

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP3770T

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 0738M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| Enclosure                      | TEFC                                                     |
| Frame                          | 213T                                                     |
| Frame Material                 | Iron                                                     |
| Frequency                      | 60.00 Hz                                                 |
| Haz Area Class and Group       | CLI GP A,B,C,D                                           |
| Haz Area Division              | Division II                                              |
| Motor Letter Type              | Three Phase                                              |
| Output @ Frequency             | 7.500 HP @ 60 HZ                                         |
| Phase                          | 3                                                        |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                         |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                       |
| Agency Approvals               | CCSA US<br>CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR |
| Ambient Temperature            | 40 °C                                                    |
| Auxiliary Box                  | NO AUXILLARY BOX                                         |
| Auxiliary Box Lead Termination | None                                                     |
| Base Indicator                 | Rigid                                                    |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                  |
| Blower                         | None                                                     |
| Constant Torque Speed Range    | 1                                                        |
| Current @ Voltage              | 9.500 A @ 460.0 V<br>19.000 A @ 230.0 V                  |
| Design Code                    | A                                                        |
| Drip Cover                     | No Drip Cover                                            |
| Duty Rating                    | CONT                                                     |
| Efficiency @ 100% Load         | 91.7 %                                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                                |
| Feedback Device                | NO FEEDBACK                                              |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  | 07K374     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 07WGT510   |
| Layout       | 07LYK374   |
| Eff. date    | 10-01-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 01-28-2021 |

|                               |                              |
|-------------------------------|------------------------------|
| Front Shaft Indicator         | None                         |
| Haz Area Temp Code            | T3C                          |
| Heater Indicator              | No Heater                    |
| High Voltage Full Load Amps   | 9.5 a                        |
| Insulation Class              | F                            |
| Inverter Code                 | Inverter Ready               |
| KVA Code                      | J                            |
| Lifting Lugs                  | Standard Lifting Lugs        |
| Locked Bearing Indicator      | No Locked Bearing            |
| Max Speed                     | 2700 rpm                     |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG                   |
| Motor Lead Termination        | Flying Leads                 |
| Motor Standards               | NEMA                         |
| Motor Type                    | 0738M                        |
| Mounting Arrangement          | F1                           |
| Number of Poles               | 4                            |
| Overall Length                | 19.50 IN                     |
| Power Factor                  | 81                           |
| Product Family                | Chemical Processing (Not DC) |
| Pulley End Bearing Type       | Ball                         |
| Pulley Face Code              | Standard                     |
| Pulley Shaft Indicator        | Standard                     |
| Rodent Screen                 | None                         |
| RoHS Status                   | ROHS COMPLIANT               |
| Service Factor                | 1.15                         |
| Shaft Diameter                | 1.375 IN                     |
| Shaft Ground Indicator        | No Shaft Grounding           |
| Shaft Rotation                | Reversible                   |
| Shaft Slinger Indicator       | Shaft Slinger                |
| Speed                         | 1770 rpm                     |
| Speed Code                    | Single Speed                 |
| Starting Method               | Direct on line               |
| Thermal Device - Bearing      | None                         |
| Thermal Device - Winding      | None                         |

| Vibration Sensor Indicator | No Vibration Sensor |
|----------------------------|---------------------|
| Winding Thermal 1          | None                |
| Winding Thermal 2          | None                |

**Nameplate**

| NP3257              |              |             |      |            |   |           |   |
|---------------------|--------------|-------------|------|------------|---|-----------|---|
| <b>CAT.NO.</b>      | ECP3770T     |             |      |            |   |           |   |
| <b>SPEC.</b>        | 07K374T510G1 |             |      |            |   |           |   |
| <b>HP</b>           | 7.5 TE       |             |      |            |   |           |   |
| <b>VOLTS</b>        | 230/460      |             |      |            |   |           |   |
| <b>AMP</b>          | 19/9.5       |             |      |            |   |           |   |
| <b>RPM</b>          | 1770         |             |      |            |   |           |   |
| <b>FRAME</b>        | 213T         | <b>HZ</b>   | 60   | <b>PH</b>  | 3 |           |   |
| <b>SER.F.</b>       | 1.15         | <b>CODE</b> | J    | <b>DES</b> | A | <b>CL</b> | F |
| <b>RATING</b>       | 40C AMB-CONT |             |      |            |   |           |   |
| <b>SN</b>           |              |             |      |            |   |           |   |
| <b>DE</b>           | 6307         | <b>ODE</b>  | 6307 |            |   |           |   |
| <b>NEMA-NOM-EFF</b> | 91.7         | <b>PF</b>   | 81   |            |   |           |   |
| <b>G.MIN.EFF</b>    | 90.2         | <b>CC</b>   | 010A |            |   |           |   |
| <b>T. CODE</b>      | T3C          | <b>T=</b>   | 160  |            |   |           |   |

| NP3260      |              |                         |     |
|-------------|--------------|-------------------------|-----|
| SPEC.       | 07K374T510G1 |                         |     |
| D.E. BRG.   | 35BC03XP30X  |                         |     |
| O.D.E. BRG. | 35BC03XP30X  |                         |     |
| GREASE      | POLYREX EM   |                         |     |
| RPM MAX     | 2700         | MAX. KVAR               | 1.4 |
| BLANK       |              |                         |     |
| INV.TYPE    | PWM          |                         |     |
| T=          | 160          |                         |     |
| C HP FR     | 60           | C HP TO                 | 90  |
| CT HZ FROM  | 1            | CT HZ TO                | 60  |
| VT HZ FROM  | 0-           | VT HZ TO                | 60  |
| HTR-VOLTS   |              | HTR-AMPS                |     |
| HTR-WATTS   |              | MAX. SPACE HEATER TEMP. |     |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA390711     | SA 07K374T510G1                          | 1.000 ea |
| RA381169     | RA 07K374T510G1                          | 1.000 ea |
| 37FN3002C01  | EXFN, PLASTIC, 6.00 OD, 1.155 ID         | 1.000 ea |
| HW3201A05    | 3/8-16 EYEBOLT                           | 1.000 ea |
| 09CB1001A03G | CONDUIT BOX, MACH GRAY                   | 1.000 ea |
| RM1017       | LEAD SEPERATOR GASKET MODEL 307 1/8" THK | 1.000 ea |
| 19XW2520A16  | SCREW,1/4-20X1 TAPTITE-II OR ROLOC 91    | 2.000 ea |
| 11XW1032G06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B01    | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 ea |
| 10XN2520S06  | 1/4 20X3/8 HX HD CAP S.S.                | 2.000 ea |
| WD1000B16    | T&B CX70TN OR L70P TERMINAL LUG          | 1.000 ea |
| 37EP1101C43G | TEFC 307 BRG, GRSR,RELIEF,.25-20 FH TAPS | 1.000 ea |
| HA4051A00    | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| HA4051A00    | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| HW4500A17    | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HW4500A17    | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HW5100A08    | W3118-035 WVY WSHR (WB)                  | 1.000 ea |
| 37EP1101A32G | PU ENDPLATE MACH                         | 1.000 ea |
| HW4500A01    | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| XY3118A12    | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 ea |
| 51XB1214A20  | 12-14X1.25 HXWSSLD SERTYB                | 1.000 ea |
| 07FH1001A01G | SPL FAN HOUSING, 307, W/GREASER, GRAY EP | 1.000 ea |
| 10XN2520A28  | 1/4-20X 1 3/4 HEX HD                     | 3.000 ea |
| WD4100A02    | DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL  | 1.000 ea |
| 09CB1504A01G | LIPPED CONDUIT BOX LID, MACH GRAY EPOXY  | 1.000 ea |
| 09GS1001A01  | GASKET, BOX LID, 1/8 THICK BLACK NEOPREN | 1.000 ea |
| 10XN2520A12  | 1/4-20 X 3/4 HEX HEAD CAP                | 2.000 ea |
| HW1001A25    | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 ea |
| HA1005A07    | SLINGER, OD 2.25, ID 1.344, 307 BRG      | 1.000 ea |
| HW4600B33    | V-RING SLINGER 1.375 X 1.890 X .35 VITON | 1.000 ea |
| HW2501F21    | KEY, 5/16 SQ X 2.375                     | 1.000 ea |

|             |                                          |          |
|-------------|------------------------------------------|----------|
| HA7000A02   | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea |
| MJ5001A27   | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 qt |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| MJ1000A02   | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| HA3104A32   | THRUBOLT- 5/16-18 X12.750                | 4.000 ea |
| MG1025N19   | WILKOFAS, 778.50, RELIANCE BLUE-GREEN 8  | 0.036 ga |
| LB1624      | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0005      | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| LB1449      | DIV-2/NEC WARNING LABEL                  | 1.000 ea |
| NP3257      | SS CP SUPER-E DIV-2 UL CSA-C US EEV PREM | 1.000 ea |
| NP3260      | SS CP SUPER-E AUX DATA INFORMATION       | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| 07PA1011    | PKG GRP, 07 CAST IRON PK1181             | 1.000 ea |
| MN416A01    | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| LB1002N     | LABEL,MARINE DUTY (ON ROLLS)             | 1.000 ea |
| HA4054      | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HA4054      | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |

ABB Motors and Mechanical Inc.

WINDING # 07WGT510

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 0738M

TORQUES (LB-FT): PO=69.1 PU=28.7 LR=39.1 LRA=67.4





