

# ABB BALDOR RELIANCE III

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## Customer information packet

### EM7310T-I

60//50HP, 3560//2960RPM, 3PH, 60//50HZ364TS

Class - CLI GP C,D

Division - Division I

**Specifications**

|                                      |                                                                                        |
|--------------------------------------|----------------------------------------------------------------------------------------|
| <b>Enclosure</b>                     | TEFC                                                                                   |
| <b>Frame</b>                         | 364TS                                                                                  |
| <b>Frame Material</b>                | Iron                                                                                   |
| <b>Frequency</b>                     | 50.00 Hz<br>60.00 Hz                                                                   |
| <b>Haz Area Class and Group</b>      | CLI GP C,D                                                                             |
| <b>Haz Area Division</b>             | Division I                                                                             |
| <b>Motor Letter Type</b>             | Three Phase                                                                            |
| <b>Output @ Frequency</b>            | 50.000 HP @ 50 HZ<br>60.000 HP @ 60 HZ                                                 |
| <b>Phase</b>                         | 3                                                                                      |
| <b>Synchronous Speed @ Frequency</b> | 3600 RPM @ 60 HZ                                                                       |
| <b>Voltage @ Frequency</b>           | 230.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>380.0 V @ 50 HZ<br>460.0 V @ 60 HZ               |
| <b>Agency Approvals</b>              | UL<br>CSA EEV<br>CSA<br>CCSA US                                                        |
| <b>Ambient Temperature</b>           | 40 °C                                                                                  |
| <b>Auxiliary Box</b>                 | NO AUXILLARY BOX                                                                       |
| <b>Base Indicator</b>                | Rigid                                                                                  |
| <b>Bearing Grease Type</b>           | Polyrex EM (-20F +300F)                                                                |
| <b>Current @ Voltage</b>             | 68.300 A @ 380.0 V<br>67.300 A @ 460.0 V<br>137.000 A @ 190.0 V<br>135.000 A @ 230.0 V |
| <b>Design Code</b>                   | B                                                                                      |
| <b>Drip Cover</b>                    | No Drip Cover                                                                          |
| <b>Duty Rating</b>                   | CONT                                                                                   |
| <b>Efficiency @ 100% Load</b>        | 93.6 %                                                                                 |

**Part Detail**

|                     |                |
|---------------------|----------------|
| <b>Revision</b>     | L              |
| <b>Type</b>         | AC             |
| <b>Mech. spec.</b>  |                |
| <b>Base</b>         |                |
| <b>Status</b>       | PRD/A          |
| <b>Elec. spec.</b>  | A36WG0796      |
| <b>Layout</b>       | 611742-675-SH1 |
| <b>Eff. date</b>    | 09-14-2017     |
| <b>CD Diagram</b>   | 416820-002     |
| <b>Poles</b>        | 02             |
| <b>Leads</b>        | 3#4,6#6        |
| <b>Proprietary</b>  | False          |
| <b>Created date</b> | 04-09-2014     |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Feedback Device</b>               | NO FEEDBACK                |
| <b>Haz Area Temp Code</b>            | T3C                        |
| <b>Heater Indicator</b>              | No Heater                  |
| <b>High Voltage Full Load Amps</b>   | 67.3 a                     |
| <b>Insulation Class</b>              | F                          |
| <b>Inverter Code</b>                 | Not Inverter               |
| <b>KVA Code</b>                      | F                          |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs      |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 4 AWG                  |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | A36048M                    |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 2                          |
| <b>Overall Length</b>                | 31.31 IN                   |
| <b>Power Factor</b>                  | 89                         |
| <b>Pulley End Bearing Type</b>       | Ball                       |
| <b>Pulley Face Code</b>              | Standard                   |
| <b>Service Factor</b>                | 1.15                       |
| <b>Shaft Diameter</b>                | 1.875 IN                   |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding         |
| <b>Shaft Rotation</b>                | Reversible                 |
| <b>Shaft Slinger Indicator</b>       | No Slinger                 |
| <b>Speed</b>                         | 2960 rpm<br>3560 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>      | Normally Closed Thermostat |

**Nameplate**

|                     |       |     |  |
|---------------------|-------|-----|--|
| 000613006PC         |       |     |  |
| CLASS I GROUP       | C D X | NO. |  |
| CLASS II GROUP      | X X X |     |  |
| OPERATING TEMP CODE | T3C   |     |  |

**NP2293L**

|                          |                                |              |                      |                            |           |                    |   |                     |       |
|--------------------------|--------------------------------|--------------|----------------------|----------------------------|-----------|--------------------|---|---------------------|-------|
| <b>CAT.NO.</b>           | EM7310T-I                      |              |                      | <b>SPEC NO.</b>            | P36G4708  |                    |   | <b>FRAME</b>        | 364TS |
| <b>HP</b>                | 60//50                         | <b>PHASE</b> | 3                    | <b>DESIGN</b>              | B         | <b>TYPE</b>        | P |                     |       |
| <b>RPM</b>               | 3560//2960                     | <b>HZ</b>    | 60//50               | <b>AMB</b>                 | 40        | <b>SF</b>          |   | 1.15                |       |
| <b>VOLTS</b>             | 230/460//190/380               | <b>DUTY</b>  | CONT                 |                            |           | <b>INSUL.CLASS</b> | F |                     |       |
| <b>AMPS</b>              | 135/67.3//137/68.3             |              |                      | <b>ENCL</b>                | TEFC      | <b>CODE</b>        | F |                     |       |
| <b>DRIVE END BEARING</b> | 65BC03JPP30A                   |              |                      | <b>NEMA-NOM-EFFICIENCY</b> | 93.6      |                    |   |                     |       |
| <b>OPP D.E. BEARING</b>  | 65BC03JPP30A                   |              |                      |                            |           |                    |   |                     |       |
| <b>SER.NO.</b>           |                                |              | NEMA MG-1 PT 5, IP55 |                            |           |                    |   |                     |       |
|                          | SUIT FOR 208V/147 AMPS, 55C AM |              |                      |                            | B @ 1.0SF |                    |   | <b>MOTOR WEIGHT</b> |       |

611742-675-SH1

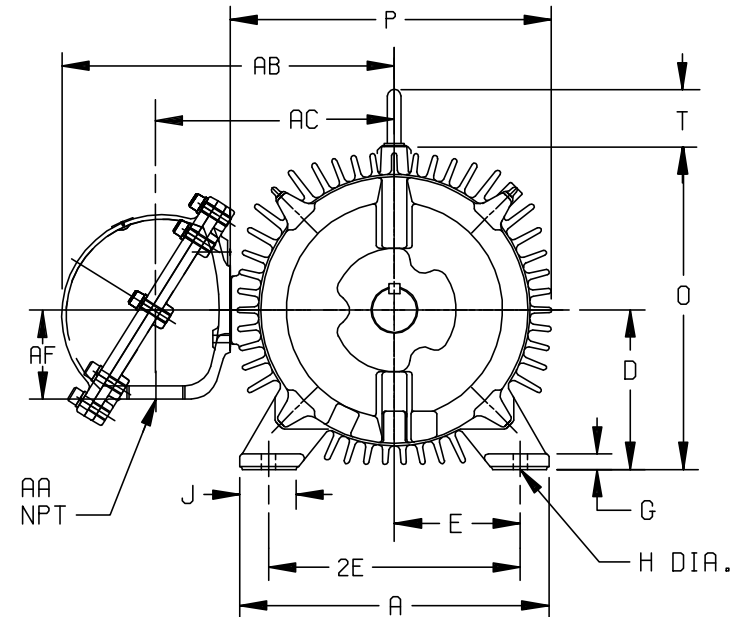
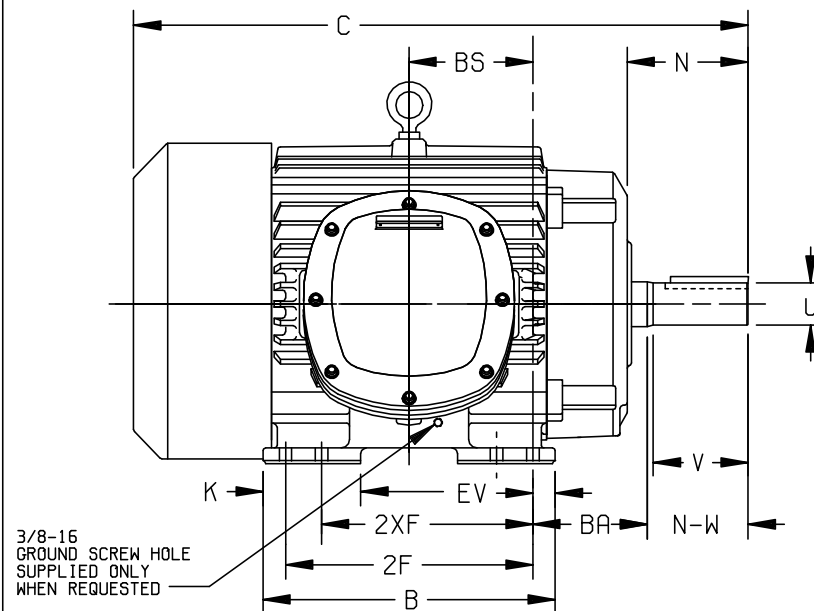
# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED  
UNDERWRITERS LISTED MOTOR  
MOUNTING: FOOT

FRAMES E364T-E365TS

COOLING: FAN COOLED  
BOLTED ON CONDUIT BOX



DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

| FRAME       | A     | D(1) | E    | G   | H   | J    | K    | O     | P     | T    | XP TERMINAL BOX |       |       |      | BA   | EV   |
|-------------|-------|------|------|-----|-----|------|------|-------|-------|------|-----------------|-------|-------|------|------|------|
|             |       |      |      |     |     |      |      |       |       |      | AA              | AB    | AC    | AF   |      |      |
| E364T-365TS | 17.00 | 9.00 | 7.00 | .88 | .69 | 2.75 | 4.00 | 19.11 | 20.25 | 2.94 | 3               | 20.88 | 15.17 | 5.40 | 5.88 | 1.38 |

| FRAME SIZE | C     | BS   | B     | 2F    | (3) 2XF | N    | SHAFT AND KEY |       |      |      |       | WEIGHT LBS. (4) |
|------------|-------|------|-------|-------|---------|------|---------------|-------|------|------|-------|-----------------|
|            |       |      |       |       |         |      | N-W(5)        | U(2)  | V    | SQ.  | LGTH. |                 |
| E364T      | 33.44 | 6.12 | 15.00 | ---   | 11.25   | 6.00 | 5.88          | 2.375 | 5.62 | .625 | 4.25  | 910             |
| E364TS     | 31.31 | 6.12 | 15.00 | ---   | 11.25   | 3.88 | 3.75          | 1.875 | 3.50 | .500 | 2.00  | 904             |
| E365T      | 33.44 | 6.12 | 15.00 | 12.25 | ---     | 6.00 | 5.88          | 2.375 | 5.62 | .625 | 4.25  | 950             |
| E365TS     | 31.31 | 6.12 | 15.00 | 12.25 | ---     | 3.88 | 3.75          | 1.875 | 3.50 | .500 | 2.00  | 944             |

- (1) "D" VARIES +.00, -.06.
- (2) "U" VARIES +.000, -.001.
- (3) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (4) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (5) "N-W" VARIES +.00, -.25.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2,W-1, W-4,W-5,W-7, OR C-1 MOUNTING IS SPECIFIED.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .003

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

|                                              |                              |                   |
|----------------------------------------------|------------------------------|-------------------|
| REV. DESC: NEW FOR 360 FRAME STOCK XP MOTORS |                              |                   |
| REV. LTR: -                                  | VERSION: 00                  | TDR: 000000869122 |
| FILE: \RAG\00020\724                         | REVISED: 10:25:23 08/28/2014 | BY: RAGFBR        |
| MTL: -                                       |                              |                   |

**BALDOR**

DIM SHT FCXP FT E360T BOLTED ON C/B W/3"NPT GROUP C&D

SH 1 of 1

611742-675-SH1

611742-675-SH2

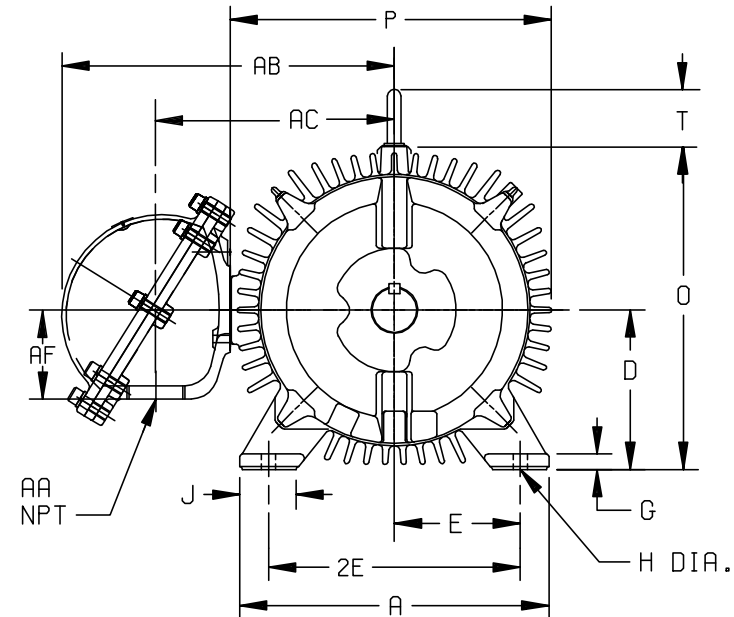
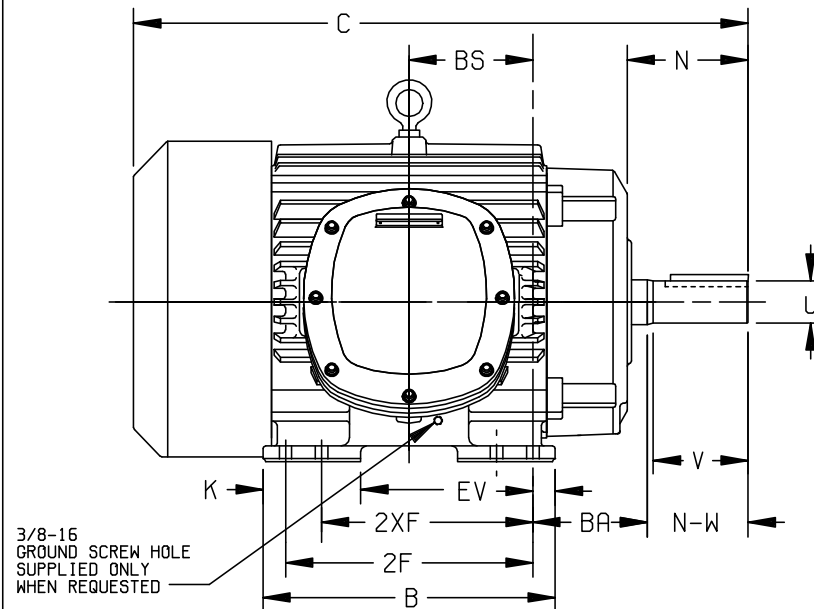
# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED  
UNDERWRITERS LISTED MOTOR  
MOUNTING: FOOT

FRAMES E364T-E365TS

COOLING: FAN COOLED  
BOLTED ON CONDUIT BOX



DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

| FRAME        | A     | D(1)  | E     | G    | H    | J    | K     | O     | P     | T    | XP TERMINAL BOX |       |       |       | BA    | EV   |
|--------------|-------|-------|-------|------|------|------|-------|-------|-------|------|-----------------|-------|-------|-------|-------|------|
|              |       |       |       |      |      |      |       |       |       |      | AA              | AB    | AC    | AF    |       |      |
| E364T-E365TS | 431.8 | 228.6 | 177.8 | 22.4 | 17.5 | 69.9 | 101.6 | 469.9 | 514.4 | 74.7 | 76.2            | 530.4 | 385.3 | 137.2 | 149.4 | 35.1 |

| FRAME SIZE | C     | BS    | B     | 2F    | (3) 2XF | N     | SHAFT AND KEY |       |       |       |       | WEIGHT LBS. (4) |
|------------|-------|-------|-------|-------|---------|-------|---------------|-------|-------|-------|-------|-----------------|
|            |       |       |       |       |         |       | N-W(5)        | U(2)  | V     | SQ.   | LGTH. |                 |
| E364T      | 849.4 | 155.4 | 381.0 | ---   | 285.7   | 152.4 | 149.4         | 60.33 | 142.7 | 15.88 | 108.0 | 412             |
| E364TS     | 795.3 | 155.4 | 381.0 | ---   | 285.7   | 98.6  | 95.3          | 47.63 | 88.9  | 12.70 | 50.8  | 410             |
| E365T      | 849.4 | 155.4 | 381.0 | 311.1 | ---     | 152.4 | 149.4         | 60.33 | 142.7 | 15.88 | 108.0 | 430             |
| E365TS     | 795.3 | 155.4 | 381.0 | 311.1 | ---     | 98.6  | 95.3          | 47.63 | 88.9  | 12.70 | 50.8  | 428             |

- (1) "D" VARIES +.0, -1.5.
- (2) "U" VARIES +.00, -.03.
- (3) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (4) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (5) "N-W" VARIES +.0, -6.4.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2,W-1, W-4,W-5,W-7, OR C-1 MOUNTING IS SPECIFIED.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .08.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

|                                              |                              |                   |
|----------------------------------------------|------------------------------|-------------------|
| REV. DESC: NEW FOR 360 FRAME STOCK XP MOTORS |                              |                   |
| REV. LTR: -                                  | VERSION: 00                  | TDR: 000000869122 |
| FILE: \RAG\00020\728                         | REVISED: 10:52:43 08/28/2014 | BY: RAGFBR        |
| MTL: -                                       |                              |                   |

**BALDOR**

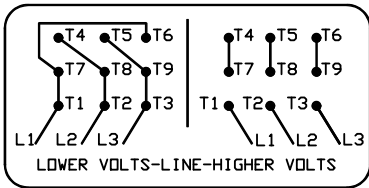
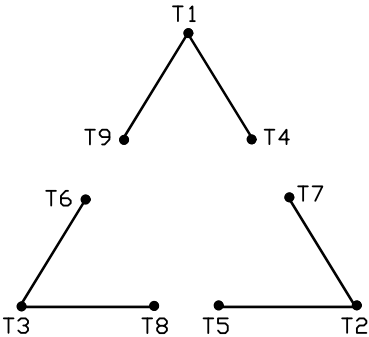
DIM SHT FCXP FT E360T BOLTED ON C/B W/3"NPT GROUP C&D

SH 1 of 1

611742-675-SH2

416820-002

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 9 LEAD DELTA-CONNECTED



( N. P. 1575-B )

416820-002

|                                 |                              |                   |
|---------------------------------|------------------------------|-------------------|
| REV. DESC: ADJUST TEXT DARKNESS |                              |                   |
| REV. LTR: B                     | VERSION: 02                  | TDR: 000001285318 |
| FILE: \RAG\00022\453            | REVISED: 09:36:26 09/24/2026 | BY: USJOSUL       |
| MTL: -                          |                              |                   |



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1