

# ABB BALDOR RELIANCE III

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## Customer information packet

### EM2551T-8

75HP, 1780RPM, 3PH, 60HZ, 365T, A36056M, DP, F1

Class - None

Division - Not Applicable

**Specifications**

|                               |                         |
|-------------------------------|-------------------------|
| Enclosure                     | DP                      |
| 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           | 200.0 V @ 60 HZ         |
| Agency Approvals              | CURUSEEV                |
| Ambient Temperature           | 40 °C                   |
| Auxiliary Box                 | NO AUXILLARY BOX        |
| Base Indicator                | Rigid                   |
| Bearing Grease Type           | Polyrex EM (-20F +300F) |
| Current @ Voltage             | 202.000 A @ 200.0 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   | 202.0 a                 |
| Insulation Class              | F                       |
| Inverter Code                 | Inverter Ready          |
| KVA Code                      | G                       |
| Lifting Lugs                  | No Lifting Lugs         |
| Motor Lead Quantity/Wire Size | 6 @ 6 AWG               |
| Motor Standards               | Other                   |
| Motor Type                    | A3658M                  |
| Mounting Arrangement          | F1                      |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | M          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A36WG4210  |
| Layout       | 617428-130 |
| Eff. date    | 09-29-2025 |
| CD Diagram   | CD0695     |
| Poles        | 04         |
| Leads        | 6#6        |
| Proprietary  | False      |
| Created date | 09-23-2011 |

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Number of Poles</b>          | <b>4</b>                  |
| <b>Overall Length</b>           | <b>29.70 IN</b>           |
| <b>Power Factor</b>             | <b>84</b>                 |
| <b>Product Family</b>           | <b>Other</b>              |
| <b>Pulley End Bearing Type</b>  | <b>Ball</b>               |
| <b>Pulley Face Code</b>         | <b>Standard</b>           |
| <b>Service Factor</b>           | <b>1.15</b>               |
| <b>Shaft Diameter</b>           | <b>2.374 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>Shaft Slinger</b>      |
| <b>Speed</b>                    | <b>1785 rpm</b>           |
| <b>Speed Code</b>               | <b>Single Speed</b>       |
| <b>Starting Method</b>          | <b>Part Winding</b>       |
| <b>Thermal Device - Bearing</b> | <b>None</b>               |
| <b>Thermal Device - Winding</b> | <b>None</b>               |

**Nameplate**

| NP2377L                  |            |                                |      |                              |                 |                            |    |               |      |  |  |  |  |
|--------------------------|------------|--------------------------------|------|------------------------------|-----------------|----------------------------|----|---------------|------|--|--|--|--|
| <b>CAT.NO.</b>           | EM2551T-8  |                                |      |                              | <b>SPEC NO.</b> | P36G3422                   |    |               |      |  |  |  |  |
| <b>HP</b>                | 75         | <b>AMPS</b>                    | 202  |                              | <b>VOLTS</b>    | 200                        |    | <b>DESIGN</b> | B    |  |  |  |  |
| <b>FRAME</b>             | 365T       | <b>RPM</b>                     | 1785 | <b>HZ</b>                    | 60              | <b>AMB</b>                 | 40 | <b>SF</b>     | 1.15 |  |  |  |  |
| <b>DRIVE END BEARING</b> | 65BC03J30X | <b>PHASE</b>                   | 3    | <b>DUTY</b>                  | CONT            | <b>INSUL.CLASS</b>         | F  |               |      |  |  |  |  |
| <b>OPP D.E. BEARING</b>  | 65BC03J30X | <b>TYPE</b>                    | P    | <b>ENCL</b>                  | DP              | <b>CODE</b>                | G  |               |      |  |  |  |  |
| <b>SER.NO.</b>           |            | <b>POWER FACTOR</b>            | 84   |                              |                 | <b>NEMA-NOM-EFFICIENCY</b> | 95 |               |      |  |  |  |  |
|                          |            | <b>MAX CORR KVAR</b>           | 19   | <b>GUARANTEED EFFICIENCY</b> | 94.1            |                            |    |               |      |  |  |  |  |
|                          |            | <b>NEMA NOM/CSA QUOTED EFF</b> |      |                              |                 |                            |    |               |      |  |  |  |  |
|                          |            | <b>MOTOR WEIGHT</b>            |      |                              |                 |                            |    |               |      |  |  |  |  |

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

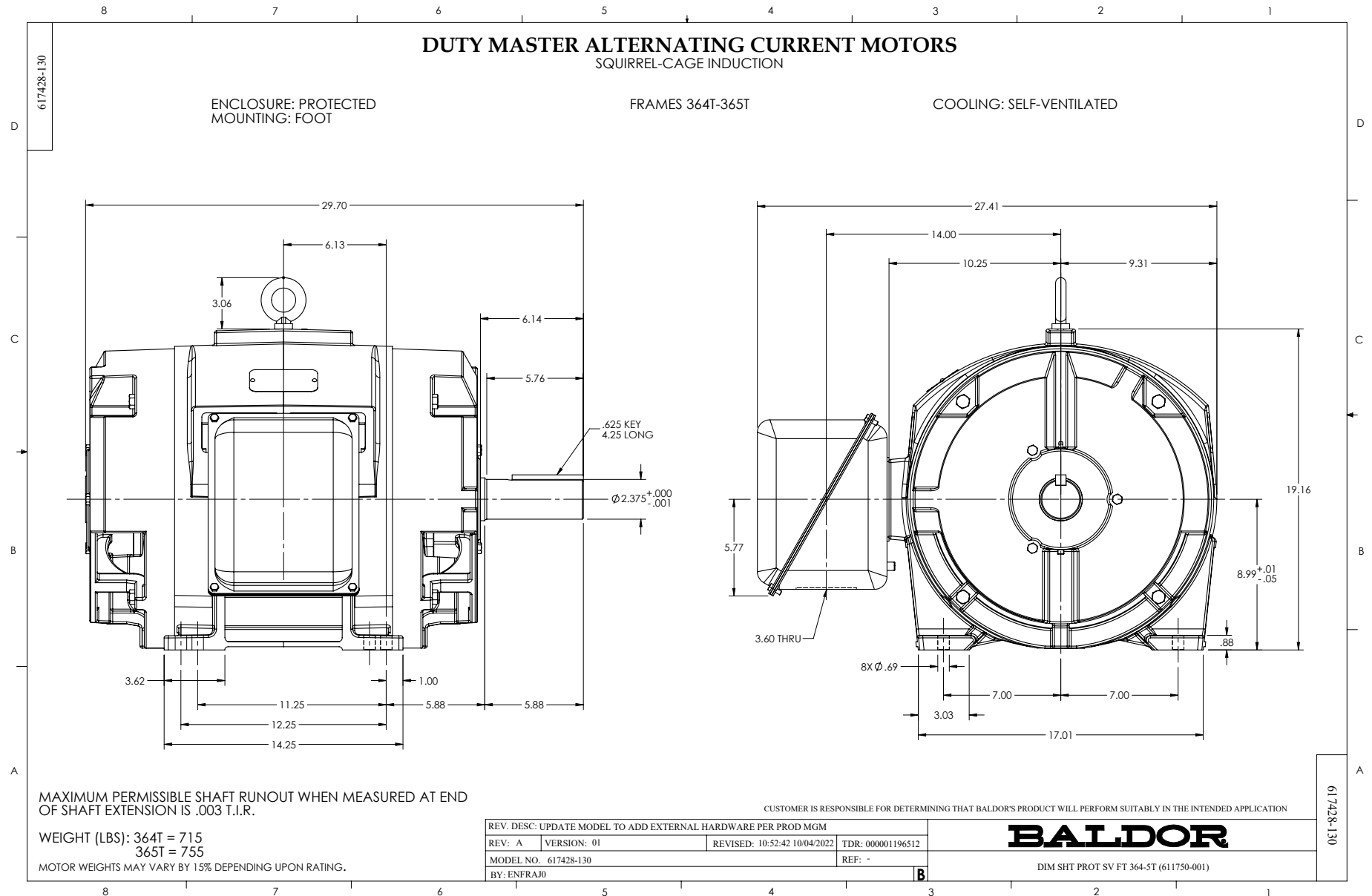
**Parts List**

| Part number | Description                          | Quantity |
|-------------|--------------------------------------|----------|
| SA231159    | SA P36G3422                          | 1.000 ea |
| RA218176    | RA P36G3422                          | 1.000 ea |
| NP2377L     | SS SUPER-E, CC, CURUS ENERGY (LASER) | 1.000 ea |
| 034180034HA | KEY 5/8X5/8X4-1/4 L                  | 1.000 ea |
| 415045002E  | SLGR                                 | 1.000 ea |
| 032376004JB | RHMS 10-32X1/2PLTD-360               | 3.000 ea |
| 032376004JB | RHMS 10-32X1/2PLTD-360               | 3.000 ea |
| HW1000A32   | 5/16 FL WASHER WIDE,ID=.344,OD=1.125 | 3.000 ea |
| 032509020C  | CARRIAGE BOLT - 360                  | 3.000 ea |
| 421948058   | LABEL, MYLAR                         | 1.000 ea |
| 034690002AB | PPLG 1/4" PLTD.                      | 1.000 ea |
| 034017009AB | LCKW NO.10 PLATED-360                | 3.000 ea |
| 034001009AB | WSHR #10 PLATED-360                  | 3.000 ea |
| 085920052A  | BRKT 360 085920051WCC KB             | 1.000 ea |
| 085920052A  | BRKT 360 085920051WCC KB             | 1.000 ea |
| 078556001A  | BAFFL 360 SUB PAINT                  | 1.000 ea |
| 032018028DK | HHCS 1/2-13X3-1/2 PLTD.              | 4.000 ea |
| 032018024CK | HHCS 3/8-16X3 PLTD.                  | 3.000 ea |
| 076708000BB | CONDUIT BOX-360                      | 1.000 ea |
| 065776000C  | GASKET,MAIN CBOX, 320-400            | 1.000 ea |
| 076709000A  | C/B Cover - 360                      | 1.000 ea |
| 067053000B  | GASK 320-400                         | 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 |
| 415000115H  | T/LUG #2AWG-4/0AWG                   | 1.000 ea |
| 078556001A  | BAFFL 360 SUB PAINT                  | 1.000 ea |
| 032018028DK | HHCS 1/2-13X3-1/2 PLTD.              | 4.000 ea |
| 048897010DG | PLUG,ODE BRKT - 360                  | 1.000 ea |
| 406055001E  | GRFTG - 440                          | 1.000 ea |
| 034017009AB | LCKW NO.10 PLATED-360                | 3.000 ea |

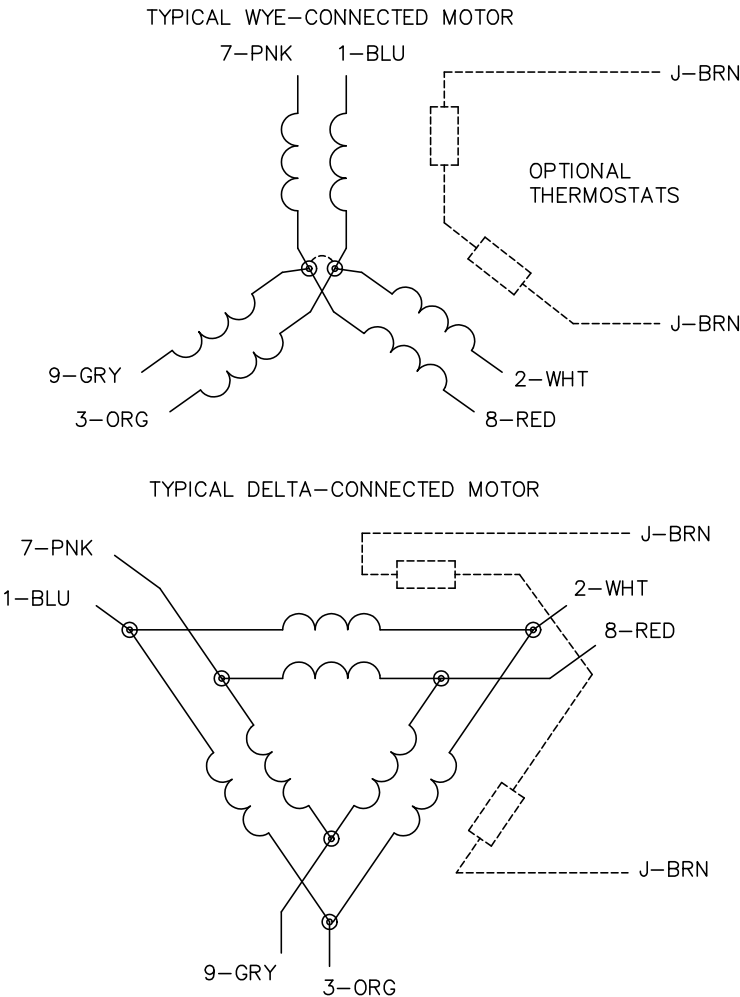
|             |                                       |          |
|-------------|---------------------------------------|----------|
| 032018024CK | HHCS 3/8-16X3 PLTD.                   | 3.000 ea |
| 034001009AB | WSHR #10 PLATED-360                   | 3.000 ea |
| 035000001A  | ALFTG 1/8" 1610-BL                    | 1.000 ea |
| 035000001A  | ALFTG 1/8" 1610-BL                    | 1.000 ea |
| 034690002AB | PPLG 1/4" PLTD.                       | 1.000 ea |
| 410700004F  | WSHR                                  | 1.000 ea |
| 033775004EA | DRSCR #6-1/4 304 S.S.                 | 2.000 ea |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABEL | 1.000 ea |
| 000692000VD | LABEL WARNING                         | 1.000 ea |
| 004824015A  | GREASE POLYREX EM                     | 0.540 lb |
| MG1025Y17   | WILKOFAS, 789.701, SUPER E PEARL GOLD | 0.250 ga |
| NP2496L     | MOTOR LUBE NAMEPLATE                  | 1.000 ea |
| 14PA1000    | PACKAGING 314 GROUP COMBINED PRINT    | 1.000 ea |
| 032018005DL | 1/2-13 X 5/8 SILICON BRONZE HHCS      | 1.000 ea |

**Accessories**

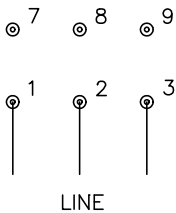
| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 14-1401       | C FACE KIT   |            |
| 14EP1601A01SP | D-FLANGE KIT |            |



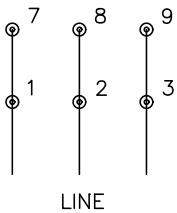
CD0695



START CONNECTION



RUN CONNECTION



- NOTES:
- 1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
  - 2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
  - 5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                        |              |
|-------------------------------------------|---------|------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                        |              |
| REV. LTR: C                               | BY: JLP | REVISED: 01/21/99 3:19 | TDR: 0171435 |
| S69000                                    |         | FILE: AAA00005151      | MDL: -       |
|                                           |         | MTL: -                 |              |

**BALDOR ELECTRIC Co.**

3PH, SV, 6 LEADS, PART WINDING START

CD0695