

# ABB BALDOR RELIANCE III

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## Customer information packet

### FDEM4314T-5

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

Class - None

Division - Not Applicable

**Specifications**

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| Enclosure                     | TEFC                                                       |
| Frame                         | 364T                                                       |
| 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            | 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 (OLD LOGO)<br>UR |
| Ambient Temperature           | 40 °C                                                      |
| Auxiliary Box                 | NO AUXILLARY BOX                                           |
| Base Indicator                | Rigid                                                      |
| Bearing Grease Type           | Polyrex EM (-20F +300F)                                    |
| 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                                                |
| Heater Indicator              | No Heater                                                  |
| High Voltage Full Load Amps   | 55.0 a                                                     |
| Insulation Class              | F                                                          |
| Inverter Code                 | Inverter Ready                                             |
| KVA Code                      | G                                                          |
| Lifting Lugs                  | Standard Lifting Lugs                                      |
| Motor Lead Quantity/Wire Size | 3 @ 4 AWG                                                  |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | -          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A36WG4086  |
| Layout       | 617431-412 |
| Eff. date    | 07-24-2025 |
| CD Diagram   | 416820-036 |
| Poles        | 04         |
| Leads        | 3#4        |
| Proprietary  | False      |
| Created date | 07-23-2025 |

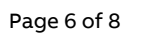
|                                 |                           |
|---------------------------------|---------------------------|
| <b>Motor Standards</b>          | <b>NEMA</b>               |
| <b>Motor Type</b>               | <b>A3658M</b>             |
| <b>Mounting Arrangement</b>     | <b>F1</b>                 |
| <b>Number of Poles</b>          | <b>4</b>                  |
| <b>Overall Length</b>           | <b>33.48 IN</b>           |
| <b>Power Factor</b>             | <b>84</b>                 |
| <b>Product Family</b>           | <b>FARM DUTY</b>          |
| <b>Pulley End Bearing Type</b>  | <b>Ball</b>               |
| <b>Service Factor</b>           | <b>1.15</b>               |
| <b>Shaft Diameter</b>           | <b>2.375 IN</b>           |
| <b>Shaft Ground Indicator</b>   | <b>No Shaft Grounding</b> |
| <b>Shaft Rotation</b>           | <b>Reversible</b>         |
| <b>Shaft Slinger Indicator</b>  | <b>No Slinger</b>         |
| <b>Speed</b>                    | <b>1780 rpm</b>           |
| <b>Speed Code</b>               | <b>Single Speed</b>       |
| <b>Starting Method</b>          | <b>Direct on line</b>     |
| <b>Thermal Device - Winding</b> | <b>None</b>               |

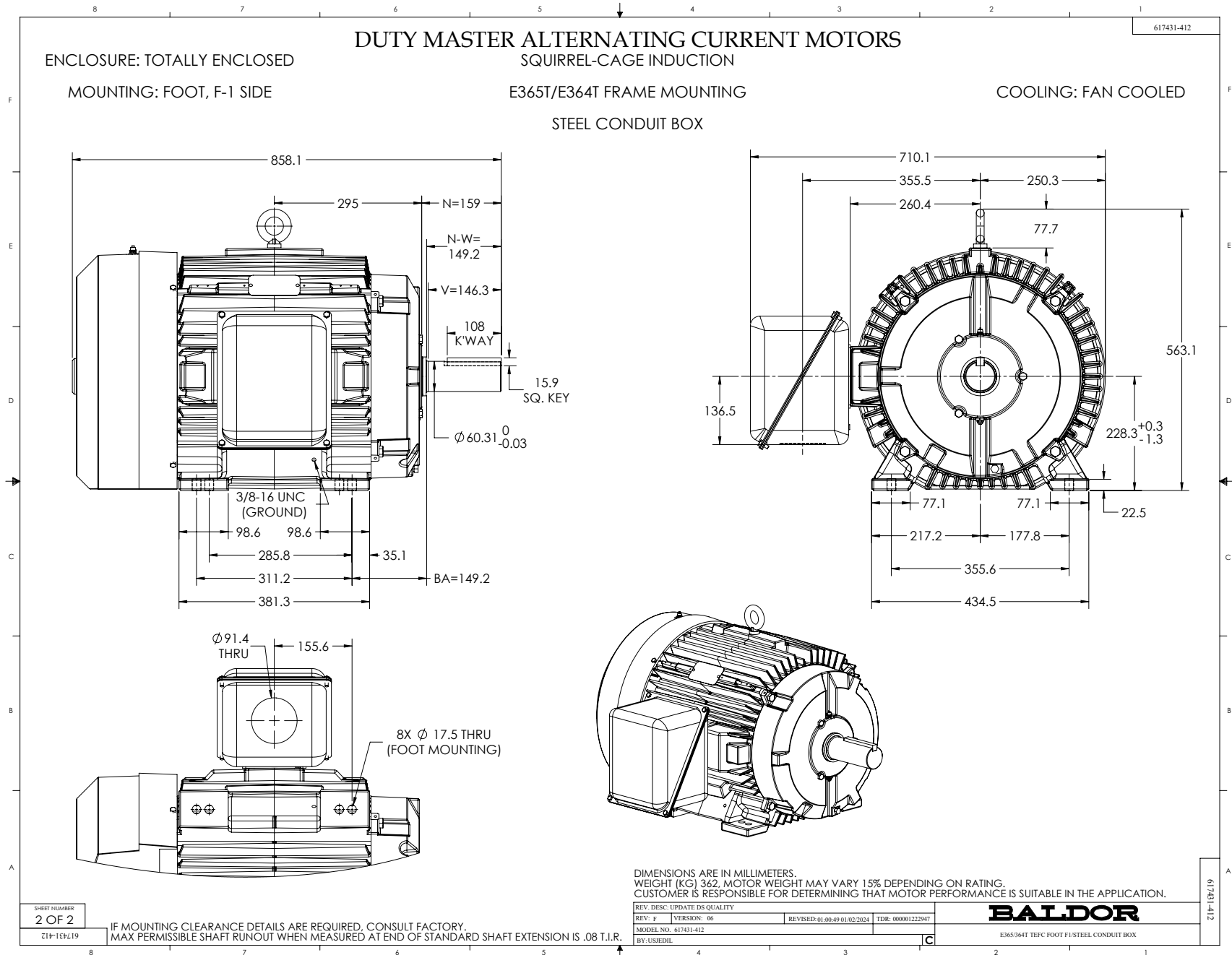
**Nameplate**

|                  |  |
|------------------|--|
| NP2496L          |  |
| MOBIL POLYREX EM |  |

**NP3159L**

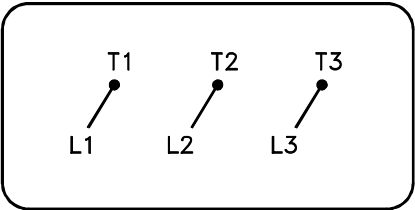
|                   |               |       |      |              |                         |                     |      |                       |              |       |      |
|-------------------|---------------|-------|------|--------------|-------------------------|---------------------|------|-----------------------|--------------|-------|------|
| SPEC NO.          | A36-0052-4086 |       |      | CAT.NO.      | FDEM4314T-5             |                     |      |                       |              | FRAME | 364T |
| HP                | 60            | VOLTS | 575  | PHASE        | 3                       | DESIGN              | B    | TYPE                  | P            |       |      |
| RPM               | 1780          | AMPS  | 55   | HZ           | 60                      | AMB                 | 40   | SF                    | 1.15         |       |      |
| DRIVE END BEARING | 65BC03JGG30A  |       | DUTY | CONT         | INSUL.CLASS             |                     | F    |                       |              |       |      |
| OPP D.E. BEARING  | 65BC03JGG30A  |       | ENCL | TEFC         | CODE                    | G                   |      |                       |              |       |      |
| SER.NO.           |               |       |      | POWER FACTOR | 84                      | NEMA-NOM-EFFICIENCY |      |                       | 95           |       |      |
|                   |               |       |      |              | MAX CORR KVAR           |                     | 13.6 | GUARANTEED EFFICIENCY |              | 94.1  |      |
|                   |               |       |      |              | NEMA NOM/CSA QUOTED EFF |                     |      |                       |              |       |      |
|                   |               |       |      |              |                         |                     |      |                       | MOTOR WEIGHT | 9999  |      |





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