

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP2332T

10HP, 1180RPM, 3PH, 60HZ, 256T, 0960M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                           |
| <b>Frame</b>                          | 256T                                                           |
| <b>Frame Material</b>                 | Iron                                                           |
| <b>Frequency</b>                      | 60.00 Hz                                                       |
| <b>Haz Area Class and Group</b>       | CLI GP A,B,C,D                                                 |
| <b>Haz Area Division</b>              | Division II                                                    |
| <b>Motor Letter Type</b>              | Three Phase                                                    |
| <b>Output @ Frequency</b>             | 10.000 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                              |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                               |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | CCSA US<br>CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR       |
| <b>Ambient Temperature</b>            | 40 °C                                                          |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                               |
| <b>Auxiliary Box Lead Termination</b> | None                                                           |
| <b>Base Indicator</b>                 | Rigid                                                          |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                        |
| <b>Blower</b>                         | None                                                           |
| <b>Constant Torque Speed Range</b>    | 1.0                                                            |
| <b>Current @ Voltage</b>              | 30.000 A @ 208.0 V<br>28.400 A @ 230.0 V<br>14.200 A @ 460.0 V |
| <b>Design Code</b>                    | A                                                              |
| <b>Drip Cover</b>                     | No Drip Cover                                                  |
| <b>Duty Rating</b>                    | CONT                                                           |
| <b>Efficiency @ 100% Load</b>         | 91.0 %                                                         |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                      |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | BA         |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 09J371     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 09WGX826   |
| <b>Layout</b>       | 09LYJ371   |
| <b>Eff. date</b>    | 09-16-2025 |
| <b>CD Diagram</b>   | CD0180     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 9#12       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 08-29-2010 |

| Enclosure Modification        | Severe Duty Features        |
|-------------------------------|-----------------------------|
| Feedback Device               | NO FEEDBACK                 |
| Front Face Code               | Standard                    |
| Front Shaft Indicator         | None                        |
| Haz Area Temp Code            | T3C                         |
| Heater Indicator              | No Heater                   |
| High Voltage Full Load Amps   | 14.2 a                      |
| Insulation Class              | F                           |
| Inverter Code                 | Inverter Duty               |
| KVA Code                      | J                           |
| Lifting Lugs                  | Standard Lifting Lugs       |
| Locked Bearing Indicator      | Locked Bearing              |
| Max Speed                     | 1800 rpm                    |
| Motor Lead Exit               | Ko Box                      |
| Motor Lead Quantity/Wire Size | 9 @ 12 AWG                  |
| Motor Lead Termination        | Flying Leads                |
| Motor Standards               | NEMA                        |
| Motor Type                    | 0960M                       |
| Mounting Arrangement          | F1                          |
| Number of Poles               | 6                           |
| Overall Length                | 24.78 IN                    |
| Power Factor                  | 72                          |
| Product Family                | Super-E Chemical Processing |
| Pulley End Bearing Type       | Ball                        |
| Pulley Face Code              | Standard                    |
| Pulley Shaft Indicator        | Standard                    |
| Rodent Screen                 | None                        |
| Service Factor                | 1.15                        |
| Shaft Diameter                | 1.625 IN                    |
| Shaft Extension Location      | Pulley End                  |
| Shaft Ground Indicator        | No Shaft Grounding          |
| Shaft Rotation                | Reversible                  |
| Shaft Slinger Indicator       | Shaft Slinger               |
| Speed                         | 1180 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**
**NP3995ABEL**

|                           |  |                                |    |    |           |         |        |      |               |                  |    |                       |      |                |             |         |  |      |  |               |  |        |   |  |  |
|---------------------------|--|--------------------------------|----|----|-----------|---------|--------|------|---------------|------------------|----|-----------------------|------|----------------|-------------|---------|--|------|--|---------------|--|--------|---|--|--|
| CAT #                     |  | ECP2332T                       |    |    |           |         | SER    |      |               |                  | CC |                       | 010A |                |             |         |  |      |  |               |  |        |   |  |  |
| SPEC                      |  | 09J371X826                     |    |    |           |         | RATING |      | 40C AMB-CONT  |                  |    |                       |      |                |             |         |  |      |  |               |  |        |   |  |  |
| HZ                        |  | VOLTS                          |    |    | AMPS      |         |        | RPM  |               | HP               |    | CODE                  |      | SF             |             | DES     |  | PF   |  | NEMA NOM. EFF |  |        |   |  |  |
| 60                        |  | 230/460                        |    |    | 28.4/14.2 |         |        | 1180 |               | 10               |    | J                     |      | 1.15           |             | A       |  | 72   |  | %             |  |        |   |  |  |
|                           |  |                                |    |    |           |         |        |      |               |                  |    |                       |      |                |             |         |  |      |  | %             |  |        |   |  |  |
| PH                        |  | 3                              | CL |    | F         | MAX RPM |        | 1800 | MAX CORR KVAR |                  |    | 5.21                  |      | USABLE AT 208V |             |         |  | N/A  |  |               |  |        |   |  |  |
| IP55                      |  |                                |    | FR |           | 256T    |        | ENCL |               | TEFC             |    | DE BRG                |      | 6309           |             | ODE BRG |  | 6309 |  |               |  |        |   |  |  |
| GREASE                    |  | POLYREX EM                     |    |    |           |         |        |      |               |                  |    |                       |      | MTR WT         |             | 348     |  | LBS  |  |               |  |        |   |  |  |
| USABLE AT                 |  | 50HZ 7.5HP 190/380V 26.4/13.2A |    |    |           |         |        |      |               |                  |    |                       |      | SF1.0          |             |         |  |      |  |               |  |        |   |  |  |
|                           |  |                                |    |    |           |         |        |      |               |                  |    |                       |      |                |             |         |  |      |  |               |  |        |   |  |  |
|                           |  |                                |    |    |           |         |        |      |               |                  |    |                       |      |                |             |         |  |      |  |               |  |        |   |  |  |
|                           |  |                                |    |    |           |         |        |      |               |                  |    |                       |      |                |             |         |  |      |  |               |  |        |   |  |  |
| CL I DIV 2 GRPS A,B,C,D   |  |                                |    |    |           |         |        |      |               | CL I ZONE 2 GRPS |    |                       |      |                | IIA,IIB,IIC |         |  |      |  | TEMP T        |  | 160    | C |  |  |
| 1.0 SF ON PWM INVERTER    |  |                                |    |    | POWER     |         |        |      |               | INV TEMP CL      |    |                       |      |                | 180         | C       |  |      |  |               |  |        |   |  |  |
| CHP                       |  | 60-90                          |    | HZ |           | 1.5:1   |        | CT   |               | 1.0-60           |    | HZ                    |      | 60:1           |             | VT      |  | 0-60 |  | HZ            |  | 1000:1 |   |  |  |
| SPACE HEATER LEADS H1-H2: |  |                                |    |    |           |         |        |      |               | TIE LIKE NUMBERS |    |                       |      |                | TOGETHER    |         |  |      |  |               |  |        |   |  |  |
| V                         |  |                                |    | A  |           |         |        | W    |               |                  |    | MAX SPACE HEATER TEMP |      |                |             |         |  |      |  |               |  |        |   |  |  |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA202253      | SA 09J371X826                            | 1.000 ea |
| RA189534      | RA 09J371X826                            | 1.000 ea |
| 09FN3001D01SP | EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO | 1.000 ea |
| 09CB1002A12P  | KOBX W/1.25 NPT LEAD HOLE & 2.38 MTG HOL | 1.000 ea |
| 09GS1010      | GASKET, DWG, LEADWIRE SEPERATOR          | 1.000 ea |
| 51XW2520A12   | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 4.000 ea |
| WD1000B16     | T&B CX70TN OR L70P TERMINAL LUG          | 1.000 ea |
| 59XW2520G07   | .25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN  | 1.000 ea |
| HA3400A39     | STUD- 3/8-16 X 6.44 OAL HEX              | 4.000 ea |
| HW1001A38     | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| HW4600B44     | V-RING SLINGER 1.500 X 1.810 X .28 VITON | 1.000 ea |
| HW4600B44     | V-RING SLINGER 1.500 X 1.810 X .28 VITON | 1.000 ea |
| HA4017A08     | .125X3.50 GREASER EXTEN.                 | 1.000 ea |
| HA4017A02     | .125X2.50 GREASER EXTENS.F/S             | 1.000 ea |
| HW4019A01     | PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING | 1.000 ea |
| HW4500A20     | 1/8NPT SL PIPE PLUG                      | 1.000 ea |
| HW5100A11     | W3917-042 WVY WSHR (WB)                  | 1.000 ea |
| 10XN2520K36   | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 4.000 ea |
| 09FH1000P     | FAN COVER, CAST W/EPOXY PRIMER           | 1.000 ea |
| 09EP1118A38P  | PUEP MACH,309 BRG,PLS GRSR,RLF,EPOXY PRI | 1.000 ea |
| 10XN3816K28   | 3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5  | 4.000 ea |
| HW1001A38     | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| HW4500A20     | 1/8NPT SL PIPE PLUG                      | 1.000 ea |
| 10XN2520K36   | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 4.000 ea |
| HW1001A38     | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| XY3816A12     | 3/8-16 FINISHED NUT W/SERRATIONS         | 4.000 ea |
| 12CB1503P     | CONDUIT BOX LID, CAST W/EPOXY PRIMER     | 1.000 ea |
| 12GS1002      | GASKET, CONDUIT BOX LID, NEOP            | 1.000 ea |
| 10XN3118K16   | 5/16-18 X 1' GRADE #5, STL, ZINC PLATE   | 2.000 ea |
| HW1001A31     | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 2.000 ea |
| HW2501G25     | KEY, 3/8 SQ X 2.875                      | 1.000 ea |

|                |                                          |          |
|----------------|------------------------------------------|----------|
| MJ5001A27      | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.031 qt |
| MJ5002A01      | SILICON RUBBER SEALANT, 732CL 10.3 OZ TU | 0.033 ea |
| 09EP1118A37LP5 | FREP MACH, 309 BRG. EPOXY PRIMER         | 1.000 ea |
| MJ5002A01      | SILICON RUBBER SEALANT, 732CL 10.3 OZ TU | 0.025 ea |
| 85XU0407S04    | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| MN416A01       | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| NP3995ABEL     | SS SUPER-E SD XEX CLI DIV2 UR CSA-C-US E | 1.000 ea |
| HW4500A17      | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HW4500A21      | 1618BALEMITE FITTING 825 UNIVERSAL       | 1.000 ea |
| LB1624         | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| HA4054         | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HA4051A00      | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| MJ1000A02      | GREASE, POLYREX EM EXXON                 | 0.080 lb |
| HW4500A03      | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 ea |
| HW4500A17      | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HA4054         | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HA4051A00      | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| HW2500A25      | WOODRUFF KEY USA #1008 #BLOW CARBON STEE | 1.000 ea |
| MG1025N19      | WILKOFAST, 778.50, RELIANCE BLUE-GREEN 8 | 0.050 ga |
| 40PA1005       | PACKAGING GROUP, 09 STD                  | 1.000 ea |
| LD7020D09      | LEAD SET, 12AWG, 9 LEAD, 20" LONG LEADS  | 1.000 ea |

**Accessories**

| Part number | Description | Multiplier |
|-------------|-------------|------------|
| 09-1309     | C FACE KIT  | A8         |

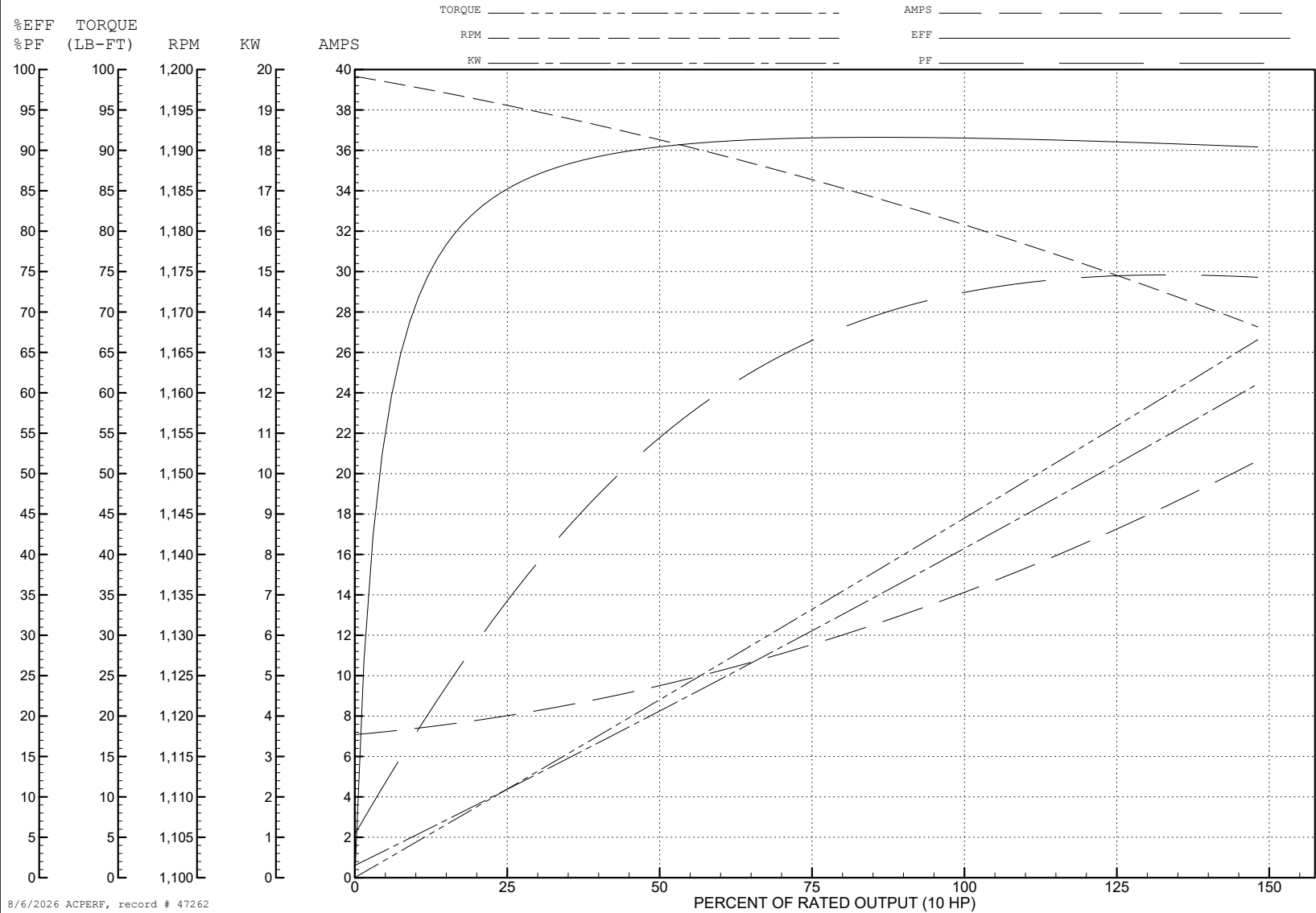
ABB Motors and Mechanical Inc.

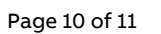
WINDING # 09WGX826

Typical performance - not guaranteed values.

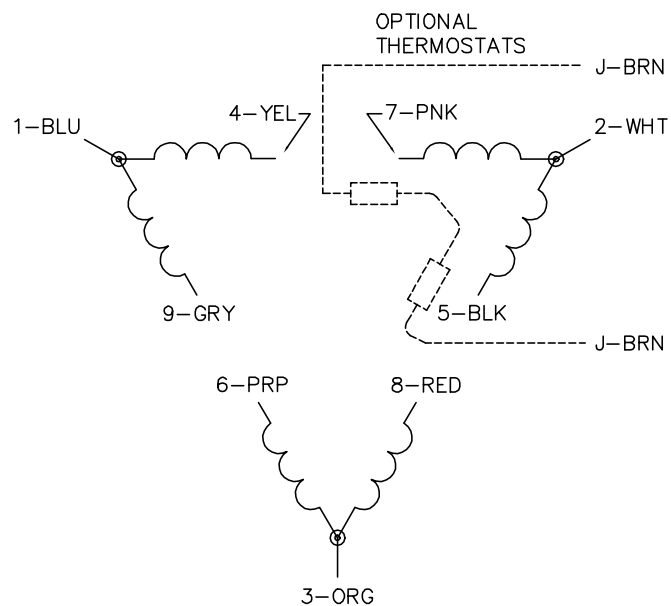
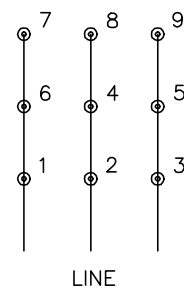
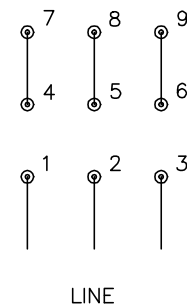
10 HP 3 PH 60 HZ 1180 RPM 460 V 0960M

TORQUES (LB-FT): PO=144 PU=54.6 LR=75 LRA=93





CD0180


LOW VOLTAGE  
(2D)

HIGH VOLTAGE  
(1D)

**NOTES:**

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: —


**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180