

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 056C34G5310  
Catalog No: G658  
1,3450,EPFC,56,1/60/115/208-230  
Explosion Proof



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**REGAL**

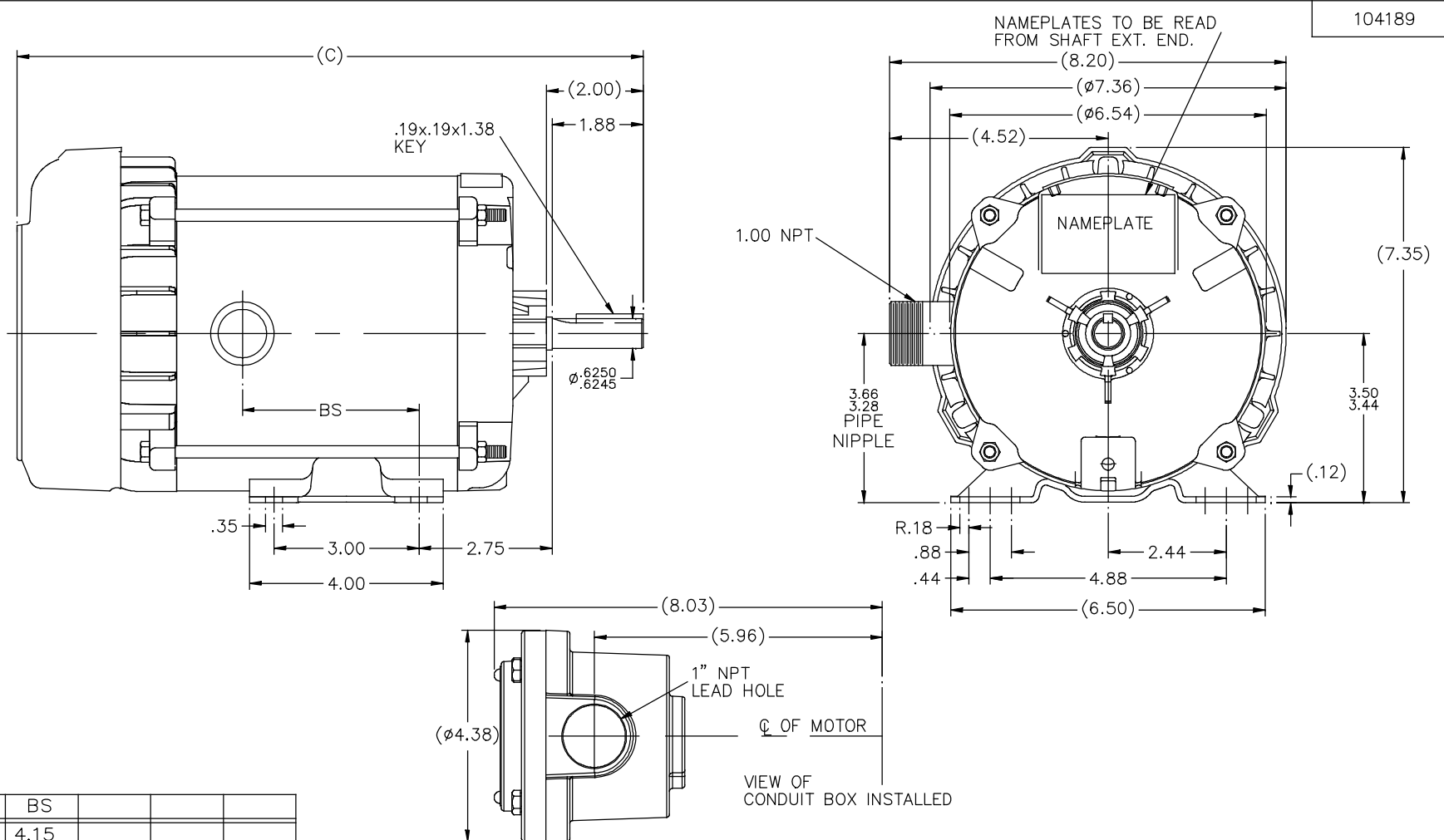


## Nameplate Specifications

|                            |                |                        |                |
|----------------------------|----------------|------------------------|----------------|
| Output HP                  | 1 Hp           | Output KW              | 0.75 kW        |
| Frequency                  | 60 Hz          | Voltage                | 115/208-230 V  |
| Current                    | 12.4/6.7-6.2 A | Speed                  | 3450 rpm       |
| Service Factor             | 1              | Phase                  | 1              |
| Efficiency                 | 72 %           | Duty                   | CONTINUOUS     |
| Insulation Class           | F              | Design Code            | NO DESIGN CODE |
| KVA Code                   | K              | Frame                  | 56             |
| Enclosure                  | EPFC           | Overload Protector     | AUTOMATIC      |
| Ambient Temperature        | 40 °C          | Drive End Bearing Size | 6203           |
| Opp Drive End Bearing Size | 6203           | UL                     | Recognized     |
| CSA                        | N              | CE                     | N              |
| IP Code                    | 54             |                        |                |

## Technical Specifications

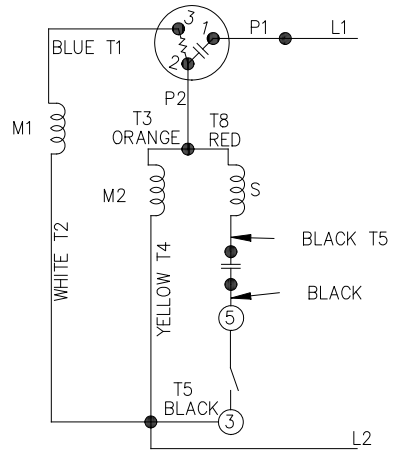
|                       |                   |                       |                 |
|-----------------------|-------------------|-----------------------|-----------------|
| Electrical Type       | CAP START IND RUN | Starting Method       | ACROSS THE LINE |
| Poles                 | 2                 | Rotation              | SELECTIVE CCW   |
| Mounting              | RIGID             | Motor Orientation     | HORIZONTAL      |
| Drive End Bearing     | BALL              | Opp Drive End Bearing | BALL            |
| Frame Material        | ROLLED STEEL      | Shaft Type            | STANDARD 56     |
| Overall Length        | 14.44 in          | Frame Length          | 7.31 in         |
| Shaft Diameter        | 0.63 in           | Shaft Extension       | 2 in            |
| Assembly/Box Mounting | F1 ONLY           |                       |                 |
| Outline Drawing       | B-104189-731      | Connection Diagram    | 102005-84       |



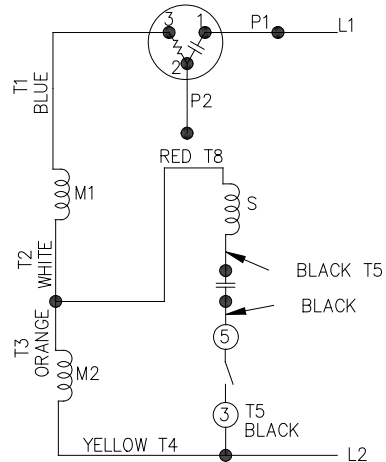
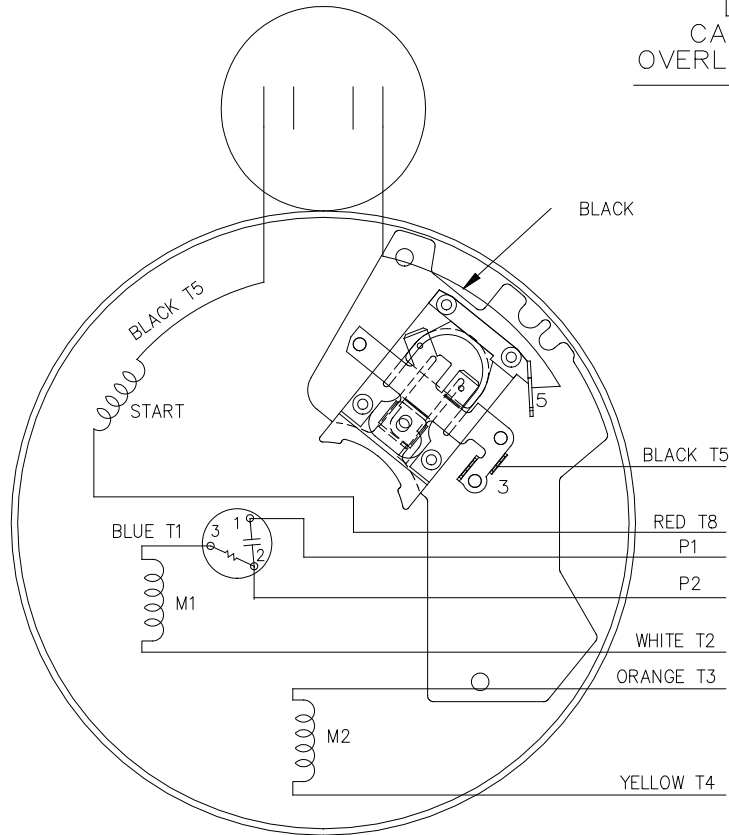
| DASH | (C)   | BS   |  |  |  |
|------|-------|------|--|--|--|
| 631  | 13.44 | 4.15 |  |  |  |
| 681  | 13.94 | 4.65 |  |  |  |
| 731  | 14.44 | 5.15 |  |  |  |
| 781  | 14.94 | 5.65 |  |  |  |
| 831  | 15.44 | 6.15 |  |  |  |
| 881  | 15.94 | 6.65 |  |  |  |
| 931  | 16.44 | 7.15 |  |  |  |
| 981  | 16.94 | 7.65 |  |  |  |

|                                                                                                                                                                                                                                                              |                                                  |                |         |        |                                    |                                                                                                                  |        |                    |                     |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------|---------|--------|------------------------------------|------------------------------------------------------------------------------------------------------------------|--------|--------------------|---------------------|--------|
|                                                                                                                                                                                                                                                              |                                                  |                |         |        | TOLERANCES<br>UNLESS SPECIFIED     |  Regal Beloit America, Inc. |        |                    | DRAWN MH 11-20-1996 |        |
|                                                                                                                                                                                                                                                              |                                                  |                |         |        | DEC. INCHES                        |                                                                                                                  |        |                    | CHK ML 12-02-1996   |        |
| 4                                                                                                                                                                                                                                                            | COND. BOX INSTALLED VIEW UPDATED PER ECR-0044571 | UD 10/15/13    | ST X    | ±.1    |                                    |                                                                                                                  |        |                    | APPD GK 12-02-1996  |        |
| 3                                                                                                                                                                                                                                                            | REVISED C'BOX PER CN407B4A                       | JJB 02/23/2007 | ML .XX  | ±.03   | TITLE OUTLINE                      |                                                                                                                  |        |                    | SCALE 1=2           |        |
| 2                                                                                                                                                                                                                                                            | ADDED CONDUIT BOX VIEW CN 26686                  | MRB 03-22-1998 | .XXX    | ±.005  | 56 FR. — EXP. PR. — TEFC — 1Ø & 3Ø |                                                                                                                  |        |                    | REF                 |        |
| 1                                                                                                                                                                                                                                                            | NEW DRAWING CN 23099                             | MH 12-02-1996  | .XXXX   | ±.0005 | MAT'L                              |                                                                                                                  |        |                    | FMF                 |        |
| NO.                                                                                                                                                                                                                                                          | REVISION                                         | BY & DATE      | CHK ANG | ±7°30" | FINISH                             |                                                                                                                  |        |                    | PREV                |        |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT<br>IN CONNECTION WITH THE WORK FOR WHICH IT WAS DESIGNED AND INVENTED BY REGAL BELLOIT AMERICA, INC.<br>THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT |                                                  |                |         |        | RFP                                | CAD FILE 104189                                                                                                  | SIZE B | DRAWING NO. 104189 | PAGE OF 4           | REV. 4 |

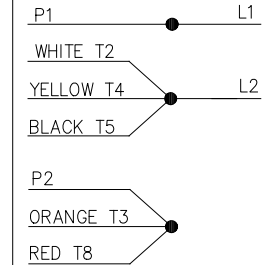
## LOW VOLTAGE – C.C.W.



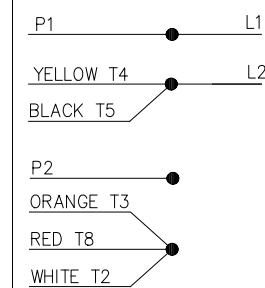
## HIGH VOLTAGE – C.C.W.

DUAL VOLTAGE  
CAPACITOR START  
OVERLOAD SELECT ROT.

## LOW VOLT. – C.C.W. ROT.



## HIGH VOLT. – C.C.W. ROT.



FOR C.W. ROTATION  
EITHER VOLTAGE  
INTERCHANGE RED(T8)  
WITH BLACK(T5) LEAD

|                                                                                                                                                                                                                                        |                                                  |                |         |                                |                    |                                                                                                                                    |                      |                       |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------|---------|--------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|--------------|
|                                                                                                                                                                                                                                        |                                                  |                |         | TOLERANCES<br>UNLESS SPECIFIED |                    |  <b>Regal</b> ™<br>Regal Beloit America, Inc. | DRAWN PGK 07-16-1996 |                       |              |
|                                                                                                                                                                                                                                        |                                                  |                |         | DEC.                           | INCHES             |                                                                                                                                    | CHK MRB 07-18-1996   |                       |              |
| 5                                                                                                                                                                                                                                      | UPDATED TEMPLETE                                 | MVG 12/11/2017 | PVR     | .X                             | ±.1                | TITLE CONNECTION DIAGRAM                                                                                                           | APPD GK 07-18-1996   |                       |              |
| 4                                                                                                                                                                                                                                      | REV'D CONNECTION TO MATCH ROTATION ISAAC 07-2021 | JJB 09/05/2007 | ML      | .XX                            | ±.02               |                                                                                                                                    | SCALE 5=8            |                       |              |
| 3                                                                                                                                                                                                                                      | ADDED T NO.'S MU16064                            | MH 08-09-1997  |         | .XXX                           | ±.005              |                                                                                                                                    | REF                  |                       |              |
| 2                                                                                                                                                                                                                                      | REDRAWN ON CADD, NO CHANGES                      | PGK 07-18-1996 |         | .XXXX                          | ±.0005             |                                                                                                                                    | FMF                  |                       |              |
| NO.                                                                                                                                                                                                                                    | REVISION                                         | BY & DATE      | CHK     | ANG                            | ±7"30"             | FINISH                                                                                                                             | PREV                 |                       |              |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT<br>IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED<br>THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT |                                                  |                | RFP     |                                | CAD FILE 102005_84 |                                                                                                                                    | SIZE<br>A            | DRAWING NO. 102005-84 | PAGE OF<br>5 |
|                                                                                                                                                                                                                                        |                                                  |                | DIST WP |                                |                    |                                                                                                                                    |                      |                       |              |

## CERTIFICATION DATA SHEET

**Model#:** 56C34G5310 H      **WINDING#:** ZC223 NONE 3  
**CONN. DIAGRAM:** 102005-84      **ASSEMBLY:** F1 ONLY  
**OUTLINE:** B-104189-731

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW  | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN         |
|----|-----|-----------|----------|-------|-----------|----------|----------------|
| 1  | .75 | 3600      | 3450     | 56    | EPFC      | K        | NO DESIGN CODE |

| PH | Hz | VOLTS       | FL AMPS      | START TYPE      | DUTY       | INSL | S.F | AMB°C | ELEVATION |
|----|----|-------------|--------------|-----------------|------------|------|-----|-------|-----------|
| 1  | 60 | 115/208-230 | 12.4/6.7-6.2 | ACROSS THE LINE | CONTINUOUS | F3   | 1.0 | 40    | 3300      |

| FULL LOAD EFF: 72 | 3/4 LOAD EFF: 70.1 | 1/2 LOAD EFF: 65.4 | GTD. EFF | ELEC. TYPE        | NO LOAD AMPS |
|-------------------|--------------------|--------------------|----------|-------------------|--------------|
| FULL LOAD PF: 76  | 3/4 LOAD PF: 75.1  | 1/2 LOAD PF: 66.8  | 0        | CAP START IND RUN | 5.4 / 2.7    |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE  | B.D. TORQUE  | F.L. RISE°C |
|-------------|-------------------|--------------|--------------|-------------|
| 23.8 LB-FT  | 73.8 / 36.9       | 75.4 LB-FT 0 | 62.8 LB-FT 0 | 55          |

| 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 LB-FT^2  | 0 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         | RIGID      | HORIZONTAL  | FALSE       | EXP PROOF CL I GR C&D CL II GR F&G T3B | FALSE      | NONE    | GRAY (POWDER) |

| BEARINGS |      | GREASE     | SHAFT TYPE  | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|----------|------|------------|-------------|------------|-------------|----------------|----------------|
| DE       | OPE  |            |             |            |             |                |                |
| BALL     | BALL | POLYREX EM | STANDARD 56 | NONE       | NONE        | VERIFY         | ROLLED STEEL   |
| 6203     | 6203 |            |             |            |             |                |                |

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS       | PROTECTORS | WDG RTDs | BRG RTDs |             |         |                  |
| NONE              | AUTOMATIC  | NONE     | NONE     | NONE        | FALSE   | NONE VOLTS       |

If Inverter equals NONE, contact factory for further information

|                           |        |         |  |
|---------------------------|--------|---------|--|
| 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 |  |

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 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.