

# ABB BALDOR RELIANCE III

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## Customer information packet

### C18G2703

3HP, 1725RPM, 1PH, 60HZ, 180TY, TEXP, V1

Class - CLI GP C,D

Division - Division I

**Specifications**

|                          |                                  |
|--------------------------|----------------------------------|
| Enclosure                | XPNV                             |
| Frame                    | 180TY                            |
| Frame Material           | Iron                             |
| Haz Area Class and Group | CLI GP C,D                       |
| Haz Area Division        | Division I                       |
| Output @ Frequency       | 3.000 @ 60 HZ                    |
| Phase                    | 1                                |
| Voltage @ Frequency      | 230 V @ 60 HZ<br>115 V @ 60 HZ   |
| Agency Approvals         | CCSA US<br>CSA<br>UL             |
| Base Indicator           | No Mounting                      |
| Bearing Grease Type      | Polyrex EM (-20F +300F)          |
| Cable Length             | 25 FOOT                          |
| Current @ Voltage        | 20.0 A @ 230 V<br>40.0 A @ 115 V |
| Design Code              | L                                |
| Drip Cover               | No Drip Cover                    |
| Duty Rating              | 15 MIN                           |
| Haz Area Temp Code       | T3C                              |
| Heater Indicator         | No Heater                        |
| Inverter Code            | Inverter Ready                   |
| KVA Code                 | J                                |
| Lifting Lugs             | Vertical Lifting Lugs            |
| Motor Standards          | NEMA                             |
| Mounting Arrangement     | V1                               |
| Number of Poles          | 4                                |
| Overall Length           | 28.71 IN                         |
| Product Family           | Other                            |
| Pulley End Bearing Type  | Ball                             |
| Pulley Face Code         | P-Base                           |

**Part Detail**

|              |               |
|--------------|---------------|
| Revision     | A             |
| Type         | AC            |
| Mech. spec.  |               |
| Base         |               |
| Status       | INA/A         |
| Elec. spec.  | A00008B E 011 |
| Layout       | 066930-017    |
| Eff. date    | 03-08-2024    |
| CD Diagram   |               |
| Poles        | 04            |
| Leads        |               |
| Proprietary  | False         |
| Created date | 04-09-2015    |

|                          |                            |
|--------------------------|----------------------------|
| Service Factor           | 1.15                       |
| Shaft Rotation           | Fixed Standard             |
| Shaft Slinger Indicator  | No Slinger                 |
| Speed Code               | Single Speed               |
| Starting Method          | Direct on line             |
| Thermal Device - Winding | Normally Closed Thermostat |

**Nameplate**

|                     |       |     |
|---------------------|-------|-----|
| 000613007RC         |       |     |
| CLASS I GROUP       | C D X | NO. |
| CLASS II GROUP      | X X X |     |
| OPERATING TEMP CODE | T3C   |     |

**000613007MN**

|             |              |      |           |                               |              |          |                       |       |        |           |  |
|-------------|--------------|------|-----------|-------------------------------|--------------|----------|-----------------------|-------|--------|-----------|--|
| CAT NO      |              |      |           | SPEC NO.                      |              | C18G2703 |                       |       |        |           |  |
| HP          | 3            | AMPS | 40.0/20.0 |                               | VOLTS        |          | 115/230               |       | DESIGN | L         |  |
| FRAME SIZE  | X0180TY      |      | RPM       | 1725                          | HZ           | 60       | AMB                   | 40    | SF     | 1.15      |  |
| D.E. BRG.   | 50BC02JPP30A |      |           | PH                            | 1            | DUTY     |                       | 15MIN | INSUL  | F         |  |
| O.D.E. BRG. | 25BC02JPG30A |      |           | TYPE                          | CS           | ENCL     |                       | TENV  | CODE   | J         |  |
|             |              |      |           | POWER FACTOR                  |              |          | NEMA-NOM-EFF          |       |        |           |  |
|             |              |      |           | MAX CORR KVAR                 |              |          | GUARANTEED EFFICIENCY |       |        |           |  |
|             |              |      |           | NEMA NOM/CSA QUOTED EFF @     |              |          |                       |       |        | 100% LOAD |  |
| SER.NO.     |              |      |           |                               | MOTOR WEIGHT |          |                       |       | LBS.   |           |  |
|             |              |      |           | *15 MIN IN AIR ,SUB. IN WATER |              |          |                       |       |        |           |  |
|             |              |      |           | ONLY; FINAL CONN @230V; MAX   |              |          |                       |       |        |           |  |
|             |              |      |           | DEPTH-REF TO INSTR MAN CW     |              |          |                       |       |        |           |  |

**000613007MR**

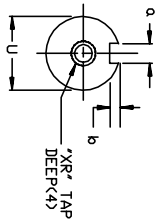
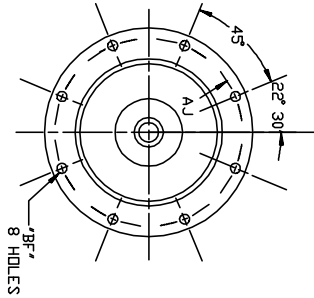
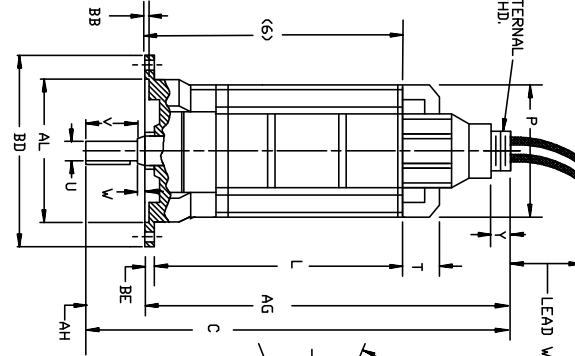
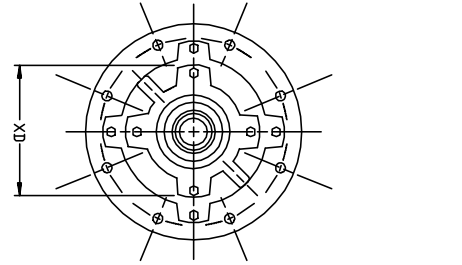
|             |                               |      |                           |          |              |      |         |                       |           |      |
|-------------|-------------------------------|------|---------------------------|----------|--------------|------|---------|-----------------------|-----------|------|
| CAT NO      |                               |      | SPEC NO.                  | C18G2703 |              |      |         |                       |           |      |
| HP          | 3                             | AMPS | 40.0/20.0                 |          | VOLTS        |      | 115/230 |                       | DESIGN    | L    |
| FRAME SIZE  | X0180TY                       |      | RPM                       | 1725     | HZ           | 60   | AMB     | 40                    | SF        | 1.15 |
| D.E. BRG.   | 50BC02JPP30A                  |      |                           | PH       | 1            | DUTY |         | 15MIN                 | INSUL     | F    |
| O.D.E. BRG. | 25BC02JPG30A                  |      |                           | TYPE     | CS           | ENCL | TENV    | CODE                  | J         |      |
|             |                               |      | POWER FACTOR              |          |              |      |         | NEMA-NOM-EFF          |           |      |
|             |                               |      | MAX CORR KVAR             |          |              |      |         | GUARANTEED EFFICIENCY |           |      |
|             |                               |      | NEMA NOM/CSA QUOTED EFF @ |          |              |      |         |                       | 100% LOAD |      |
| SER.NO.     |                               |      |                           |          | MOTOR WEIGHT |      |         |                       | LBS.      |      |
|             | *15 MIN IN AIR ,SUB. IN WATER |      |                           |          |              |      |         |                       |           |      |
|             | ONLY; FINAL CONN @230V; MAX   |      |                           |          |              |      |         |                       |           |      |
|             | DEPTH-REF TO INSTR MAN CW     |      |                           |          |              |      |         |                       |           |      |

| 000692000MB |  |
|-------------|--|
| ROTATION    |  |
| C18G2703L   |  |
|             |  |
|             |  |
|             |  |
|             |  |
|             |  |
|             |  |

066930-017

**DUTY MASTER ALTERNATING CURRENT MOTORS**  
SQUIREL-CAGE INDUCTION  
ENCLOSURE: TOTALLY ENCLOSED  
SUBMERSIBLE  
FRAME 140TY THRU 180TY

066930-017



DIMENSIONS ARE IN INCHES SEE SHEET 2 FOR MILLIMETERS

| FRAME | C     | L     | P    | T    | U(3)   | V    | W   | AG    | AH   | AJ    | AL(7)  |
|-------|-------|-------|------|------|--------|------|-----|-------|------|-------|--------|
| 140TY | 25.44 | 15.38 | 8.00 | 2.25 | 1.8750 | 1.25 | .31 | 23.88 | 1.59 | 10.00 | 9.125  |
| 180TY | 26.66 | 16.56 | 9.62 | 2.25 | 1.2500 | 2.00 | .28 | 24.38 | 1.28 | 11.50 | 10.625 |

| FRAME | BD(2)  | BE  | BF  | XR(4)  | LEAD CONNECTION |      |      |     | B. KEYWAY |     |        |        |
|-------|--------|-----|-----|--------|-----------------|------|------|-----|-----------|-----|--------|--------|
|       |        |     |     |        | X               | Y    | XD   | BB  | Q         | b   | LENGTH | WEIGHT |
| 140TY | 11.062 | .75 | .44 | 3/8-16 | 2-1/2-8         | 1.25 | 5.50 | .12 | .187      | .09 | 1.25   | 160    |
| 180TY | 12.375 | .75 | .56 | 1/2-13 | 2-1/2-8         | 1.25 | 6.75 | .12 | .250      | .12 | 1.12   | 200    |
|       |        |     |     |        |                 |      |      |     |           |     |        |        |
|       |        |     |     |        |                 |      |      |     |           |     |        |        |

- (1) SPECIAL DIMENSIONS ON THIS LINE.
- (2) "BD" VARIES ± .010.
- (3) "U" VARIES +.0000, -.0005.
- (4) TAP DEPTH ON 140TY IS .88, 180TY IS 1.38
- (5) LEAD WIRE LENGTH AS SPECIFIED ON CERTIFICATION
- (6) MINIMUM SUBMERGED DEPTH.
- (7) "AL" VARIES +.004, -.000.
- FACE RUNDUT AND ECCENTRICITY .008 MAX. T.I.R.  
PROTECTIVE CONDUIT FURNISHED BY CUSTOMER.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: CHANGE L DIM FROM 16.50 TO 16.56 (SH1)

REV. LTR: A

VERSION: 01

TDR: 000000837009

FILE: \RGG\00016\668

REVISED: 09:10:21 01/30/2014

BY: RGGWT

MTL: -

**BALDOR**

DIM SHT 140TY THRU 180TY

SH 1 of 2