

PRODUCT INFORMATION PACKET

Model No: LM24802

Catalog No: LM24802

Agricultural Motors, TEFC, 5 HP, 1 Ph, 60 Hz, 208-230 V, 1755 RPM, 184T



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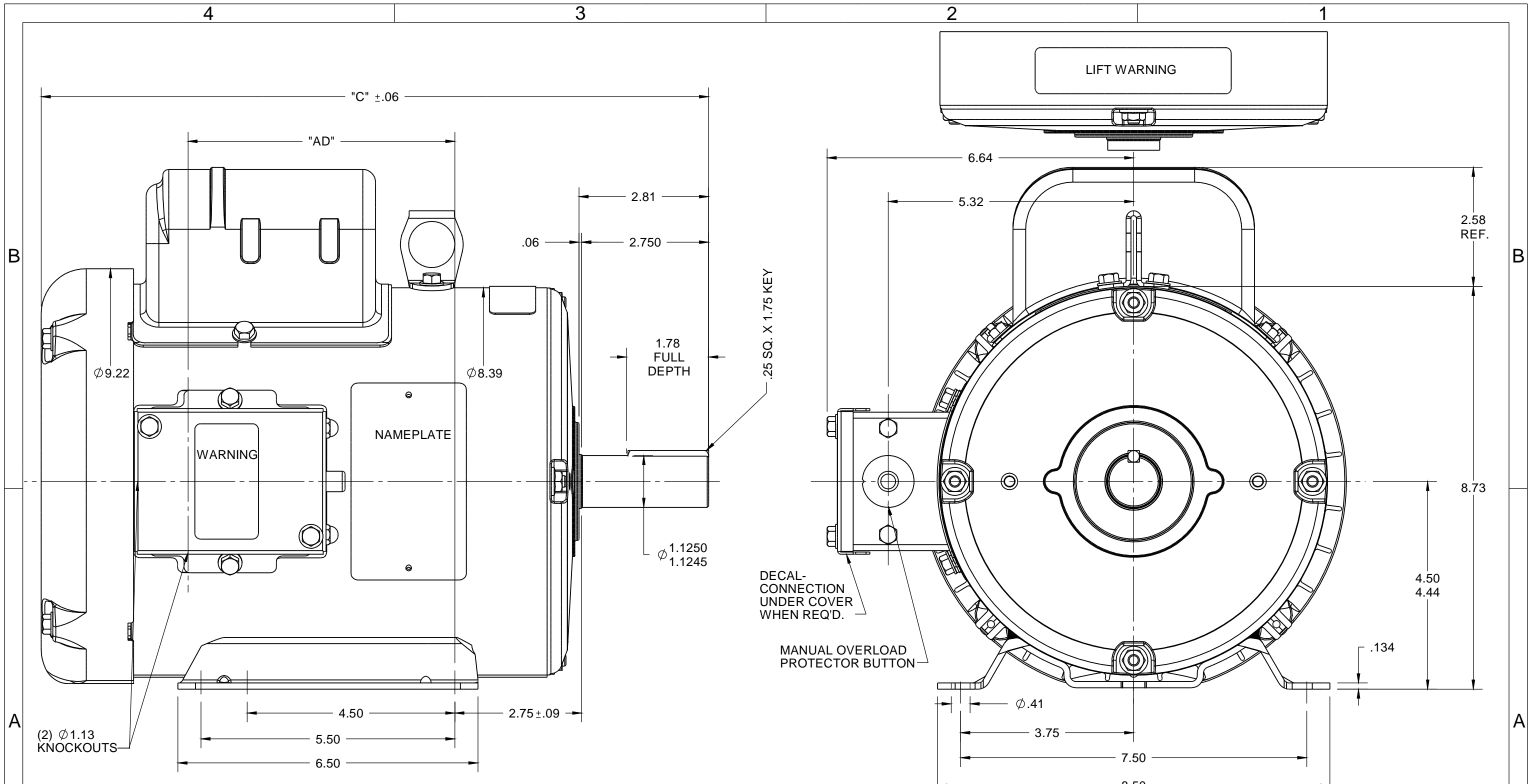
Nameplate Specifications

| | | | |
|------------------------|-----------------------------|----------------------------|-----------------------------|
| Output HP | 5 Hp | Output KW | 3.7 kW |
| Frequency | 60 Hz | Voltage | 208-230 V |
| Current | 23.8-21.8-21.8 A | Speed | 1755 rpm |
| Service Factor | 1.15 | Phase | 1 |
| Efficiency | 84 % | Power Factor | 89 |
| Duty | Continuous | Insulation Class | F |
| Design Code | NO DESIGN CODE | KVA Code | K |
| Frame | 184T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | Manual | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6206 | Opp Drive End Bearing Size | 6205 |
| UL | Recognized (Not Protector) | CSA | Y |
| CE | Y | IP Code | 43 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|-------------------------------|-----------------------|----------------------------|
| Electrical Type | Capacitor Start Capacitor Run | Starting Method | Across The Line |
| Poles | 4 | Rotation | Selective Counterclockwise |
| Resistance Main | .397 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | T | Overall Length | 17.46 in |
| Frame Length | 12.00 in | Shaft Diameter | 1.125 in |
| Shaft Extension | 2.75 in | Assembly/Box Mounting | F1 ONLY |
| Connection Drawing | 005056.03LN | Outline Drawing | 035482LN-1200 |

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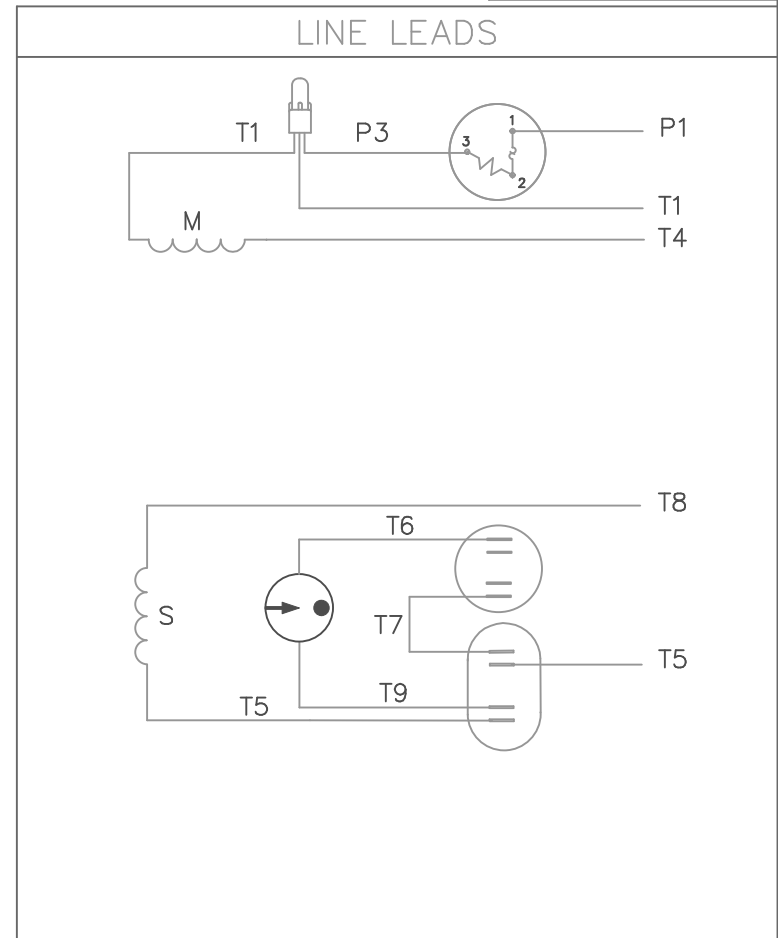
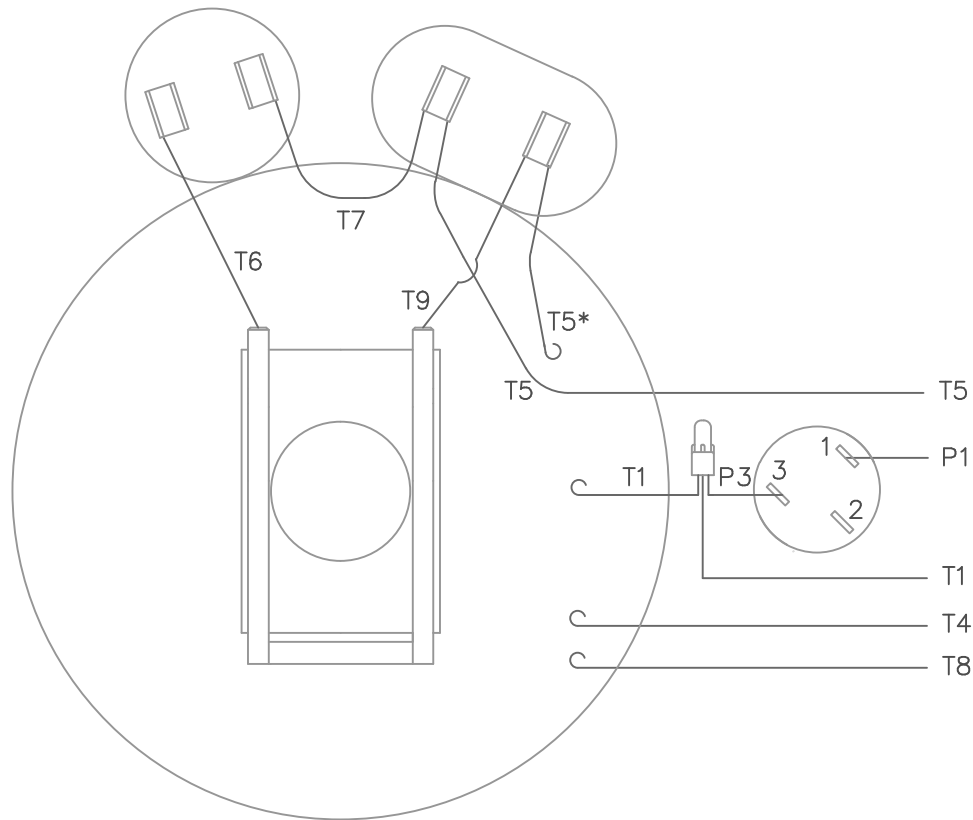


| DASH NO. | "C" | "AD" |
|----------|-------|------|
| 850 | 13.96 | 5.25 |
| 900 | 14.46 | 5.75 |
| 950 | 14.96 | 6.25 |
| 1000 | 15.46 | 6.75 |
| 1050 | 15.96 | 7.25 |
| 1100 | 16.46 | 7.75 |
| 1150 | 16.96 | 8.25 |
| 1200 | 17.46 | 8.75 |

GASKETS THROUGHOUT


| | | | | | |
|---|---------------------------|------------------------|---|------------------------------------|--|
| DRAWING REVISION C | REVISION BY PST | DATE 1/20/15 | TOLERANCES UNLESS OTHERWISE SPECIFIED: DEC. INCH mm ANGLE .X ±0.1 [±2.5] ±0.5° .XX ±0.03 [±0.76] .XXX ±0.005 [±0.127] .XXXX ±0.0005 [±0.0127] | DRAWN BY JD | Regal Beloit America, Inc. |
| ECO ECO-0069862 | APPROVED BY ST | DATE 1/20/15 | DATE 05/08/2012 | DATE | |
| ECO DESCRIPTION ADDED DASH# 1200 | | | REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] CORNER FILLETS: .02 [.51] MACHINED SURFACES: 125 INCH 3.2 mm mm SHOWN IN [BRACKETS] | APPROVED BY | DESCRIPTION OUTLINE TEFC - RIGID MOUNT |
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| | | | THIRD ANGLE PROJECTION | SIZE B | DRAWING NUMBER 035482LN |

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



| | | | |
|--------------------------------|----|--------|--------|
| ROTATION FACING LEAD END | L1 | L2 | JOIN |
| C.C.W. | P1 | T4, T5 | T1, T8 |
| C.W. | P1 | T4, T8 | T1, T5 |

* THIS LEAD MAY BE WHITE

| | | | | | | | | | | |
|--|----------|-----------|-----|--------------------------------|---------------------|---|------|-------------------------|--|------|
| | | | | TOLERANCES UNLESS SPECIFIED | |  | | DRAWN WLW 08/30/76 | | |
| | | | | DEC. | INCHES | | | CHK WRK 09/24/76 | | |
| | | | | .X | ±.1 | | | APPD | | |
| | | | | .XX | ±.01 | | | SCALE 1=1 | | |
| | | | | .XXX | ±.005 | | | REF | | |
| | | | | .XXXX | ±.0005 | MAT'L. DECAL - 004015 | | FMF 6K17FB4 | | |
| 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 | CAD FILE 00505603LN | | SIZE | DRAWING NO. 005056-03LN | | REV. |
| | | | | DIST | BRF-NLV | | A | | | |



CERTIFICATION DATA SHEET

**2100 WASHINGTON ST.
GRAFTON, WI
PH. 262-277-8810**

CONN. DIAGRAM: 005056.03LN

CATALOG : LM24802

OUTLINE: 035482LN-1200

WINDING #: K8484 FR 2

MOUNTING: F1 ONLY

TYPICAL MOTOR PERFORMANCE DATA

| HP | kW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|-------|-----------|----------|----------------|
| 5 | 3.70 | 1800 | 1755 | 184T | TEFC | K | NO DESIGN CODE |

| PH | Hz | VOLTS | AMPS | START TYPE | DUTY | INSL | S.F. | AMB°C |
|----|----|---------|----------------|-----------------|------------|------|------|-------|
| 1 | 60 | 208-230 | 23.8-21.8-21.8 | ACROSS THE LINE | CONTINUOUS | F4 | 1.15 | 40 |

| FULL LOAD EFF: | 84 | 3/4 LOAD EFF: | 83.5 | 1/2 LOAD EFF: | 80.4 | GTD. EFF | | ELEC. TYPE | |
|----------------|----|---------------|------|---------------|------|----------|--|-------------------|--|
| FULL LOAD PF: | 89 | 3/4 LOAD PF: | 86.1 | 1/2 LOAD PF: | 78.7 | 81.5 | | CAP START CAP RUN | |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|------------------|------------------|-------------|
| 14.88 LB-FT | 178 | 49.8 LB-FT 332 % | 44.7 LB-FT 298 % | 75 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS / HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|---------------|-------------|-----------------|---------------|-------------------|
| 0 dBA | 10 dBA | 0.612 LB-FT^2 | 0.6 LB-FT^2 | 10 SEC. | 0 | 139 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 | GRAY - GE |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------|----------------|
| DE | ODE | | | | | | |
| BALL | BALL | POLYREX EM | T | NONE | NONE | AISI 1045 (C-240) | ROLLED STEEL |
| 6206 | 6205 | | | | | | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------------|------------|----------|----------|-------------|---------|---------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | MANUAL | 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 FT-LB NONE V NONE Hz |



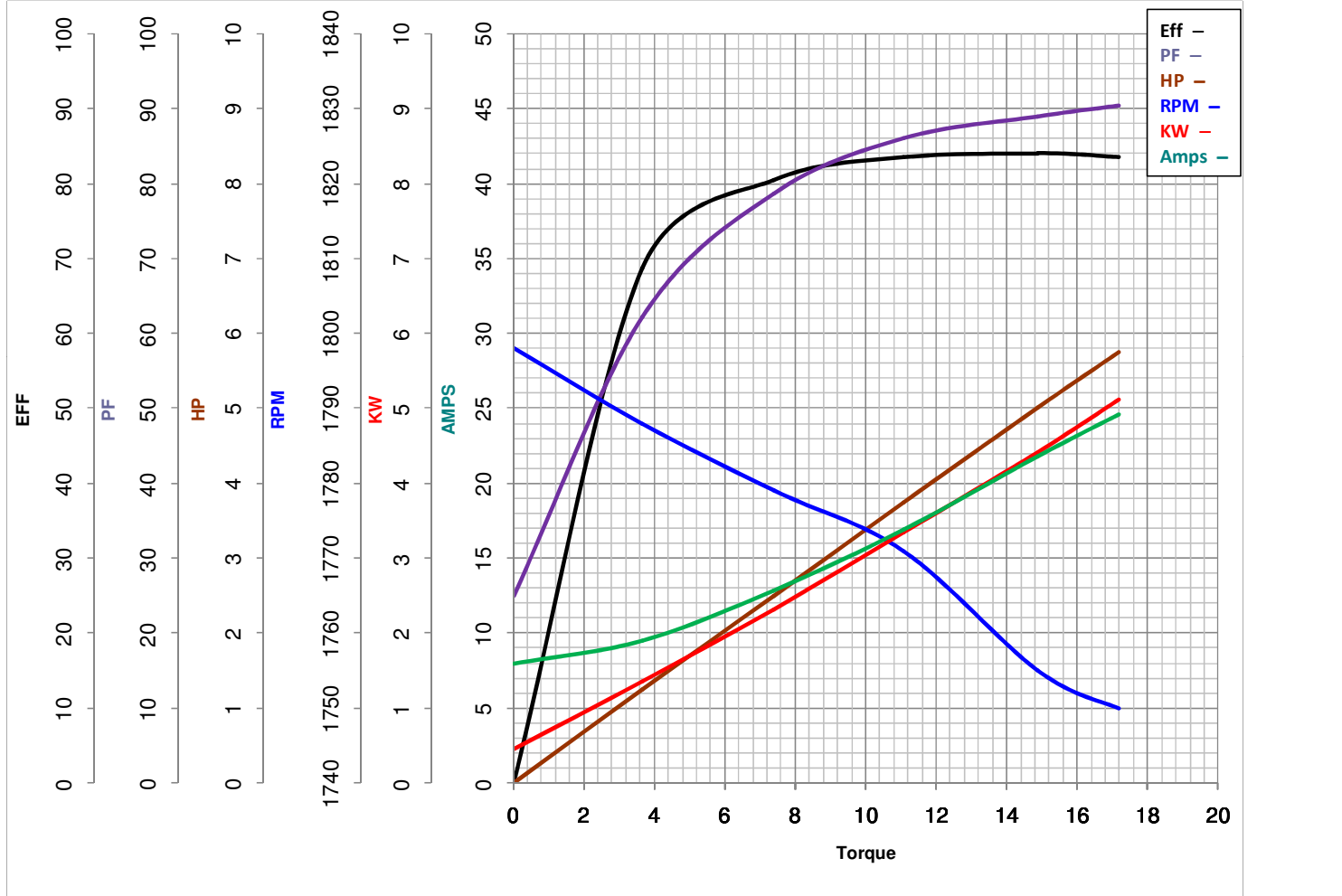
LEESON ELECTRIC CORPORATION
 TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No LM24802

Curve at 230 Volts HP 5.00 PHASE 1
60 HZ
5 HP VOLTS 208-230

Catalog No LM24802DD

HZ 60 RPM 1755



| | | | | |
|-----------|--------------|-------|-----------|-----------------------|
| FL TORQUE | <u>14.88</u> | Lb.Ft | FL AMPS | <u>23.8-21.8-21.8</u> |
| BD TORQUE | <u>44.7</u> | Lb.Ft | PU TORQUE | <u>44.0</u> |
| LR TORQUE | <u>49.8</u> | Lb.Ft | LR AMPS | <u>178</u> |
| WINDING | K8484-2 | | Date | 3/28/2018 |