

# **BALDOR**® • ***RELIANCE***

## **Product Information Packet**

# **SUM70756**

**7.50HP,1150RPM,3PH,60HZ,210TY,TENV,FOOT**

| Part Detail |       |                |       |             |               |               |            |
|-------------|-------|----------------|-------|-------------|---------------|---------------|------------|
| Revision:   | -     | Status:        | PRD/A | Change #:   |               | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    |       | Elec. Spec: | E00584-C-J001 | CD Diagram:   | 416820-1   |
| Enclosure:  | TENV  | Mfg Plant:     |       | Mech. Spec: |               | Layout:       | 066930-502 |
| Frame:      | 210TY | Mounting:      | V1    | Poles:      | 06            | Created Date: | 04-09-2015 |
| Base:       |       | Rotation:      | R     | Insulation: | F             | Eff. Date:    | 04-13-2015 |
| Leads:      |       |                |       |             |               | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |       |             |               |               |            |

|                       |       |                          |
|-----------------------|-------|--------------------------|
| Nameplate 000613007AC |       |                          |
| CLASS I GROUP         | C D X | NO. <input type="text"/> |
| CLASS II GROUP        | X X X |                          |
| OPERATING TEMP CODE   | T3C   |                          |
|                       |       |                          |

|                              |                              |                 |                      |   |                                  |           |             |               |           |      |
|------------------------------|------------------------------|-----------------|----------------------|---|----------------------------------|-----------|-------------|---------------|-----------|------|
| <b>Nameplate 000613007MN</b> |                              |                 |                      |   |                                  |           |             |               |           |      |
| <b>CAT NO</b>                | SUM70756                     | <b>SPEC NO.</b> | P21G2705             |   |                                  |           |             |               |           |      |
| <b>HP</b>                    | 7.5                          | <b>AMPS</b>     | 22.6/11.3            |   | <b>VOLTS</b>                     | 230/ 460  |             | <b>DESIGN</b> | B         |      |
| <b>FRAME SIZE</b>            | X210TY                       | <b>RPM</b>      | 1150                 |   | <b>HZ</b>                        | 60        | <b>AMB</b>  | 40            | <b>SF</b> | 1.15 |
| <b>D.E. BRG.</b>             | 60BC02JPP30A                 |                 | <b>PH</b>            | 3 | <b>DUTY</b>                      | *         |             | <b>INSUL</b>  | F         |      |
| <b>O.D.E. BRG.</b>           | 30BC02JPG30A                 |                 | <b>TYPE</b>          | P | <b>ENCL</b>                      | TENV      |             | <b>CODE</b>   | G         |      |
|                              |                              |                 | <b>POWER FACTOR</b>  |   | <b>NEMA-NOM-EFF</b>              |           |             |               |           |      |
|                              |                              |                 | <b>MAX CORR KVAR</b> |   | <b>GUARANTEED EFFICIENCY</b>     |           |             |               |           |      |
|                              |                              |                 |                      |   | <b>NEMA NOM/CSA QUOTED EFF @</b> | 100% LOAD |             |               |           |      |
| <b>SER.NO.</b>               |                              |                 |                      |   | <b>MOTOR WEIGHT</b>              | 350       | <b>LBS.</b> |               |           |      |
|                              | FINAL CONN@ 230V; *15 MIN IN |                 |                      |   |                                  |           |             |               |           |      |
|                              | AIR ".SUB. IN" WATER ONLY;   |                 |                      |   |                                  |           |             |               |           |      |
|                              | MAX DEPTH- SEE INSTR MANUAL; |                 |                      |   |                                  |           |             |               |           |      |

|                              |                              |                 |                      |   |                                  |           |             |               |           |      |
|------------------------------|------------------------------|-----------------|----------------------|---|----------------------------------|-----------|-------------|---------------|-----------|------|
| <b>Nameplate 000613007MR</b> |                              |                 |                      |   |                                  |           |             |               |           |      |
| <b>CAT NO</b>                | SUM70756                     | <b>SPEC NO.</b> | P21G2705             |   |                                  |           |             |               |           |      |
| <b>HP</b>                    | 7.5                          | <b>AMPS</b>     | 22.6/11.3            |   | <b>VOLTS</b>                     | 230/ 460  |             | <b>DESIGN</b> | B         |      |
| <b>FRAME SIZE</b>            | X210TY                       | <b>RPM</b>      | 1150                 |   | <b>HZ</b>                        | 60        | <b>AMB</b>  | 40            | <b>SF</b> | 1.15 |
| <b>D.E. BRG.</b>             | 60BC02JPP30A                 |                 | <b>PH</b>            | 3 | <b>DUTY</b>                      | *         |             | <b>INSUL</b>  | F         |      |
| <b>O.D.E. BRG.</b>           | 30BC02JPG30A                 |                 | <b>TYPE</b>          | P | <b>ENCL</b>                      | TENV      |             | <b>CODE</b>   | G         |      |
|                              |                              |                 | <b>POWER FACTOR</b>  |   | <b>NEMA-NOM-EFF</b>              |           |             |               |           |      |
|                              |                              |                 | <b>MAX CORR KVAR</b> |   | <b>GUARANTEED EFFICIENCY</b>     |           |             |               |           |      |
|                              |                              |                 |                      |   | <b>NEMA NOM/CSA QUOTED EFF @</b> | 100% LOAD |             |               |           |      |
| <b>SER.NO.</b>               |                              |                 |                      |   | <b>MOTOR WEIGHT</b>              | 350       | <b>LBS.</b> |               |           |      |
|                              | FINAL CONN@ 230V; *15 MIN IN |                 |                      |   |                                  |           |             |               |           |      |
|                              | AIR ".SUB. IN" WATER ONLY;   |                 |                      |   |                                  |           |             |               |           |      |
|                              | MAX DEPTH- SEE INSTR MANUAL; |                 |                      |   |                                  |           |             |               |           |      |

| Parts List  |  |          |
|-------------|--|----------|
| Part Number | Description                              | Quantity |
| SA297406    | SA P21G2705                              | 1.000 EA |
| RA284375    | RA P21G2705                              | 1.000 EA |
| 000613007AC | UL NAMEPLATE FOR HAZARDOUS LOCATIONS     | 1.000 EA |
| 000613007MN | NP,MEDIUM AC,NO CERT,STD INDUSTRIAL      | 1.000 EA |
| 000613007MR | NP, MEDIUM AC, CSA, STD INDUSTRIAL       | 1.000 EA |
| 000692000EJ | NAME PLATE                               | 1.000 EA |
| 000901001AA | LABEL WARNING                            | 1.000 EA |
| 034692002AE | HCSPP 1/4" 304 S.S.                      | 1.000 EA |
| 004824015A  | GREASE POLYREX EM                        | 1.000 LB |
| 032018012DG | HHCS 1/2-13X1-1/2 316S.S                 | 4.000 EA |
| 032130010DC | HSACS 1/2-13X1-1/4 304SS                 | 4.000 EA |
| 032620020JD | HSSS 10-24X5/8L 304S.S.                  | 1.000 EA |
| 034692003AE | PPLG 3/8" 304 S.S.                       | 2.000 EA |
| 047174005C  | SNAP RING                                | 1.000 EA |
| 047174005D  | SNAP RING                                | 1.000 EA |
| 064262012C  | SEAL                                     | 1.000 EA |
| 064262012D  | SEAL                                     | 1.000 EA |
| 088207001AA | BRKT,DE,210SUB 88207-1WA                 | 1.000 EA |
| 088208001AA | MTG PLATE EX210Y SUBMERSIBLE 088208001WB | 1.000 EA |
| 413412004A  | SUBM MOISTURE PROBE                      | 2.000 EA |
| 413412005S  | LEAD WIRE ASSY(BLANKET                   | 1.000 EA |
| 413480001R  | RESISTOR ASSEMBLY-BLANKET                | 1.000 EA |
| 421900144FU | ORING                                    | 1.000 EA |
| 421900144FU | ORING                                    | 1.000 EA |

| <b>Parts List (continued)</b> |                           |                 |
|-------------------------------|---------------------------|-----------------|
| <b>Part Number</b>            | <b>Description</b>        | <b>Quantity</b> |
| 603761001AA                   | LABYRINTH                 | 1.000 EA        |
| 001575000A                    | WIRING DIAGRAM            | 1.000 EA        |
| 032018006BM                   | HHCS 5/16-18X3/4 PLTGRN.  | 1.000 EA        |
| 032018010CG                   | HHCS 3/8-16X1-1/4L 316SS  | 4.000 EA        |
| 421900092FU                   | ORING                     | 1.000 EA        |
| 424476003WB                   | WIRING DIAGRAM MEDIUMA    | 1.000 EA        |
| 700385014M                    | CCA #8 25' 210/250        | 1.000 EA        |
| 033775004EA                   | DRSCR #6-1/4 304 S.S.     | 4.000 EA        |
| 034180009FD                   | KEY 3/8X3/8X1-1/8 303 SS  | 1.000 EA        |
| 088206001AB                   | BRKT,ODE,210SUB 88206-1WB | 1.000 EA        |
| 421900144FU                   | ORING                     | 1.000 EA        |
| 004824018AF                   | SHELL ROTELLA OIL 10W     | 2.500 LB        |
| 032018008BG                   | HHCS 5/16-18X1 BRASS-447  | 3.000 EA        |
| 032018012DG                   | HHCS 1/2-13X1-1/2 316S.S  | 4.000 EA        |
| 000901001AA                   | LABEL WARNING             | 1.000 EA        |
| B3630-9                       | SUBM THERMOSTAT TAG       | 1.000 EA        |
| B-3664002                     | TAG, (NON REGREASABLE)    | 1.000 EA        |

|           |             |                   |           |  |             |         |
|-----------|-------------|-------------------|-----------|--|-------------|---------|
| REL. S.O. | FRAME       | HP                | TYPE      | PHASE/HERTZ                                | RPM         | VOLTS   |
|           | 210TY       | 7.5               | P         | 3/60                                       | 1150        | 230/460 |
| AMPS      | DUTY        | AMB °C/<br>INSUL. | S.F.      | NEMA DESIGN                                | CODE LETTER | ENCL.   |
| 22.6/11.3 | *           | 40/F              | 1.15      | B  | G           | SUB     |
| E/S       | ROTOR       | TEST S.O.         | TEST DATE | STATOR RES. @25 °C<br>(OHMS BETWEEN LINES) |             |         |
| 584215    | 418425046TE | ---               | ---       | .513/2.05                                  |             |         |

**PERFORMANCE**


| LOAD    | HP   | AMPERES | RPM  | INPUT KW | % POWER FACTOR | % EFFICIENCY |
|---------|------|---------|------|----------|----------------|--------------|
| NO LOAD | 0    | 5.5     | 1200 | .580     | 13.2           | 0            |
| 1/4     | 1.88 | 6.2     | 1188 | 2.02     | 41.0           | 69.3         |
| 2/4     | 3.75 | 7.4     | 1177 | 3.53     | 59.6           | 79.2         |
| 3/4     | 5.63 | 9.2     | 1165 | 5.14     | 70.2           | 81.7         |
| 4/4     | 7.50 | 11.3    | 1152 | 6.84     | 75.7           | 81.7         |
| 5/4     | 9.37 | 13.8    | 1136 | 8.69     | 79.1           | 80.5         |

**SPEED TORQUE**

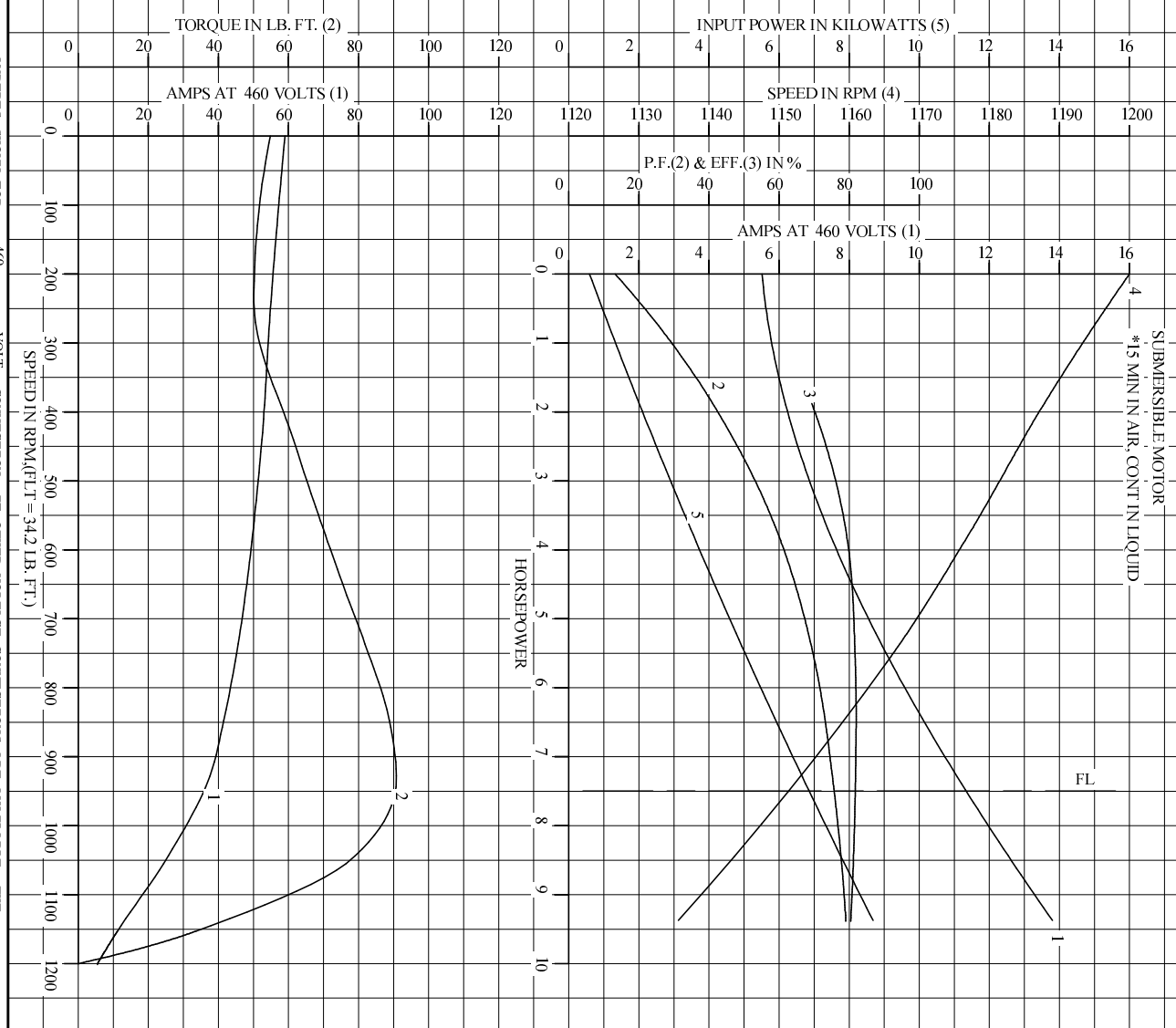
|              | RPM  | TORQUE<br>% FULL LOAD | TORQUE<br>LB.-FT. | AMPERES |
|--------------|------|-----------------------|-------------------|---------|
| LOCKED ROTOR | 0    | 160                   | 54.8              | 59.0    |
| PULL UP      | 240  | 147                   | 50.1              | 55.0    |
| BREAKDOWN    | 934  | 266                   | 90.8              | 37.2    |
| FULL LOAD    | 1152 | 100                   | 34.2              | 11.3    |

AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: CALCULATED DATA  
SUBMERSIBLE MOTOR  
\*15 MIN IN AIR, CONT IN LIQUID

|   |         |                |   |
|---|---------|----------------|---|
|  | DR. BY  | D. M. BYRD     | <b>A-C MOTOR<br/>PERFORMANCE<br/>DATA</b><br>E00584-C-J001<br>ISSUE DATE 11/15/05 |
|   | CK. BY  | T. S. WILLIAMS |   |
|   | APP. BY | D. M. BYRD     |   |
|   | DATE    | 11/15/05       |   |

RBL S.O. RPM 1150 S.F. 1.15 ROTOR 418425046TE  
 FRAME 210TY VOLTS 230/460 NEMA DESIGN B TEST S.O. CALCULATED DATA  
 HP 7.5 AMPS 22.6/11.3 CODE LETTER G TEST DATE ---  
 TYPE P DUTY \* ENCLOSURE SUB STATOR RES. @ 25 °C .513/2.05  
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 584215 OHMS (BETWEEN LINES)



**BALDOR** BALDOR • DOUGLASS • RELIANCE

DR. BY D.M.BYRD  
 CK. BY T.S.WILLIAMS  
 APP. BY D.M.BYRD  
 DATE 11/15/05

**A-C MOTOR**  
**PERFORMANCE**  
**CURVES**

E00584-C-J001  
 ISSUE DATE 11/15/05

Printed on 11/6/07 16:58 @ umghengdev1

