

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **D5020P**

**20HP,1750/2300RPM,DC,259AT,DPFG,F1**

| Part Detail |   |             |       |                |  |               |            |
|-------------|---|-------------|-------|----------------|--|---------------|------------|
| Revision:   | C | Status:     | PRD/A | Change #:      |  | Proprietary:  | No         |
| Type:       |   | Prod. Type: |       | Elec. Spec:    |  | CD Diagram:   |            |
| Enclosure:  |   | Mfg Plant:  |       | Mech. Spec:    |  | Layout:       | 876-1      |
| Frame:      |   | Mounting:   |       | Poles:         |  | Created Date: | 02-17-2014 |
| Base:       |   | Rotation:   | R     | Insulation:    |  | Eff. Date:    | 11-19-2014 |
| Field Type: |   | Literature: |       | Elec. Diagram: |  | Replaced By:  |            |

| Nameplate NP1734 |          |           |                    |        |             |     |   |
|------------------|----------|-----------|--------------------|--------|-------------|-----|---|
| CAT.NO.          | D5020P   | MODEL     | T25R8005           |        |             |     |   |
| HP               | 20       | RPM       | 1750/ 2300         | FRAME  | 259AT       |     |   |
| ARM V            | 500      | ARM A     | 35.10              | WOUND  | STR. SHUNT  |     |   |
| FLD V            | 150/ 300 | FLD A     | 2.48-1.50/1.24-.75 |        |             |     |   |
| CONN             |          | OHMS      |                    | CL     | F           |     |   |
| ENCL             | DPFG     | DUTY      | CONT               | MX AMB | 40          |     |   |
| P CODE           | D        | CTSR      |                    | SER.F. | 1.0         |     |   |
| S/N              |          | E/S       | K00038A A          |        |             |     |   |
|                  |          |           |                    |        |             |     |   |
|                  |          |           |                    |        |             |     |   |
| O.D.E. BRG.      | 6207     | D.E. BRG. | 6209               | BRUSH  | 150986-25-1 | QTY | 2 |

| Parts List    |                                          |          |
|---------------|------------------------------------------|----------|
| Part Number   | Description                              | Quantity |
| SA279600      | SA T25R8005                              | 1.000 EA |
| AA015320      | AA T25R8005                              | 1.000 EA |
| NP1734        | NPL,BALDOR DC MTR ALUMINUM               | 1.000 EA |
| 15209         | NAMEPLATE & TERMINAL MARKINGS            | 1.000 EA |
| 032018004BK   | HHCS 5/16-18X1/2 PLATED                  | 2.000 EA |
| 25017-1       | FAN MACHINING FRAME 25 SERIES            | 1.000 EA |
| 25029         | BALANCE RING,4.19"OD X 3.130"ID,7GA STEE | 2.000 EA |
| 034141177AA   | EXT SNAP RING                            | 1.000 EA |
| 15553-797     | KEY .250/.248 SQ X 7.97 LONG             | 1.000 EA |
| 25028         | ROTOR WASHER FRAME 25 SERIES 1.819 ID,   | 1.000 EA |
| 613410001B    | BDSHF                                    | 1.000 EA |
| 032018016CK   | HHCS 3/8-16X2 PLATE                      | 4.000 EA |
| 032018016CK   | HHCS 3/8-16X2 PLATE                      | 4.000 EA |
| 25028         | ROTOR WASHER FRAME 25 SERIES 1.819 ID,   | 1.000 EA |
| 046001026F    | THERMOSTAT                               | 1.000 EA |
| 25022-1       | INTERPOLE STACK                          | 2.000 EA |
| 424504009BC   | 250 SHIMS M2                             | 1.000 EA |
| 424508151A    | BALDOR ROUND DC FRAME INSULATION B/M     | 1.000 EA |
| 034141137AA   | SNAP RING                                | 1.000 EA |
| 15094         | DISHED LOCKWASHER .332 ID, .865 OD       | 2.000 EA |
| 150986-25-1SP | BRUSH,250 FR. SERIES E-41,HELWIG CARB.PR | 2.000 EA |
| 25686-1       | ROCKER RING ASSY FR 250                  | 1.000 EA |
| 032130010CA   | 3/8-16 X 1.25 HSHCS                      | 4.000 EA |
| 25066-6       | FE BRKT MACH FR 250 FOR LOCKED ODE       | 1.000 EA |

| Parts List (continued) |                                          |           |
|------------------------|------------------------------------------|-----------|
| Part Number            | Description                              | Quantity  |
| HW5100A09              | W3328-036 WVY WSHR (WB)                  | 1.000 EA  |
| 032018003AK            | HHCS 1/4-20X3/8L PLATED                  | 4.000 EA  |
| 032018004AK            | HHCS 1/4-20X1/2 PLATED                   | 4.000 EA  |
| 15599-37               | DRIVE SCR,#10 X.37 TYPE UPLATED STEEL    | 5.000 EA  |
| 25106                  | GASKET,TERM BOX,1/8"CORK NEOPRENE(DC-205 | 1.000 EA  |
| 25108-1                | GASKET,TERM BOX,1/8"CORK NEOPRENE(DC-205 | 2.000 EA  |
| 28022-1                | VENT GUARD,WITH LOUVERS                  | 1.000 EA  |
| 482415000A             | GREASE (MOBIL POLYREX EM)                | 1.360 LB  |
| 032130010CA            | 3/8-16 X 1.25 HSHCS                      | 4.000 EA  |
| 032130016AA            | HSHCS                                    | 2.000 EA  |
| 035000001A             | ALFTG 1/8" 1610-BL                       | 1.000 EA  |
| 035000001A             | ALFTG 1/8" 1610-BL                       | 1.000 EA  |
| 25034-6                | CE BRKT MACH FR 250 LOCK ODE BRG         | 1.000 EA  |
| HW4500A17              | 317400 ALEMITE GREASE RELIEF             | 1.000 EA  |
| 032018004BK            | HHCS 5/16-18X1/2 PLATED                  | 2.000 EA  |
| HW4500A17              | 317400 ALEMITE GREASE RELIEF             | 1.000 EA  |
| 15094                  | DISHED LOCKWASHER .332 ID, .865 OD       | 2.000 EA  |
| 032018004AK            | HHCS 1/4-20X1/2 PLATED                   | 2.000 EA  |
| 032018004AK            | HHCS 1/4-20X1/2 PLATED                   | 28.000 EA |
| 032018006DK            | HHCS 1/2-13X3/4 PLATED                   | 4.000 EA  |
| 15021-1                | ACCESSORY FACE COVER FRAME 180-500 SERIE | 1.000 EA  |
| 150449-25              | T BOX GRD STUD ARG 1/4 20 DIA. STUD      | 1.000 EA  |
| 25036-1                | ACCESS COVER ODE, FR 250 SERIES          | 1.000 EA  |
| 25048-1                | CVR GASKET,CE,FR-250 3/32 THK CORK/N     | 3.000 EA  |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 25048-2                | CVR GASKET,FE,FR-250 3/32 THK CORK/NEO   | 3.000 EA |
| 25062-1                | LOUVER COVER,CE,FR-250 18GA C.R. STEE    | 2.000 EA |
| 25062-2                | LOUVER COVER,FE,FR-250 18GA C.R. STEEL   | 3.000 EA |
| 25109                  | TERMINAL BOX BASE FR 250                 | 1.000 EA |
| 25110                  | TERMINAL BOX COVER FR 250                | 1.000 EA |
| 25111                  | GASKET,COVER,1/8"THK CORK/NEOPRENE (DC-2 | 1.000 EA |
| MG1025G05              | MEDIUM CHARCOAL METALLIC GREY            | 0.100 GA |
| 034180018FA            | KEY 3/8 SQ X 2.25"                       | 1.000 EA |
| PA1100                 | PACK FOR #1 SKID; CUSTOM                 | 1.000 EA |
| MG5047                 | VARNISH 004824-001HM                     | 0.200 GA |
| 609848007C             | NOMEX WASHER, ROUND DC 2POLE ODE         | 1.000 EA |
| LB1171                 | LABEL CARTON 6X6 ON LINE BLANK ROLLS     | 1.000 EA |
| 482413015Y             | #15 SLVG                                 | 6.000 FT |
| 482413008Y             | #8 SLEEVING (GREEN)                      | 6.000 FT |
| 041009029B             | CONNECTOR, RTD                           | 4.000 EA |
| 041009029E             | #8 BUTT CONNECTOR                        | 3.000 EA |
| MN605                  | INTEGRAL HP DC MOTORS 2/09               | 1.000 EA |

| Accessories |                                          |            |
|-------------|------------------------------------------|------------|
| Part Number | Description                              | Multiplier |
| 92EP5000A01 | C-FACE CONVERSION KIT FOR STOCK MTR,FR 2 |            |

No performance data has been  
assigned to this product.



|        | FOOT MOUNTING |      |       |     |      |      | D.E. SHAFT EXTENSION |      |       |                   |     | DRIVE KEY |          | ACC SHAFT |       | ACC KEY |         | FRAME    |       |       |       |       |                   |       |       |
|--------|---------------|------|-------|-----|------|------|----------------------|------|-------|-------------------|-----|-----------|----------|-----------|-------|---------|---------|----------|-------|-------|-------|-------|-------------------|-------|-------|
| FRAME  | BA            | E    | 2F    | G   | H    | J    | N                    | N-W  | U     | V                 | W   | KEY-SQ.   | KEY-LONG | FA        | FU    | FV      | KEY-SQ. | KEY-LONG | A     | B     | C     | FC    | D                 | O     |       |
| 218AT  | 3.50          | 4.25 | 10.00 | .50 | .406 | 2.00 | 3.00                 | 2.75 | 1.375 | 2.50 <sup>3</sup> | .25 | .312      | 1.75     | 2.44      | 1.125 | 2.19    | .250    | 2.25     | 10.38 | 11.00 | 24.25 | 25.93 | 5.25 <sup>2</sup> | 10.47 | 10.44 |
| 219AT  | 3.50          | 4.25 | 11.00 | .50 | .406 | 2.00 | 3.00                 | 2.75 | 1.375 | 2.50 <sup>3</sup> | .25 | .312      | 1.75     | 2.44      | 1.125 | 2.19    | .250    | 2.25     | 10.38 | 12.00 | 25.25 | 26.93 | 5.25 <sup>2</sup> | 10.47 | 10.44 |
| 2110AT | 3.50          | 4.25 | 12.50 | .50 | .406 | 2.00 | 3.00                 | 2.75 | 1.375 | 2.50 <sup>3</sup> | .25 | .312      | 1.75     | 2.44      | 1.125 | 2.19    | .250    | 2.25     | 10.38 | 13.50 | 26.75 | 28.43 | 5.25 <sup>2</sup> | 10.47 | 10.44 |
| 258AT  | 4.25          | 5.00 | 12.50 | .69 | .531 | 2.25 | 3.44                 | 3.25 | 1.625 | 3.00 <sup>3</sup> | .19 | .375      | 2.31     | 3.33      | 1.375 | 3.08    | .312    | 3.00     | 12.38 | 14.00 | 27.25 | 29.84 | 6.25 <sup>2</sup> | 12.47 | 12.44 |
| 259AT  | 4.25          | 5.00 | 14.00 | .69 | .531 | 2.25 | 3.44                 | 3.25 | 1.625 | 3.00 <sup>3</sup> | .19 | .375      | 2.31     | 3.33      | 1.375 | 3.08    | .312    | 3.00     | 12.38 | 15.50 | 28.75 | 31.34 | 6.25 <sup>2</sup> | 12.47 | 12.44 |
| 2510AT | 4.25          | 5.00 | 16.00 | .69 | .531 | 2.25 | 3.44                 | 3.25 | 1.625 | 3.00 <sup>3</sup> | .19 | .375      | 2.31     | 3.33      | 1.375 | 3.08    | .312    | 3.00     | 12.38 | 17.56 | 30.75 | 33.34 | 6.25 <sup>2</sup> | 12.47 | 12.44 |
| 2513AT | 4.25          | 5.00 | 22.00 | .69 | .531 | 2.25 | 3.44                 | 3.25 | 1.625 | 3.00 <sup>3</sup> | .19 | .375      | 2.31     | 3.33      | 1.375 | 3.08    | .312    | 3.00     | 12.38 | 23.50 | 36.75 | 39.34 | 6.25 <sup>2</sup> | 12.47 | 12.44 |

|        | CONDUIT BOX |      |      |      |       |      |      | ARM APPROX.<br>WK <sup>2</sup><br>LBS.FT. <sup>2</sup> | APPROXIMATE<br>WEIGHT |
|--------|-------------|------|------|------|-------|------|------|--------------------------------------------------------|-----------------------|
| FRAME  | AA          | AB   | AC   | AF   | BS    | XL   | XN   |                                                        |                       |
| 218AT  | 3/4-1       | 7.91 | 6.44 | 2.44 | 8.38  | 3.81 | 3.12 | 1.35                                                   | 242 <sup>5</sup>      |
| 219AT  | 3/4-1       | 7.91 | 6.44 | 2.44 | 9.38  | 3.81 | 3.12 | 1.49                                                   | 260 <sup>5</sup>      |
| 2110AT | 3/4-1       | 7.91 | 6.44 | 2.44 | 10.88 | 3.81 | 3.12 | 1.71                                                   | 286 <sup>5</sup>      |
| 2258AT | 1 1/4       | 9.35 | 7.72 | 2.94 | 9.75  | 4.94 | 4.00 | 2.91                                                   | 366 <sup>5</sup>      |
| 2259AT | 1 1/4       | 9.35 | 7.72 | 2.94 | 11.25 | 4.94 | 4.00 | 3.31                                                   | 411 <sup>5</sup>      |
| 2510AT | 1 1/4       | 9.35 | 7.72 | 2.94 | 13.25 | 4.94 | 4.00 | 3.80                                                   | 471 <sup>5</sup>      |
| 2513AT | 1 1/4       | 9.35 | 7.72 | 2.94 | 19.25 | 4.94 | 4.00 | 5.27                                                   | 532 <sup>5</sup>      |

- 1) SHAFT DIAMETERS TO 1.500 TOLERANCE +.0000 - .0005
- 2) SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.0000 -.0010
- 3) SHAFT DIAMETERS TO 1.625 RUNOUT .002 T.I.R. MAX.
- 4) SHAFT DIAMETERS ABOVE 1.625 RUNOUT .003 T.I.R. MAX.
- 5) "D" DIMENSION TOLERANCE +.000 - .060
- 6) "V" DIMENSION IS MAX. HUB LENGTH ON SHAFT
- 7) CONDUIT BOX CAN BE ROTATED IN 90° STEPS ON ITS OWN AXIS.
- 8) TOTAL WEIGHT OF MOTOR.
- 9) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

FOR F1 OR F2 CONDUIT BOX  
LOCATION SEE SALES ORDER

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

|                                             |                              |                   |
|---------------------------------------------|------------------------------|-------------------|
| REV. DESC: REV. "D" DIM TO +.000 -.060 ONLY |                              |                   |
| REV. LTR: B                                 | VERSION: 01                  | TDR: 000000752566 |
| FILE: \RGG\00019\505                        | REVISED: 09:35:03 06/20/2012 | BY: RGGNAS        |
| MTL: -                                      |                              |                   |

**BALDOR**  
DIM SHEET,218AT-2513AT,DPFG,STD  
SH 1 of 1