

BALDOR® • RELIANCE

Product Information Packet

SUM70306

3HP, 1160RPM, 3PH, 60HZ, 180TY, TENV, FOOTLES

| Part Detail | | | | | | | |
|-------------|-------|----------------|-------|-------------|---------------|---------------|------------|
| Revision: | - | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Prod. Type: | | Elec. Spec: | E02769-A-A005 | CD Diagram: | 416820-1 |
| Enclosure: | TENV | Mfg Plant: | | Mech. Spec: | | Layout: | 066930-500 |
| Frame: | 180TY | 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 | |
| | | |

| | | | | | | | | | | |
|-----------------------|-------------------------------|----------|---------------|---|---------------------------|----------|-----|-----------------------|----|------|
| Nameplate 000613007MN | | | | | | | | | | |
| CAT NO | SUM70306 | SPEC NO. | P18G2707 | | | | | | | |
| HP | 3 | AMPS | 10.4/5.20 | | VOLTS | 230/ 460 | | DESIGN | B | |
| FRAME SIZE | X180TY | RPM | 1160 | | HZ | 60 | AMB | 40 | SF | 1.15 |
| D.E. BRG. | 50BC02JPP30A | | PH | 3 | DUTY | * | | INSUL | F | |
| O.D.E. BRG. | 25BC02JPG30A | | TYPE | P | ENCL | TENV | | CODE | H | |
| | | | POWER FACTOR | | | | | NEMA-NOM-EFF | | |
| | | | MAX CORR KVAR | | | | | GUARANTEED EFFICIENCY | | |
| | | | | | NEMA NOM/CSA QUOTED EFF @ | | | 100% LOAD | | |
| SER.NO. | | | | | MOTOR WEIGHT | 100 | | LBS. | | |
| | *15 MIN IN AIR ;SUB.IN | | | | | | | | | |
| | WATER/SEWAGE ONLY; FINAL CONN | | | | | | | | | |
| | 230V SEE MANUAL FOR MAXDEPTH; | | | | | | | | | |

| | | | | | | | | | | |
|-----------------------|-------------------------------|----------|---------------|---|---------------------------|----------|-----|-----------|----|------|
| Nameplate 000613007MR | | | | | | | | | | |
| CAT NO | SUM70306 | SPEC NO. | P18G2707 | | | | | | | |
| HP | 3 | AMPS | 10.4/5.20 | | VOLTS | 230/ 460 | | DESIGN | B | |
| FRAME SIZE | X180TY | RPM | 1160 | | HZ | 60 | AMB | 40 | SF | 1.15 |
| D.E. BRG. | 50BC02JPP30A | | PH | 3 | DUTY | * | | INSUL | F | |
| O.D.E. BRG. | 25BC02JPG30A | | TYPE | P | ENCL | TENV | | CODE | H | |
| | | | POWER FACTOR | | NEMA-NOM-EFF | | | | | |
| | | | MAX CORR KVAR | | GUARANTEED EFFICIENCY | | | | | |
| | | | | | NEMA NOM/CSA QUOTED EFF @ | | | 100% LOAD | | |
| SER.NO. | | | | | MOTOR WEIGHT | 100 | | LBS. | | |
| | *15 MIN IN AIR ;SUB.IN | | | | | | | | | |
| | WATER/SEWAGE ONLY; FINAL CONN | | | | | | | | | |
| | 230V SEE MANUAL FOR MAXDEPTH; | | | | | | | | | |

| Parts List | | |
|-------------|--------------------------------------|----------|
| Part Number | Description | Quantity |
| SA297475 | SA P18G2707 | 1.000 EA |
| RA284444 | RA P18G2707 | 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 |
| 001575000A | WIRING DIAGRAM | 1.000 EA |
| 424476003WB | WIRING DIAGRAM MEDIUMA | 1.000 EA |
| 034692002AE | HCSPP 1/4" 304 S.S. | 1.000 EA |
| 004824015A | GREASE POLYREX EM | 0.100 LB |
| 032018010CG | HHCS 3/8-16X1-1/4L 316SS | 4.000 EA |
| 032130008CC | HSACS 3/8-16 X 1.00" L | 4.000 EA |
| 032620020JD | HSSS 10-24X5/8L 304S.S. | 1.000 EA |
| 034692003AE | PPLG 3/8" 304 S.S. | 2.000 EA |
| 047174005B | SNAP RING | 1.000 EA |
| 047174005C | SNAP RING | 1.000 EA |
| 064262012B | SEAL | 1.000 EA |
| 064262012C | SEAL | 1.000 EA |
| 088204001AA | BRKT,DE,180SUB 88204-1WA | 1.000 EA |
| 088205001AA | SUB PLT 180 88205-1WC | 1.000 EA |
| 413412004A | SUBM MOISTURE PROBE | 2.000 EA |
| 413412005R | LEAD WIRE ASSY(BLANKET | 1.000 EA |
| 413480001R | RESISTOR ASSEMBLY-BLANKET | 1.000 EA |

| Parts List (continued) | | |
|------------------------|---------------------------|----------|
| Part Number | Description | Quantity |
| 421900124FU | ORING | 1.000 EA |
| 421900124FU | ORING | 1.000 EA |
| 603760001AA | LABYRINTH | 1.000 EA |
| 032018006BM | HHCS 5/16-18X3/4 PLTGRN. | 1.000 EA |
| 032018006BM | HHCS 5/16-18X3/4 PLTGRN. | 1.000 EA |
| 032018008BG | HHCS 5/16-18X1 BRASS-447 | 4.000 EA |
| 032080003JB | HWHMS 10-24X3/8L PLTED | 4.000 EA |
| 032080003LB | HWHMS 1/4-20X3/8L PLTED | 4.000 EA |
| 034036013AB | LCKW 5/16 EXT.TOOTH LCKW | 1.000 EA |
| 047024003AH | T/LUG AMP 34112 | 4.000 EA |
| 047024003B | T/LUG AMP 33218 | 9.000 EA |
| 415031017A | NUT W/WASHER 10-24 C.PLT | 4.000 EA |
| 415031017B | NUT W/WASHER1/4-20 C.P | 4.000 EA |
| 421900072FU | ORING | 1.000 EA |
| 609181014D | HEAT SHRINK TUBING 3/4 | 8.000 EA |
| 700385014E | CCA #14 25' 180 | 1.000 EA |
| 004824007K | SPECIAL PAINT | 0.100 EA |
| 033775004EA | DRSCR #6-1/4 304 S.S. | 4.000 EA |
| 034180009DD | KEY 1/4X1/4X1-1/8L | 1.000 EA |
| 088203001AB | BRKT,ODE,180SUB 88203-1WB | 1.000 EA |
| 421900124FU | ORING | 1.000 EA |
| 004824018AF | SHELL ROTELLA OIL 10W | 1.500 LB |
| 032018006AG | HHCS 1/4-20X3/4L 316 SS | 3.000 EA |
| 032018010CG | HHCS 3/8-16X1-1/4L 316SS | 4.000 EA |

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| | | |
|-------------|------------------------|----------|
| 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 |
| | L184T | 3 | P | 3/60 | 1160 | 230/460 |
| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
| 10.4/5.2 | * | 40/F | 1.15 | B | H | SUB |
| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES. @25 °C (BETWEEN LINES) | | |
| 536363 | 418424-33BE | --- | --- | 1.28/5.13 | | |

PERFORMANCE


| LOAD | HP | AMPERES | RPM | INPUT KW | % POWER FACTOR | % EFFICIENCY |
|---------|------|---------|------|----------|----------------|--------------|
| NO LOAD | 0 | 2.7 | 1200 | .374 | 17.6 | 0 |
| 1/4 | .75 | 3.0 | 1189 | .949 | 39.3 | 58.9 |
| 2/4 | 1.50 | 3.6 | 1180 | 1.55 | 54.4 | 72.0 |
| 3/4 | 2.25 | 4.3 | 1170 | 2.19 | 63.8 | 76.6 |
| 4/4 | 3.00 | 5.2 | 1159 | 2.87 | 69.3 | 78.0 |
| 5/4 | 3.75 | 6.1 | 1145 | 3.60 | 73.6 | 77.8 |

SPEED TORQUE

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|--------------|------|--------------------|----------------|---------|
| LOCKED ROTOR | 0 | 173 | 23.5 | 26.0 |
| PULL UP | 0 | 173 | 23.5 | 26.0 |
| BREAKDOWN | 969 | 254 | 34.5 | 14.8 |
| FULL LOAD | 1159 | 100 | 13.6 | 5.2 |

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
*15MIN IN AIR, CONT IN LIQUID

| | | |
|---|--|---|
|  | DR. BY D. M. BYRD | A-C MOTOR PERFORMANCE DATA E02769-A-A005 ISSUE DATE 08/08/05 |
| | CK. BY T. S. WILLIAMS APP. BY D. M. BYRD DATE 08/08/05 | |

