEET

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

CONN. DIAGRAM: 005005.01

CATALOG #: 120925.00

OUTLINE: 028924-750B

MOUNTING: F1 ONLY

WINDING #: C632245 FR 3 C

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-------|------|-----------|----------|-------|-----------|----------|--------|
| 1 1/2 | 1.12 | 3600 | 3450 | 143Y | TEFC | L | L |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|----|---------|-------|-----------------|------------|------|------|-------|
| 1 | 60 | 115/230 | 20/10 | ACROSS THE LINE | CONTINUOUS | B4 | 1.0 | 40 |

| FULL LOAD EFF: | 69 | 3/4 LOAD EFF: | 71.4 | 1/2 LOAD EFF: | 65.3 | GTD. EFF | | ELEC. TYPE | |
|----------------|----|---------------|------|---------------|------|----------|--|-------------------|--|
| FULL LOAD PF: | 72 | 3/4 LOAD PF: | 64 | 1/2 LOAD PF: | 52.9 | 64 | | CAP START IND RUN | |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|---------------|-----------------|-------------|
| 2.25 LB-FT | 120 / 60 | 6 LB-FT 267 % | 7.5 LB-FT 333 % | 65 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|---------------|-------------|-----------------|---------------|-------------------|
| 0 dBA | 10 dBA | 0.074 LB-FT^2 | 0.1 LB-FT^2 | 0 SEC. | 0 | 47 LBS. |

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

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

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|-------------|------------|-------------|--------------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | POLYREX EM | SGL SPL EXT | SPECIAL | NONE | 1144 STRESSPROOF (C-223) | ROLLED STEEL |
| 6205 | 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 |

LEESON ELECTRIC CORPORATION

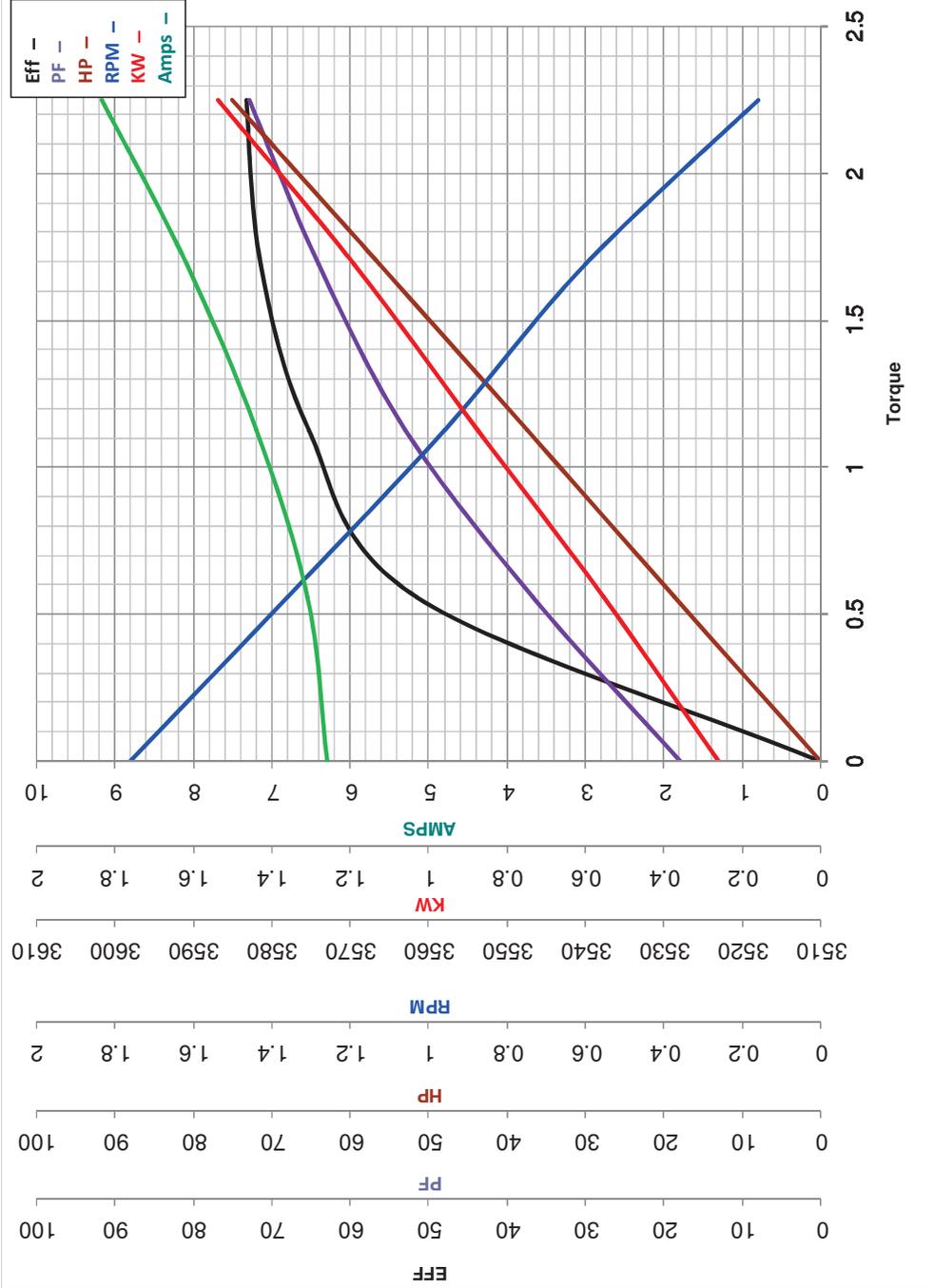
TYPICAL PERFORMANCE CURVE for AC MOTOR

Curve at 230 Volts 60 HZ 1.5 HP 1.50 HP PHASE 1
60 HZ 1.5 HP 115/230 VOLTS 60 HZ 3450 RPM



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| | | | | | | |
|-----------|--|-------------|-------|-----------|------------------|-------|
| FL TORQUE | | <u>2.25</u> | Lb.Ft | FL AMPS | <u>20/10</u> | Lb.Ft |
| BD TORQUE | | <u>7.5</u> | Lb.Ft | PU TORQUE | <u>5.5</u> | Lb.Ft |
| LR TORQUE | | <u>6</u> | Lb.Ft | LR AMPS | <u>60</u> | Lb.Ft |
| WINDING | | C632245-3 | | Date | <u>4/23/2018</u> | |