

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 5K35MN75  
Catalog No: K321  
1/4,1140,TEFC,56,3/60/230/460  
General Purpose Motors



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**RegalRexnord**

**Nameplate Specifications**

|                        |            |                            |                             |
|------------------------|------------|----------------------------|-----------------------------|
| Output HP              | 0.25 Hp    | Output KW                  | 0.19 kW                     |
| Frequency              | 60 Hz      | Voltage                    | 230/460 V                   |
| Current                | 1.4,0.7 A  | Speed                      | 1140 rpm                    |
| Service Factor         | 1.35       | Phase                      | 3                           |
| Efficiency             | 64 %       | Power Factor               | 0                           |
| Duty                   | Continuous | Insulation Class           | A                           |
| Design Code            | B          | KVA Code                   | K                           |
| Frame                  | 56         | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | N/R        | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6203       | Opp Drive End Bearing Size | 6203                        |
| UL                     | Recognized | CSA                        | Yes                         |
| CE                     | N          | Number of Speeds           | 1                           |

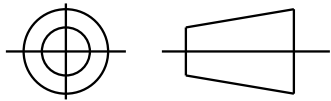
**Technical Specifications**

|                    |              |                       |                            |
|--------------------|--------------|-----------------------|----------------------------|
| Electrical Type    | Three Phase  | Starting Method       | N/R                        |
| Poles              | 6            | Rotation              | Counterclockwise/Clockwise |
| Mounting           | Rigid Base   | Motor Orientation     | ANY                        |
| Drive End Bearing  | BALL         | Opp Drive End Bearing | Ball                       |
| Frame Material     | Rolled Steel | Overall Length        | 10.93 in                   |
| Frame Length       | 5.79 in      | Shaft Diameter        | 0.630 in                   |
| Shaft Extension    | 1.88 in      |                       |                            |
| Connection Drawing | 113A930FIG2  | Outline Drawing       | 52A102069P3                |

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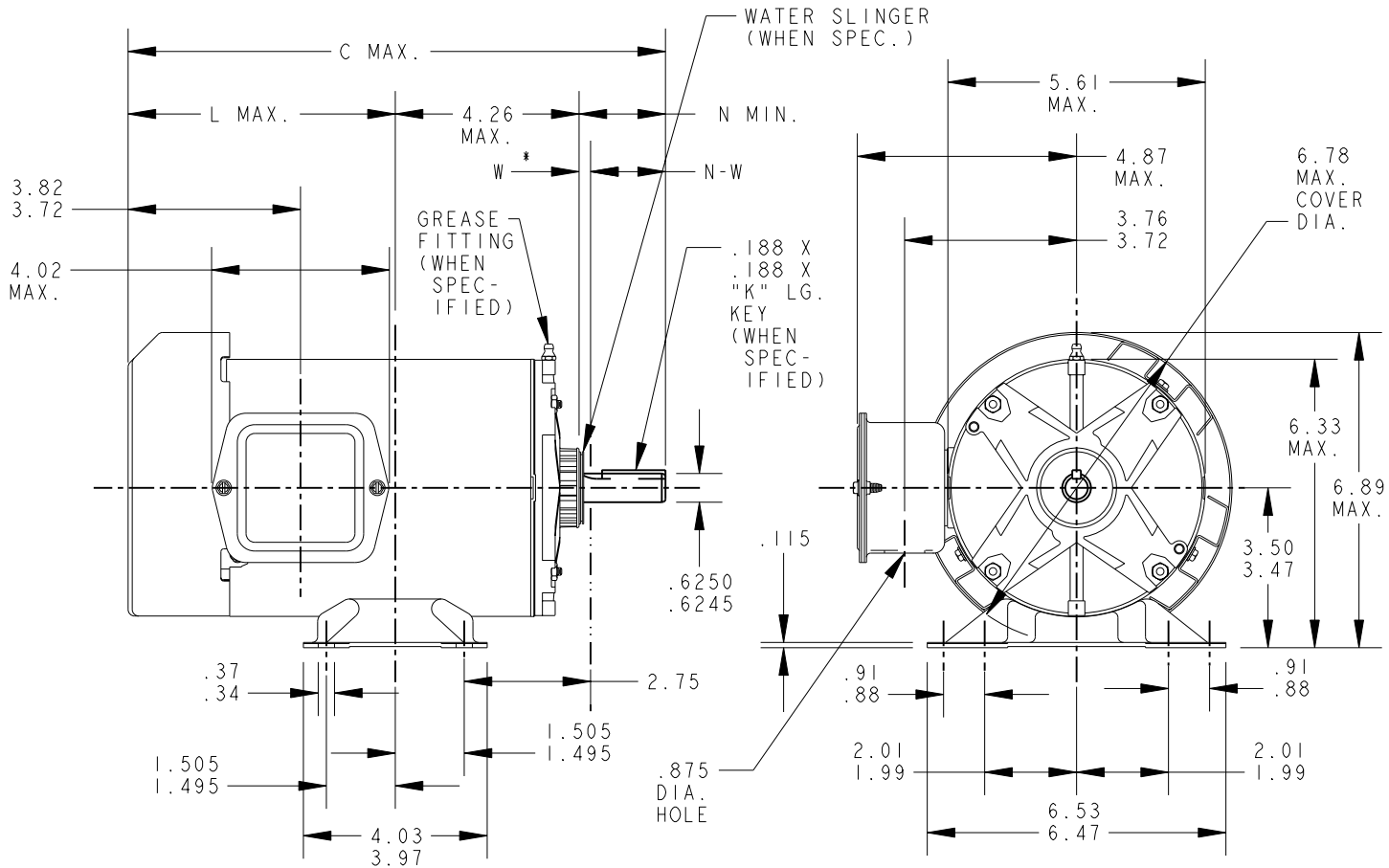
SHEET  
REV  
52A102069 9  
SIZE DRAWING NO.  
A

THIRD ANGLE PROJECTION




REVISIONS

| REV. | DESCRIPTION                | DATE     | APPROVED |
|------|----------------------------|----------|----------|
| 7    | REVISED & REDRAWN          | 11/09/90 | B.L.J    |
| 8    | REVISED BASE SLOT LOCATION | 03/07/91 | B.L.J    |
| 9    | CHG MADE AS PER ISO5-3080  | 12/06/05 | GOVARDAN |



W \* IS A CLEARANCE DUE TO VARIATION IN PARTS AND ASSEMBLY

|   |      |            |             |       |      |      |      |           |                |   |      |            |             |       |      |      |      |           |                |
|---|------|------------|-------------|-------|------|------|------|-----------|----------------|---|------|------------|-------------|-------|------|------|------|-----------|----------------|
| 5 | K KH | 37         | 56          | 11.76 | 1.38 | 5.58 | 1.88 | 2.01/1.79 |                |   |      |            |             |       |      |      |      |           |                |
| 4 | K KH | 36         | 56          | 11.36 | 1.38 | 5.18 | 1.88 | 2.01/1.79 |                | 9 | K KH | 39         | 56Z         | 10.05 | 1.38 | 3.87 | 1.88 | 2.01/1.79 | 4.91           |
| 3 | K KH | 35         | 56          | 10.93 | 1.38 | 4.75 | 1.88 | 2.01/1.79 |                | 8 | K KH | 38         | 56Z         | 16.23 | 1.38 | 6.18 | 5.75 | 5.88/5.66 |                |
| 2 | K KH | 33         | 56          | 10.55 | 1.38 | 4.37 | 1.88 | 2.01/1.79 |                | 7 | K KH | 39         | 56          | 12.89 | 1.38 | 6.71 | 1.88 | 2.01/1.79 | 7.75           |
| 1 | K KH | 32         | 56          | 10.30 | 1.38 | 4.12 | 1.88 | 2.01/1.79 |                | 6 | K KH | 38         | 56          | 12.36 | 1.38 | 6.18 | 1.88 | 2.01/1.79 |                |
| P | TYPE | GE<br>SIZE | NEMA<br>FR. | C     | K    | L    | N    | N-W       | SHELL<br>LGTH. | P | TYPE | GE<br>SIZE | NEMA<br>FR. | C     | K    | L    | N    | N-W       | SHELL<br>LGTH. |

|                               |              |  |          |   |            |                                     |
|-------------------------------|--------------|--|----------|---|------------|-------------------------------------|
| FOR ADDITIONAL INFO REFER TO: | SIGNATURES   |  | DATE     | <br><b>REGAL-BELOIT CORPORATION</b>                            |            |                                     |
|                               | MODEL F.P.K  |  | 25/01/77 |   |            |                                     |
|                               | DETAIL       |  |          |   |            |                                     |
|                               | CHECKED      |  |          |   |            |                                     |
|                               | ENGRG        |  |          |   |            |                                     |
| APPLIED PRACTICES             | MFG          |  |          | TITLE<br><b>OUTLINE</b><br><b>GENERAL PURPOSE MOTOR - FORM N - TOTALLY ENCLOSED</b><br><b>OUTBOARD FAN - WELDED BASE - BALL OR SLEEVE BEARING</b> |            |                                     |
| DIMENSIONS ARE IN INCHES      | QUALITY      |  |          |   |            |                                     |
| MATERIAL                      | ISSUED B.L.J |  | 03/07/91 |   |            |                                     |
| SOLID MODEL: 52A102069        |              |  |          | SIZE DRAWING<br>A   | REF. No: . | REV<br><b>52A102069</b><br><b>9</b> |
| SCALE: 1.000                  |              |  |          | SHEET 1 OF 1  |            |                                     |

113A930FIG2 2

REV 2

SHEET 1

113A930FIG2 2

REV 2

SHEET 1

113A930FIG2 2

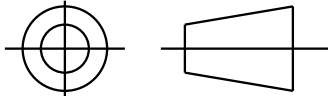
REV 2

SHEET 1

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THIRD ANGLE PROJECTION

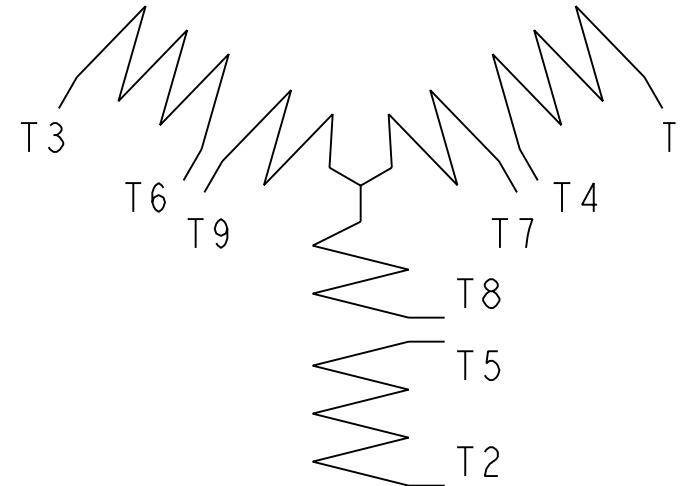


REVISIONS

| REV. | DESCRIPTION  | DATE     | APPROVED |
|------|--|----------|----------|
| 1    | CHG TO RBC FORMAT PER ISO5-1777                    | 06/15/06 | MADHU    |
| 2    | RENAMED 113A930_FIG_2 TO 113A930FIG2 PER ISO7-0972 | 05/08/07 | MADHU    |

FIG. 2

3 PHASE



|    | VOLTS | L1    | L2    | L3    | TOGETHER            |
|----|-------|-------|-------|-------|---------------------|
| 2Y | LOW   | 1 - 7 | 2 - 8 | 3 - 9 | 4 - 5 - 6           |
| 1Y | HIGH  | 1     | 2     | 3     | 4 - 7, 5 - 8, 6 - 9 |

BRAKE MOTORS: CONNECT BRAKE LEADS  
B1 & B2 TO MOTOR  
LEADS T7 & T8.

FOR ADDITIONAL INFO REFER TO:

APPLIED PRACTICES

DIMENSIONS ARE IN INCHES

TOLERANCE ON:  
1 PL DECIMALS ± 0.1  
2 PL DECIMALS ± 0.02  
3 PL DECIMALS ± 0.005  
ANGLES ± 1.0  
FRACTIONS ±  
FINISH

MATERIAL

SIGNATURES

MODEL M.D. PAPE

DETAIL

CHECKED

ENGRG

MFG


QUALITY

ISSUED M.D. PAPE

SOLID MODEL: 113A930FIG2

DATE 02/25/03

DATE 02/25/03



REGAL-BELOIT CORPORATION

TITLE CONNECTION DIAGRAM

SIZE A

DRAWING

SCALE: 1.000

REF. No:

SHEET 1 of 1

113A930FIG2

REV 2

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