

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECR9754T

75HP, 1785RPM, 3PH, 60HZ, 365T, A36070M, TEFC

Class - None

Division - Not Applicable

**Specifications**

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Enclosure                     | TEFC                                            |
| Frame                         | 365T                                            |
| Frame Material                | Iron                                            |
| Frequency                     | 60.00 Hz                                        |
| Haz Area Class and Group      | None                                            |
| Haz Area Division             | Not Applicable                                  |
| Motor Letter Type             | Three Phase                                     |
| Output @ Frequency            | 75.000 HP @ 60 HZ                               |
| Phase                         | 3                                               |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ                                |
| Voltage @ Frequency           | 230.0 V @ 60 HZ<br>460.0 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             | 87.500 A @ 460.0 V<br>175.000 A @ 230.0 V       |
| Design Code                   | A                                               |
| Drip Cover                    | No Drip Cover                                   |
| Duty Rating                   | CONT                                            |
| Efficiency @ 100% Load        | 95.4 %                                          |
| Feedback Device               | NO FEEDBACK                                     |
| Heater Indicator              | No Heater                                       |
| High Voltage Full Load Amps   | 87.5 a                                          |
| Insulation Class              | F                                               |
| Inverter Code                 | Inverter Ready                                  |

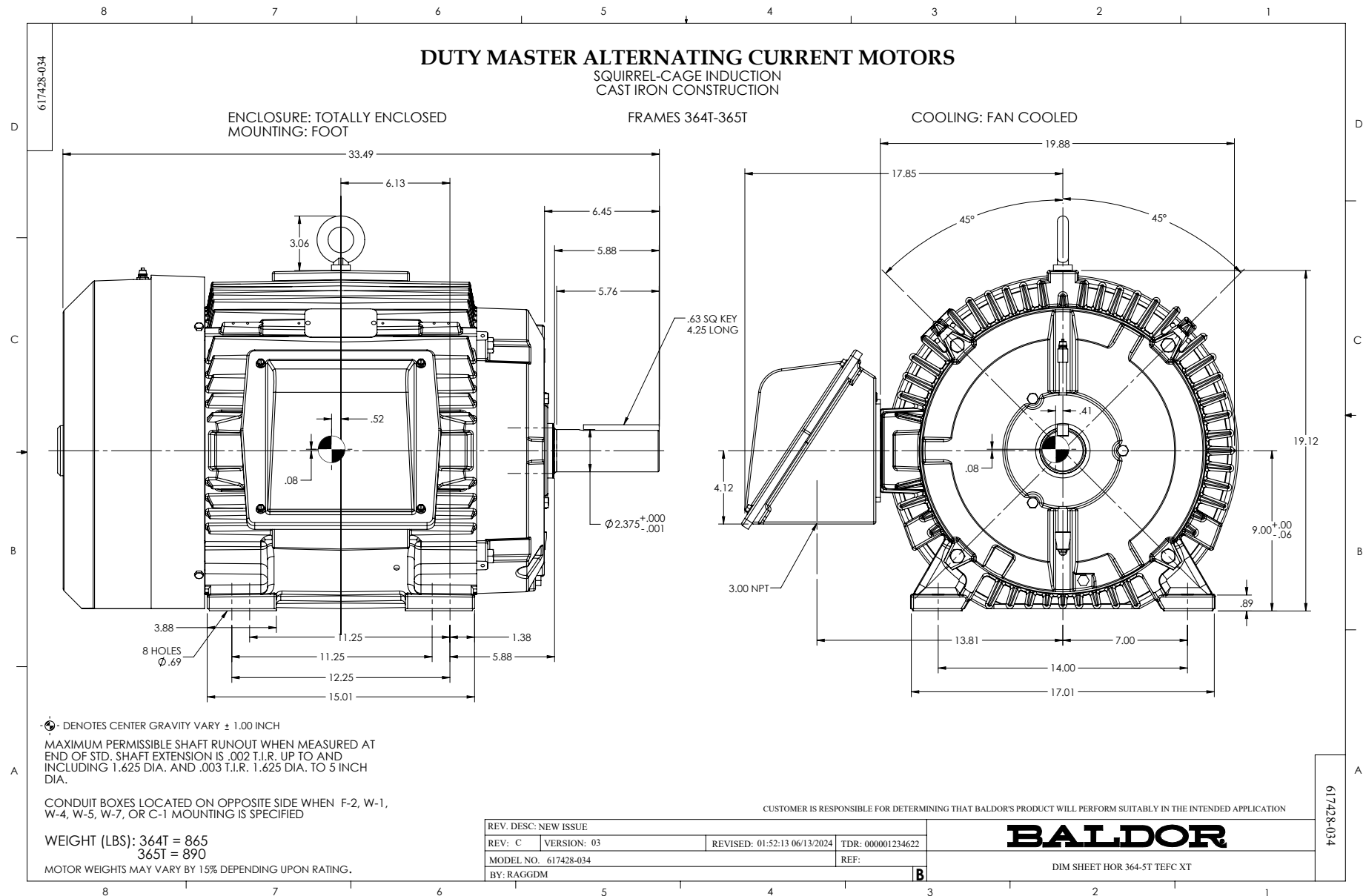
**Part Detail**

|              |            |
|--------------|------------|
| Revision     | Q          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A36WG4073  |
| Layout       | 617428-034 |
| Eff. date    | 02-09-2026 |
| CD Diagram   | CD0180     |
| Poles        | 04         |
| Leads        | 3#4,6#6    |
| Proprietary  | False      |
| Created date | 02-03-2015 |

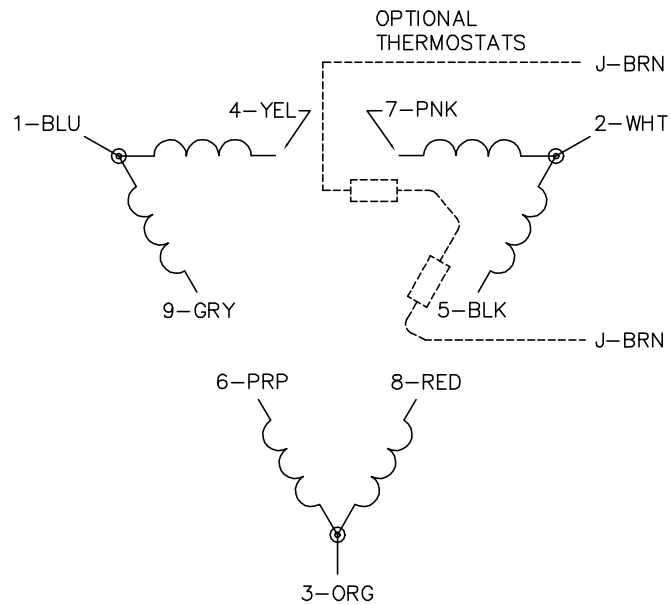
|                                      |                       |
|--------------------------------------|-----------------------|
| <b>KVA Code</b>                      | H                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Max Speed</b>                     | 2700 rpm              |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 4 AWG             |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | A36070M               |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 4                     |
| <b>Overall Length</b>                | 33.49 IN              |
| <b>Power Factor</b>                  | 84                    |
| <b>Product Family</b>                | Crusher / Chipper     |
| <b>Pulley End Bearing Type</b>       | Ball                  |
| <b>Pulley Face Code</b>              | Standard              |
| <b>Service Factor</b>                | 1.25                  |
| <b>Shaft Diameter</b>                | 2.374 IN              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger         |
| <b>Speed</b>                         | 1785 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**
**NP3980LUA**

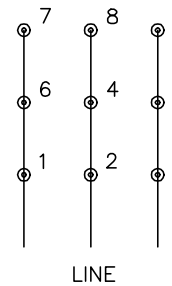
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|-----------|----|----------------------------|-------------|---------------|-------|--------|------|--------------|--------|----|--------|------|-------|---------------|-------|--|
| CAT #     |    | ECR9754T                   |             |               |       | SER    |      |              |        | CC |        | 010A |       |               |       |  |
| SPEC      |    | P36G3504                   |             |               |       | RATING |      | 40C AMB-CONT |        |    |        |      |       |               |       |  |
| HZ        |    | VOLTS                      |             | AMPS          |       | RPM    |      | HP           | CODE   |    | SF     | DES  | PF    | NEMA NOM. EFF |       |  |
| 60        |    | 230/460                    |             | 176/88        |       | 1780   |      | 75           | H      |    | 1.25   | A    | 83 %  | 95.4 %        |       |  |
|           |    | -                          |             |               |       |        |      |              |        |    |        |      | %     |               | %     |  |
| PH        | 3  | CL                         | F           | MAX CORR KVAR |       | 18.7   |      |              |        |    |        |      |       |               |       |  |
| BRG       | DE | 6313                       | ODE         |               | 6313  | ENCL   | TEFC | FR           | 365T   |    |        | 55   |       |               |       |  |
| GREASE    |    | POLYREX EM                 |             |               |       |        |      |              | MTR WT |    | 930    | LBS  |       |               |       |  |
| USABLE AT |    | 50HZ 60HP 190/380V 170/85A |             |               |       |        |      | SF1.0        |        |    |        |      |       |               |       |  |
| INV READY |    | 1.0 SF VPWM                |             | CT            | 10-60 | HZ     | 6:1  | VT           | 0-60   | HZ | 1000:1 | CHP  | 60-90 | HZ            | 1.5:1 |  |
| MAX RPM   |    | 2700                       | SFA 216/108 |               |       |        |      |              |        |    |        |      |       |               |       |  |
|           |    |                            |             |               |       |        |      |              |        |    |        |      |       |               |       |  |



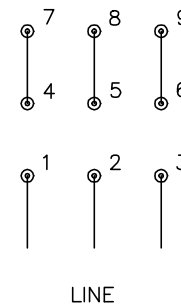
CD0180



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.

CD0180

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