

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP4314T-5

60HP, 1780RPM, 3PH, 60HZ, 364T, A3658M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Enclosure                     | TEFC                                            |
| Frame                         | 364T                                            |
| 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            | 60.000 HP @ 60 HZ                               |
| Phase                         | 3                                               |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ                                |
| Voltage @ Frequency           | 575.0 V @ 60 HZ                                 |
| Agency Approvals              | CCSAUSEEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR |
| Ambient Temperature           | 40 °C                                           |
| Auxiliary Box                 | NO AUXILLARY BOX                                |
| Base Indicator                | Rigid                                           |
| Bearing Grease Type           | Polyrex EM (-20F +300F)                         |
| Constant Torque Speed Range   | 10-60                                           |
| Current @ Voltage             | 55.000 A @ 575.0 V                              |
| Design Code                   | B                                               |
| Drip Cover                    | No Drip Cover                                   |
| Duty Rating                   | CONT                                            |
| Efficiency @ 100% Load        | 95.0 %                                          |
| Feedback Device               | NO FEEDBACK                                     |
| Haz Area Temp Code            | T3                                              |
| Heater Indicator              | No Heater                                       |
| High Voltage Full Load Amps   | 55.0 a                                          |
| Insulation Class              | F                                               |
| Inverter Code                 | Inverter Ready                                  |
| KVA Code                      | G                                               |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | AA         |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A36WG4086  |
| Layout       | 617428-034 |
| Eff. date    | 02-13-2025 |
| CD Diagram   | 416820-036 |
| Poles        | 04         |
| Leads        | 3#4        |
| Proprietary  | False      |
| Created date | 10-19-2010 |

|                                      |                        |
|--------------------------------------|------------------------|
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b> |
| <b>Max Speed</b>                     | 2700 rpm               |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 4 AWG              |
| <b>Motor Standards</b>               | NEMA                   |
| <b>Motor Type</b>                    | A3658M                 |
| <b>Mounting Arrangement</b>          | F1                     |
| <b>Number of Poles</b>               | 4                      |
| <b>Overall Length</b>                | 33.49 IN               |
| <b>Power Factor</b>                  | 84                     |
| <b>Pulley End Bearing Type</b>       | Ball                   |
| <b>Pulley Face Code</b>              | Standard               |
| <b>Service Factor</b>                | 1.15                   |
| <b>Shaft Diameter</b>                | 2.375 IN               |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding     |
| <b>Shaft Rotation</b>                | Reversible             |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger          |
| <b>Speed</b>                         | 1780 rpm               |
| <b>Speed Code</b>                    | Single Speed           |
| <b>Starting Method</b>               | Direct on line         |
| <b>Thermal Device - Bearing</b>      | None                   |
| <b>Thermal Device - Winding</b>      | None                   |

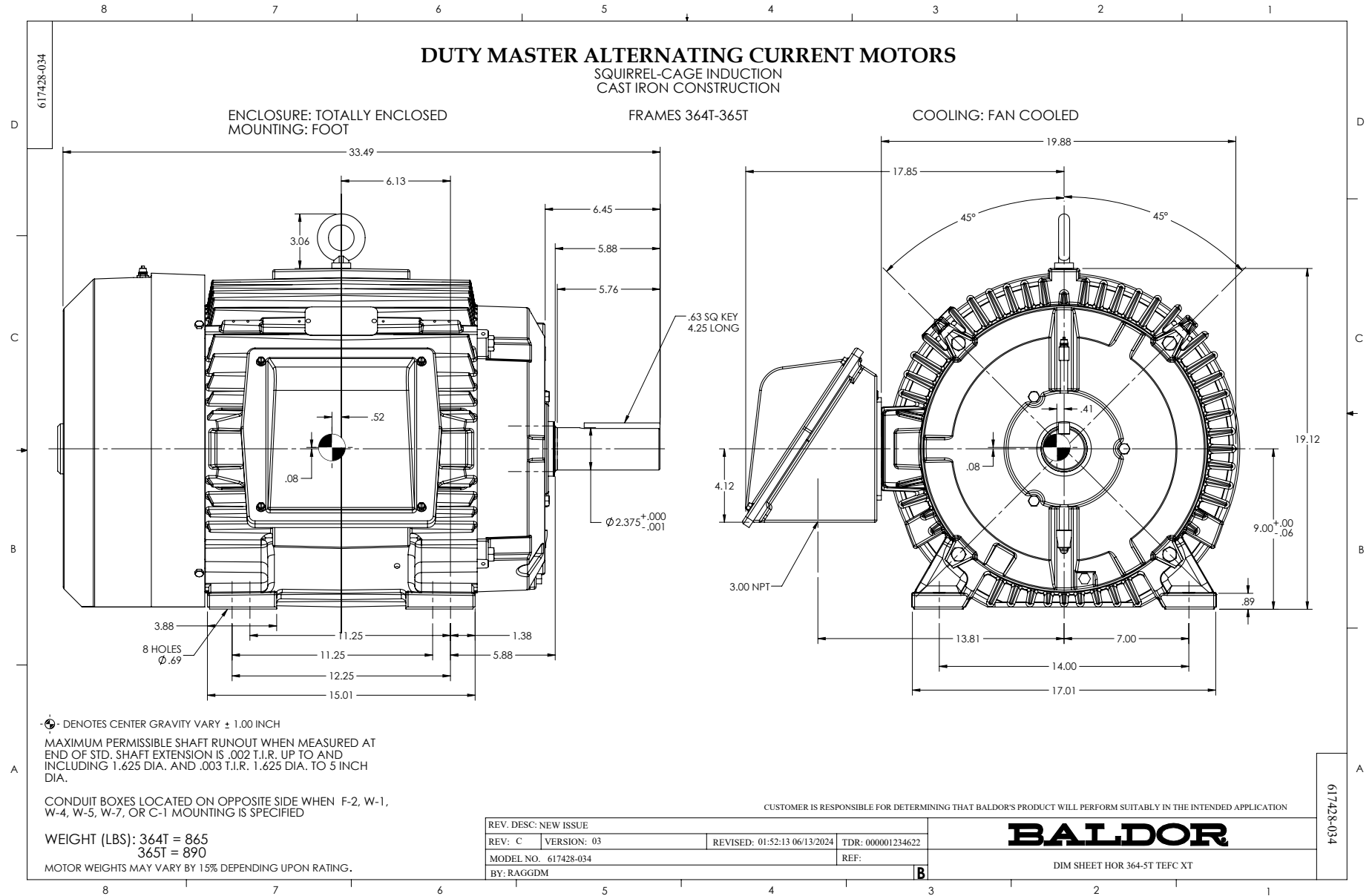
**Nameplate**

| NP4033LUA               |            |       |           |         |                  |               |              |        |        |             |      |       |               |     |   |
|-------------------------|------------|-------|-----------|---------|------------------|---------------|--------------|--------|--------|-------------|------|-------|---------------|-----|---|
| CAT #                   | ECP4314T-5 |       |           |         |                  | SER           |              |        |        | CC          | 010A |       |               |     |   |
| SPEC                    | P36G3423   |       |           |         |                  | RATING        | 40C AMB-CONT |        |        |             |      |       |               |     |   |
| HZ                      | VOLTS      |       |           | AMPS    |                  | RPM           | HP           | CODE   | G      | SF          | DES  | PF    | NEMA NOM. EFF |     |   |
| 60                      | 575        |       |           | 55      |                  | 1780          | 60           | G      |        | 1.15        | B    | 84 %  | 95 %          |     |   |
|                         |            |       |           |         |                  |               |              |        |        |             |      | %     | %             |     |   |
| PH                      | 3          | CL    | F         | MAX RPM | 2700             | MAX CORR KVAR |              | 13.6   |        |             |      |       |               |     |   |
| BRG                     | DE         | 6313  |           | ODE     | 6313             | ENCL          | TEFC         | FR     | 364T   | IP          | 55   |       |               |     |   |
| GREASE                  | POLYREX EM |       |           |         |                  |               |              |        | MTR WT | 869         | LBS  |       |               |     |   |
| CL I DIV 2 GRPS A,B,C,D |            |       |           |         | CL I ZONE 2 GRPS |               |              |        |        | IIA,IIB,IIC |      |       | TEMP T        | 200 | C |
| INV READY               | CT         | 15-60 | HZ        | 4:1     | VT               | 0-60          | HZ           | 1000:1 | CHP    | 60-90       | HZ   | 1.5:1 |               |     |   |
| INV TEMP CL             | 200        | C     | USABLE AT |         | N/A              |               |              |        |        |             |      |       |               |     |   |
|                         |            |       |           |         |                  |               |              |        |        |             |      |       |               |     |   |

**Parts List**

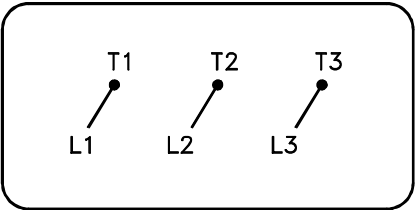
| Part number | Description                             | Quantity |
|-------------|-----------------------------------------|----------|
| SA209394    | SA P36G3423                             | 1.000 ea |
| RA196655    | RA P36G3423                             | 1.000 ea |
| NP4033LUA   | SS SUPER-E SD XEX, CLI DIV2, CURUS-EEV, | 1.000 ea |
| 000692000VD | LABEL WARNING                           | 1.000 ea |
| 004824015A  | GREASE POLYREX EM                       | 0.544 lb |
| 032018008AK | HHCS 1/4-20X1 PLATED                    | 4.000 ea |
| 032018012DK | HHCS 1/2-13X1-1/2 PLTD. 032018012DR     | 4.000 ea |
| 032018024CK | HHCS 3/8-16X3 PLTD.                     | 3.000 ea |
| 034180012DA | KEY 1X4X1/4X1-1/2 L                     | 1.000 ea |
| 032018012DK | HHCS 1/2-13X1-1/2 PLTD. 032018012DR     | 4.000 ea |
| 032018024CK | HHCS 3/8-16X3 PLTD.                     | 3.000 ea |
| 034530052AB | P/NIP 1/8X6-1/2 Zinc                    | 1.000 ea |
| 034690002AB | PPLG 1/4" PLTD.                         | 1.000 ea |
| 078548001K  | FAN KB 100/30 (70) 360                  | 1.000 ea |
| 078559001A  | +FANCV - 360                            | 1.000 ea |
| 085922073B  | BRKT 360 085922072WCC KB                | 1.000 ea |
| 410700004F  | WSHR                                    | 1.000 ea |
| 415045002E  | SLGR                                    | 1.000 ea |
| 415072001B  | CLAMP                                   | 1.000 ea |
| 415096002A  | CPLG 1/8 HEX TYPE                       | 1.000 ea |
| 412118006A  | DRAIN                                   | 1.000 ea |
| 034690002AB | PPLG 1/4" PLTD.                         | 1.000 ea |
| 085922073B  | BRKT 360 085922072WCC KB                | 1.000 ea |
| 415045002E  | SLGR                                    | 1.000 ea |
| 415096002A  | CPLG 1/8 HEX TYPE                       | 1.000 ea |
| 412118006A  | DRAIN                                   | 1.000 ea |
| 032018010CK | HHCS 3/8-16X1-1/4 PLTD. 032018010CR     | 4.000 ea |
| 033512008LB | HHTTS 1/4-20X1 PLATED                   | 4.000 ea |
| 034000014AB | WSH ID.406 OD.812 TH.065                | 4.000 ea |
| 035000001A  | ALFTG 1/8" 1610-BL                      | 1.000 ea |
| 035000001A  | ALFTG 1/8" 1610-BL                      | 1.000 ea |

|             |                                        |          |
|-------------|----------------------------------------|----------|
| 065776000C  | GASKET,MAIN CBOX, 320-400              | 1.000 ea |
| 067053000B  | GASK 320-400                           | 1.000 ea |
| 076708000BB | CONDUIT BOX-360                        | 1.000 ea |
| 076709000A  | C/B Cover - 360                        | 1.000 ea |
| 406099000A  | PLUG - FAN COVER 320-440               | 1.000 ea |
| 415000115H  | T/LUG #2AWG-4/0AWG                     | 1.000 ea |
| 418150003A  | GREASE FITTING CAP                     | 1.000 ea |
| 418150003A  | GREASE FITTING CAP                     | 1.000 ea |
| MG1025N19   | WILKO 778.50 BLUE GREEN - 55 GAL DRUMS | 0.250 ga |
| 033775004EA | DRSCR #6-1/4 304 S.S.                  | 4.000 ea |
| 034530020AB | P/NIP 1/8X2-1/2 PLTED                  | 1.000 ea |
| 034180034HA | KEY 5/8X5/8X4-1/4 L                    | 1.000 ea |
| 421948051   | LABEL, MYLAR                           | 1.000 ea |
| 14PA1000    | PACKAGING 314 GROUP COMBINED PRINT     | 1.000 ea |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABEL  | 1.000 ea |
| LB1449      | DIV-2/NEC WARNING LABEL                | 1.000 ea |
| 032018005DL | 1/2-13 X 5/8 SILICON BRONZE HHCS       | 1.000 ea |



416820-036

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 3 LEAD                      CONNECTED



(N.P. 1575-BA)

416820-036

|                                      |             |                                |
|--------------------------------------|-------------|--------------------------------|
| REV. DESC: LOADED TO BUS, C/R 335225 |             |                                |
| REV. LTR: -                          | VERSION: 00 | TDR: 000000538207              |
| FILE: \MGA\00000\682                 |             | REVISED: 11: 54: 06 04/30/2010 |
| MTL: -                               |             | BY: RAGRA                      |

**BALDOR**

CONN DIAG - STANDARD 3 LEAD  
SH 1 of 1