

# PRODUCT INFORMATION PACKET

Model No: 102860.00

Catalog No: 102860.00

General Purpose Motor, 0.50 HP, 3 Ph, 60 Hz, 208-230/460 V, 1800 RPM, S56C Frame, TEFC



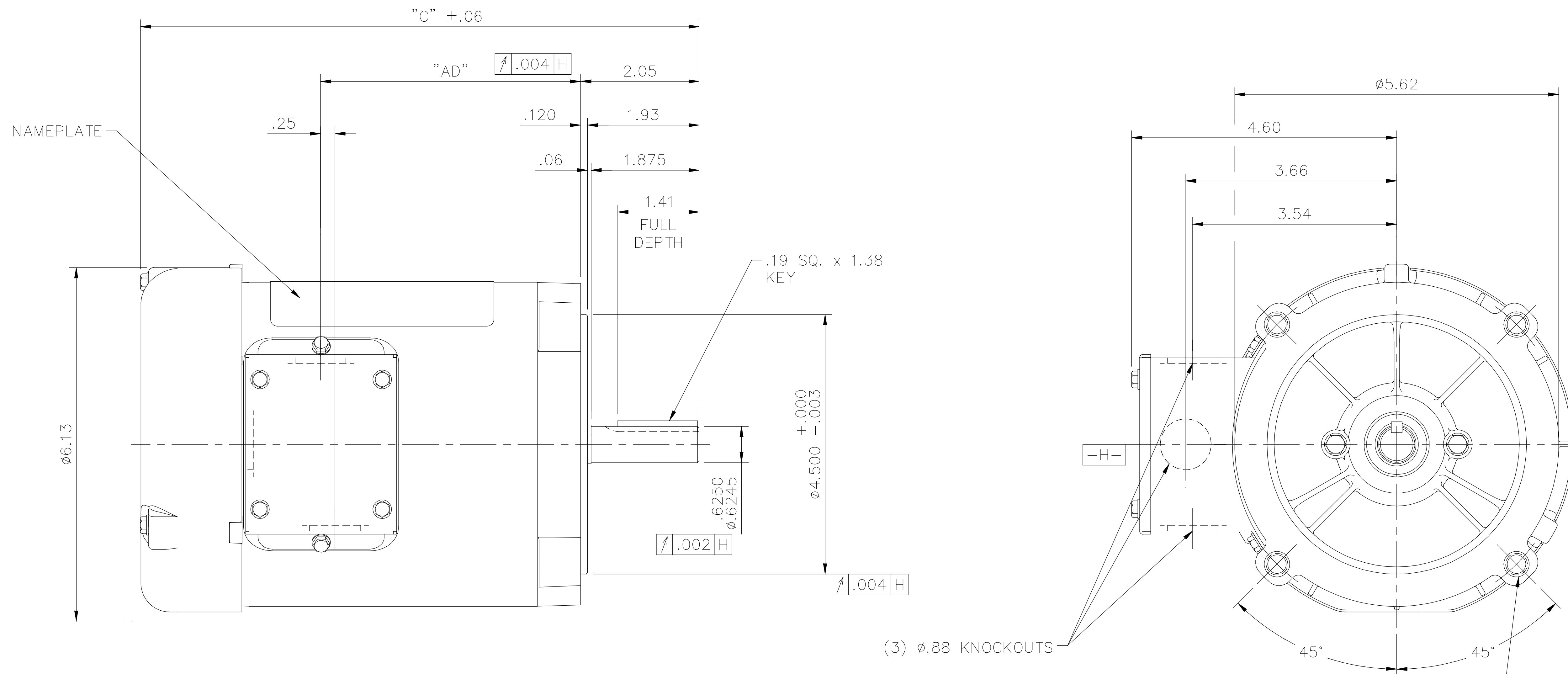
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### Nameplate Specifications

|                        |                      |                            |                                    |
|------------------------|----------------------|----------------------------|------------------------------------|
| Output HP              | <b>0.50 Hp</b>       | Output KW                  | <b>0.37 kW</b>                     |
| Frequency              | <b>60 Hz</b>         | Voltage                    | <b>208-230/460 V</b>               |
| Current                | <b>1.9-2.0/1.0 A</b> | Speed                      | <b>1725 rpm</b>                    |
| Service Factor         | <b>1.15</b>          | Phase                      | <b>3</b>                           |
| Efficiency             | <b>73 %</b>          | Power Factor               | <b>62</b>                          |
| Duty                   | <b>Continuous</b>    | Insulation Class           | <b>B</b>                           |
| Design Code            | <b>B</b>             | KVA Code                   | <b>L</b>                           |
| Frame                  | <b>S56C</b>          | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>No Protection</b> | Ambient Temperature        | <b>40 °C</b>                       |
| Drive End Bearing Size | <b>6203</b>          | Opp Drive End Bearing Size | <b>6203</b>                        |
| UL                     | <b>Recognized</b>    | CSA                        | <b>Y</b>                           |
| CE                     | <b>N</b>             | IP Code                    | <b>43</b>                          |
| Number of Speeds       | <b>1</b>             |                            |                                    |

### Technical Specifications

|                       |                                    |                       |                        |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type       | <b>Squirrel Cage Induction Run</b> | Starting Method       | <b>Across The Line</b> |
| Poles                 | <b>4</b>                           | Rotation              | <b>Reversible</b>      |
| Resistance Main       | <b>8.91 Ohms</b>                   | Mounting              | <b>Round</b>           |
| Motor Orientation     | <b>Horizontal</b>                  | Drive End Bearing     | <b>Ball</b>            |
| Opp Drive End Bearing | <b>Ball</b>                        | Frame Material        | <b>Rolled Steel</b>    |
| Shaft Type            | <b>NEMA 56</b>                     | Overall Length        | <b>10.19 in</b>        |
| Frame Length          | <b>5.50 in</b>                     | Shaft Diameter        | <b>0.625 in</b>        |
| Shaft Extension       | <b>1.88 in</b>                     | Assembly/Box Mounting | <b>F1 ONLY</b>         |
| Connection Drawing    | <b>005010.01</b>                   | Outline Drawing       | <b>031637-550</b>      |



| DASH NO. | "C"   | "AD" |
|----------|-------|------|
| 475      | 9.44  | 4.25 |
| 500      | 9.69  | 4.50 |
| 525      | 9.94  | 4.75 |
| 550      | 10.19 | 5.00 |
| 575      | 10.44 | 5.25 |
| 600      | 10.69 | 5.50 |
| 625      | 10.94 | 5.75 |
| 650      | 11.19 | 6.00 |
| 675      | 11.44 | 6.25 |
| 700      | 11.69 | 6.50 |
| 725      | 11.94 | 6.75 |
| 750      | 12.19 | 7.00 |

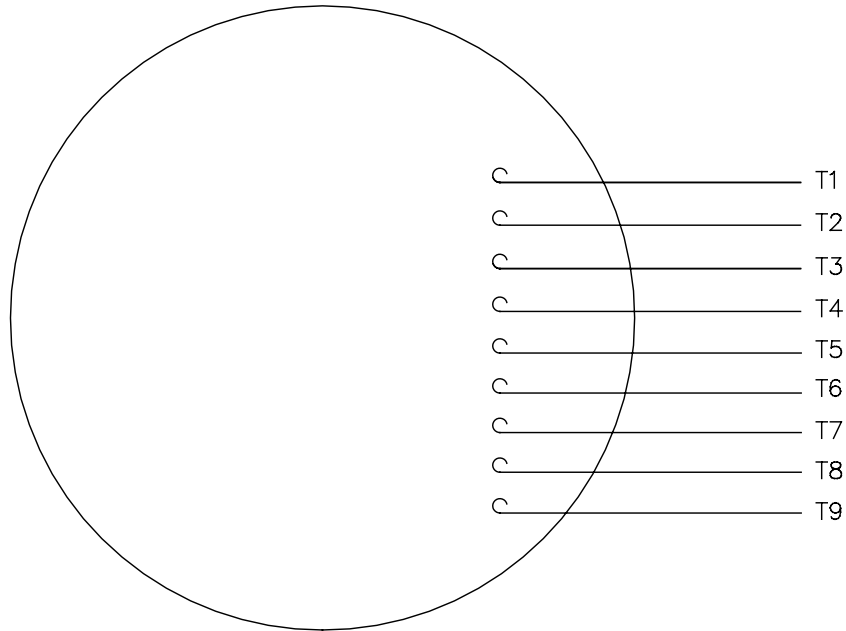
3/8-16 UNC 2B TAP x .56 DEEP  
(4) REQ'D. ON A 5.875 B.C.

GASKETS THROUGHOUT

|  |   | TOLERANCES UNLESS SPECIFIED |          | REGAL™ Regal Beloit America, Inc. |                    | DRAWN PG 7/12/01           |         |
|--|---|-----------------------------|----------|-----------------------------------|--------------------|----------------------------|---------|
|  |   | DEC.                        | INCHES   |                                   |                    | CHK                        |         |
|  |   | .X                          | ±.1      |                                   |                    | APPD PG 7/12/01            |         |
| 03   | UPDATED SHAFT KEYWAY VIEW               | UD                          | 11/27/18 | .XX                               | ±.03               | TITLE OUTLINE - S56C FRAME |         |
| 02   | ADDED DASH NO. 475 TO TABLE (102184.00) | PG                          | 9/19/02  | .XXX                              | ±.005              | "C" FACE MOUNT - TEFC      |         |
| 01   | REVISED CALLOUT FOR GD&T                | KMM                         | 6/6/02   | PG                                | .XXXX ±.0005       | MAT'L. 3 PHASE             |         |
| NO.  | REVISION                                | BY & DATE                   | CHK      | ANG                               | ±1/2'              | FINISH                     |         |
| 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           | 031637                     | SIZE B  |
|  |   |                             |          | DIST                              | DRAWING NO. 031637 |                            | REV. 02 |

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



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

TOLERANCES  
UNLESS SPECIFIED

DEC. INCHES

.X ±.1

.XX ±.01

.XXX ±.005

.XXXX ±.0005

NO. REVISION BY & DATE CHK ANG ±1/2"



DRAWN RDW 04/12/02

CHK

APPD

SCALE 1=1

REF FIG.2-51

FMF

PREV

|     |                       |              |     |       |        |        |
|-----|-----------------------|--------------|-----|-------|--------|--------|
| A   | UPDATED TO REGAL LOGO | SAJ 06/26/15 | AJY | .XXXX | ±.0005 | MAT'L. |
| NO. | REVISION              | BY & DATE    | CHK | ANG   | ±1/2"  | FINISH |

TITLE  
EXTERNAL WIRING DIAGRAM  
3 PHASE W/O PROTECTOR  
DECAL - 004014

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RFP 04/12/02 CAD FILE 00501001  
DIST BRF-NLV

|      |             |      |
|------|-------------|------|
| SIZE | DRAWING NO. | REV. |
| A    | 005010-01   | A    |



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

**CERTIFICATION DATA SHEET**

**CONN. DIAGRAM:** 005010.01 **CATALOG #:** 102860.00  
**OUTLINE:** 031637-550 **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     | S56C  | 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                  |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|------------------------|
| C-FACE          | STANDARD         | ROUND      | HORIZONTAL  | FALSE       | NONE               | FALSE      | NONE    | BLUE - LEESON (ENAMEL) |

| BEARINGS |      | GREASE      | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL           | FRAME MATERIAL |
|----------|------|-------------|------------|------------|-------------|--------------------------|----------------|
| DE       | ODE  |             |            |            |             |                          |                |
| BALL     | BALL | MULTEMP SRL | T          | 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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|                                  |
|----------------------------------|
| <b>INVERTER TORQUE:</b> NONE     |
| <b>INV. HP SPEED RANGE:</b> NONE |
| <b>ENCODER:</b> NONE             |
| NONE NONE                        |
| NONE NONE PPR                    |
| <b>BRAKE:</b> NONE NONE          |
| NONE P/N NONE                    |
| NONE NONE                        |
| FT-LB NONE V NONE Hz             |



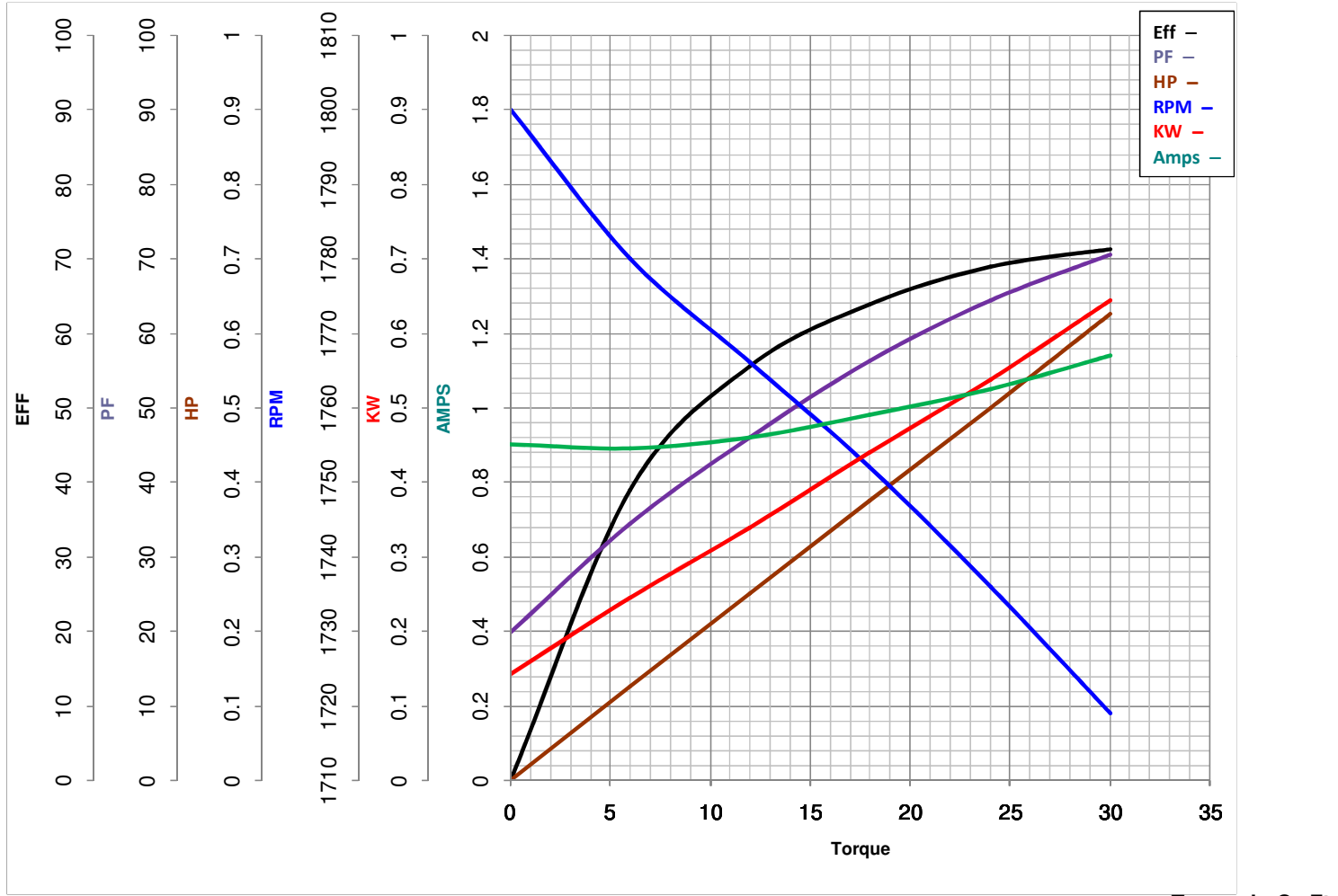
**LEESON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Model No 102860.00

Catalog No 102860.00

Curve at 460 Volts      HP 0.50      PHASE 3  
60 HZ  
0.5 HP      VOLTS 208-230/460

HZ 60      RPM 1725



|           |                    |           |                   |
|-----------|--------------------|-----------|-------------------|
| FL TORQUE | <u>24</u> Oz.Ft    | FL AMPS   | <u>1.9-2/1</u>    |
| BD TORQUE | <u>100.0</u> Oz.Ft | PU TORQUE | <u>91.3</u> Oz.Ft |
| LR TORQUE | <u>95.9</u> Oz.Ft  | LR AMPS   | <u>5.95</u>       |
| WINDING   | TE48415-3          | Date      | 5/22/2018         |