

**BALDOR® • RELIANCE** 

**Product Information Packet**

**D2510P**

**10HP, 1750/2300RPM, DC, 259AT, TEFC, F1**

| Part Detail |    |             |       |                |    |               |            |
|-------------|----|-------------|-------|----------------|----|---------------|------------|
| Revision:   | C  | Status:     | PRD/A | Change #:      |    | Proprietary:  | No         |
| Type:       | DC | Prod. Type: |       | Elec. Spec:    |    | CD Diagram:   |            |
| Enclosure:  |    | Mfg Plant:  |       | Mech. Spec:    |    | Layout:       | 885-2      |
| Frame:      |    | Mounting:   |       | Poles:         | 00 | Created Date: | 02-17-2014 |
| Base:       |    | Rotation:   | R     | Insulation:    |    | Eff. Date:    | 10-28-2016 |
| Field Type: |    | Literature: |       | Elec. Diagram: |    | Replaced By:  |            |

| Specs                     |                         |  |  |
|---------------------------|-------------------------|--|--|
| Frame:                    | 259AT                   |  |  |
| Frame Material:           | Steel                   |  |  |
| Agency Approvals:         | CSA                     |  |  |
| Base Indicator:           | Rigid                   |  |  |
| Bearing Grease Type:      | Polyrex EM (-20F +300F) |  |  |
| Drip Cover:               | No Drip Cover           |  |  |
| Feedback Device:          | NO FEEDBACK             |  |  |
| Heater Indicator:         | No Heater               |  |  |
| Insulation Class:         | F                       |  |  |
| Lifting Lugs:             | No Lifting Lugs         |  |  |
| Shaft Extension Location: | Double Shaft            |  |  |
| Shaft Ground Indicator:   | No Shaft Grounding      |  |  |
| Shaft Slinger Indicator:  | No Slinger              |  |  |
| Motor Standards:          | NEMA                    |  |  |

| Nameplate NP1734 |                          |           |                   |           |          |             |     |  |     |   |
|------------------|--------------------------|-----------|-------------------|-----------|----------|-------------|-----|--|-----|---|
| CAT.NO.          | D2510P                   |           |                   | MODEL     | T25R8007 |             |     |  |     |   |
| HP               | 10                       | RPM       | 1750/ 2300        |           | FRAME    | 259AT       |     |  |     |   |
| ARM V            | 240                      | ARM A     | 34.30             |           | WOUND    | STR. SHUNT  |     |  |     |   |
| FLD V            | 300                      | FLD A     | .86-1.16/1.26-.58 |           |          |             |     |  |     |   |
| CONN             |                          | OHMS      | 247.9             |           |          | CL          | F   |  |     |   |
| ENCL             | TEFC                     | DUTY      | CONT              |           |          | MX AMB      | 40  |  |     |   |
| P CODE           | D                        | CTSR      |                   |           |          | SER.F.      | 1.0 |  |     |   |
| S/N              |                          |           | E/S               | K00039A A |          |             |     |  |     |   |
|                  | FLD. DATA FOR HIGH VOLTS |           |                   |           |          |             |     |  |     |   |
|                  | FLD. VOLTS 150/300       |           |                   |           |          |             |     |  |     |   |
| O.D.E. BRG.      | 6207                     | D.E. BRG. | 6209              |           | BRUSH    | 150986-25-1 |     |  | QTY | 2 |

| Parts List  |  |          |
|-------------|--|----------|
| Part Number | Description                              | Quantity |
| SA281209    | SA T25R8007                              | 1.000 EA |
| AA015377    | AA T25R8007                              | 1.000 EA |
| NP1734      | NPL,BALDOR DC MTR ALUMINUM               | 1.000 EA |
| 15209       | LABEL CONNECTIONS & TERMINAL MARKIN      | 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             | 1.000 EA |
| 25028       | ROTOR WASHER FRAME 25 SERIES             | 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 |
| 046001026J  | THERM N/C S06-145                        | 1.000 EA |
| 25022-1     | INTERPOLE STACK                          | 2.000 EA |
| 424504009CB | 250 SHIMS                                | 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 |
| 032130010CA | 3/8-16 X 1.25 HSHCS                      | 4.000 EA |
| 25066-6     | FE BRKT MACH FR 250 FOR LOCKED ODE       | 1.000 EA |
| HW5100A09   | W3328-036 WVY WSHR (WB)                  | 1.000 EA |
| 032018003AK | HHCS 1/4-20X3/8L PLATED                  | 4.000 EA |

| Parts List (continued) |   |          |
|------------------------|---|----------|
| Part Number            | Description                               | Quantity |
| 032018004AK            | HHCS 1/4-20X1/2 PLATED                    | 4.000 EA |
| 032018006CK            | HHCS 3/8-16X3/4L PLATED                   | 4.000 EA |
| 032018006DK            | HHCS 1/2-13X3/4 PLATED                    | 4.000 EA |
| 032018010DK            | HHCS 1/2-13X1-1/4 PLATED                  | 4.000 EA |
| 032620032KB            | HSSS 1/4-20X1" PLTD - 360                 | 2.000 EA |
| 033100012AB            | 1/4-20 HX MACH SCREW NUT                  | 4.000 EA |
| 15021-2                | ACC.FACE SCRIN,1/2 #13/15 FLTND. EXP.META | 1.000 EA |
| 15442                  | COVER RING TEFC ACC FACE #14 GA CR        | 1.000 EA |
| 15567-100              | KEY .312/.310 SQ                          | 1.000 EA |
| 15599-37               | DRIVE SCR,#10 X.37 TYPE UPLATED STEEL     | 5.000 EA |
| 15832-31               | SET SCR 5/16-18,CUP POINTBLK.OXIDE,H.GR.  | 2.000 EA |
| 25071-1                | 'C' FACE COVER MACH ACC, FR 25, T.E.F.C.  | 1.000 EA |
| 25072-1                | FAN MACHINING FRAME 250, T.E.F.C.         | 1.000 EA |
| 25106                  | TERMINAL BOX HOLE COVER, FR 250           | 1.000 EA |
| 25108-1                | GASKET,TERM BOX,1/8"CORK NEOPRENE(DC-205  | 1.000 EA |
| 25458                  | SHROUD & GUARD ASSY 250 SERIES            | 1.000 EA |
| 28022-2                | SOLID SMILE COVER,FR 280                  | 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 |
| 15185-13               | LUBE EXTENSION 1.38 LENGTH                | 1.000 EA |
| 15185-3                | LUBE EXTENSION 2.50 LGTH                  | 1.000 EA |
| 15548-2                | LUB FITTING,PRESS-IN ALEMITE #1743-B/EQ   | 1.000 EA |

Product Information Packet: D2510P - 10HP,1750/2300RPM,DC,259AT,TEFC,F1

|             |  |           |
|-------------|--|-----------|
| 15548-3     | GREASE RELIEF,PRESS-IN ALEMITE #321381/E | 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  |
| 15094       | DISHED LOCKWASHER .332 ID, .865 OD       | 2.000 EA  |
| 150986-25-1 | BRUSH,250 FR. SERIES E-41,HELWIG CARB.PR | 2.000 EA  |
| 25686-1     | ROCKER RING ASSY FR 250                  | 1.000 EA  |
| 032018004AK | HHCS 1/4-20X1/2 PLATED                   | 2.000 EA  |
| 032018004AK | HHCS 1/4-20X1/2 PLATED                   | 28.000 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  |
| 25036-1     | ACCESS COVER ODE, FR 250 SERIES          | 2.000 EA  |
| 25036-2     | ACCESS COVER DE, FRAME 250 SERIES        | 3.000 EA  |
| 25048-1     | CVR GASKET,CE,FR-250 3/32 THK CORK/N     | 3.000 EA  |
| 25048-2     | CVR GASKET,FE,FR-250 3/32 THK CORK/NEO   | 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   | WILKOFAS, 789.227, MED. GRAY CHAR. MET.  | 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           | 1.000 EA  |
| 482413015Y  | #15 SLVG                                 | 6.000 FT  |
| 482413008Y  | #8 SLEEVING (GREEN)                      | 6.000 FT  |

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|            |                            |          |
|------------|----------------------------|----------|
| 041009029B | CONNECTOR, RTD             | 4.000 EA |
| 041009029E | #8 BUTT CONNECTOR          | 3.000 EA |
| MN605      | INTEGRAL HP DC MOTORS 2/09 | 1.000 EA |

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



3/8-16UNC-2B THD X .88 DP. IN SHAFT END.  
1/2-13UNC-2B THD X .75 DP. 4-HOLES ON A 7.250 DIA. B.C.

8.498  
8.520  
DIA.

45°

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AB

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HOLE FOR "AA" CONDUIT

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11245  
DIA.

19

40

ACCESSORY MTD. FACE

(4)H HOLE DIA.

| FRAME  | FOOT MOUNTING |      |       |     |      |      |      |      |       |                   | D.E. SHAFT EXTENSION |        |         |      |       | DRIVE KEY |        |         | ACC SHAFT |       | ACC KEY |       | FRAME             |       |       |  |  |  |  |  |  |  |
|--------|---------------|------|-------|-----|------|------|------|------|-------|-------------------|----------------------|--------|---------|------|-------|-----------|--------|---------|-----------|-------|---------|-------|-------------------|-------|-------|--|--|--|--|--|--|--|
|        | BA            | E    | 2F    | C   | H    | J    | N    | N-W  | U     | V                 | W                    | KEY-50 | KEY-100 | FN   | FN    | FN        | KEY-50 | KEY-100 | A         | B     | C       | FC    | D                 | D     | P     |  |  |  |  |  |  |  |
| 218AT  | 3.50          | 4.25 | 10.00 | .50 | .406 | 2.00 | 3.00 | 2.75 | 1.375 | 2.50 <sup>1</sup> | .25                  | .312   | 1.75    | 2.44 | 1.125 | 2.19      | .250   | 2.25    | 10.38     | 11.00 | 26.30   | 28.75 | 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>1</sup> | .25                  | .312   | 1.75    | 2.44 | 1.125 | 2.19      | .250   | 2.25    | 10.38     | 12.00 | 27.30   | 29.75 | 5.25 <sup>2</sup> | 10.47 | 10.44 |  |  |  |  |  |  |  |
| 210AT  | 3.50          | 4.25 | 12.00 | .50 | .406 | 2.00 | 3.00 | 2.75 | 1.375 | 2.50 <sup>1</sup> | .25                  | .312   | 1.75    | 2.44 | 1.125 | 2.19      | .250   | 2.25    | 10.38     | 13.50 | 28.80   | 31.25 | 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>2</sup> | .19                  | .375   | 2.31    | 3.33 | 1.375 | 3.08      | .312   | 3.00    | 12.38     | 14.00 | 30.19   | 33.03 | 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>2</sup> | .19                  | .375   | 2.31    | 3.33 | 1.375 | 3.08      | .312   | 3.00    | 12.38     | 15.50 | 31.69   | 36.53 | 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>2</sup> | .19                  | .375   | 2.31    | 3.33 | 1.375 | 3.08      | .312   | 3.00    | 12.38     | 17.56 | 33.70   | 36.28 | 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>2</sup> | .19                  | .375   | 2.31    | 3.33 | 1.375 | 3.08      | .312   | 3.00    | 12.38     | 23.50 | 39.70   | 41.39 | 6.25 <sup>2</sup> | 12.47 | 12.44 |  |  |  |  |  |  |  |

| FRAME  | CONDUIT BOX |      |      |      |       |      | APPROX. WEIGHT | APPROXIMATE HEIGHT |                  |
|--------|-------------|------|------|------|-------|------|----------------|--------------------|------------------|
|        | AA          | AB   | AC   | AF   | BS    | KL   |                |                    |                  |
| 218AT  | 3/4-1       | 7.91 | 6.44 | 2.44 | 8.38  | 3.81 | 3.12           | 1.35               | 277 <sup>3</sup> |
| 219AT  | 3/4-1       | 7.91 | 6.44 | 2.44 | 9.38  | 3.81 | 3.12           | 1.49               | 295 <sup>3</sup> |
| 210AT  | 3/4-1       | 7.91 | 6.44 | 2.44 | 10.88 | 3.81 | 3.12           | 1.71               | 321 <sup>3</sup> |
| 258AT  | 1 1/4       | 9.35 | 7.72 | 2.94 | 9.75  | 4.94 | 4.00           | 2.91               | 411 <sup>3</sup> |
| 259AT  | 1 1/4       | 9.35 | 7.72 | 2.94 | 11.25 | 4.94 | 4.00           | 3.31               | 456 <sup>3</sup> |
| 2510AT | 1 1/4       | 9.35 | 7.72 | 2.94 | 13.25 | 4.94 | 4.00           | 3.80               | 516 <sup>3</sup> |
| 2513AT | 1 1/4       | 9.35 | 7.72 | 2.94 | 19.25 | 4.94 | 4.00           | 5.27               | 528 <sup>3</sup> |

1) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S  
2) SHAFT DIAMETERS ABOVE 1.800 TO FRAME 4700S - 4700S  
3) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S  
4) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S  
5) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S  
6) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S  
7) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S  
8) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S  
9) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S  
10) SHAFT DIAMETERS TO 1.800 TO FRAME 4700S - 4700S

FOR F1 OR F2 CONDUIT BOX LOCATION SEE PANEL ORDER

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

REV. DESC: REV. "D" DIM TO +.000 -0.060

REV. LTR: A      VERSION: 01      TDR: 000000752566

FILE: \RGG\00019\542      REVISED: 04:41:28 06/20/2012

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**BALDOR**

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