

# ABB BALDOR RELIANCE III

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## Customer information packet

### CHM365A

.5HP, 1140RPM, 3PH, 60HZ, 56YZ, 3418M, TEAO, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TEAO                                                        |
| <b>Frame</b>                          | 56YZ                                                        |
| <b>Frame Material</b>                 | Steel                                                       |
| <b>Frequency</b>                      | 60.00 Hz                                                    |
| <b>Haz Area Class and Group</b>       | None                                                        |
| <b>Haz Area Division</b>              | Not Applicable                                              |
| <b>Motor Letter Type</b>              | Three Phase                                                 |
| <b>Output @ Frequency</b>             | .500 HP @ 60 HZ                                             |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1200 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| <b>Agency Approvals</b>               | UR<br>CSA                                                   |
| <b>Ambient Temperature</b>            | 40 °C                                                       |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                            |
| <b>Auxiliary Box Lead Termination</b> | None                                                        |
| <b>Base Indicator</b>                 | Resilient                                                   |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                     |
| <b>Blower</b>                         | None                                                        |
| <b>Current @ Voltage</b>              | 1.200 A @ 460.0 V<br>2.400 A @ 230.0 V<br>2.700 A @ 208.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 72.0 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Front Face Code</b>                | Resilient Mount                                             |
| <b>Front Shaft Indicator</b>          | None                                                        |
| <b>Heater Indicator</b>               | No Heater                                                   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | M          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 34M249     |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 34WGW529   |
| <b>Layout</b>       | 34LYM249   |
| <b>Eff. date</b>    | 10-28-2024 |
| <b>CD Diagram</b>   | CD0007     |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 12#18      |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 05-24-2013 |

|                               |                             |
|-------------------------------|-----------------------------|
| High Voltage Full Load Amps   | 1.2 a                       |
| Insulation Class              | B                           |
| Inverter Code                 | Not Inverter                |
| KVA Code                      | J                           |
| Lifting Lugs                  | No Lifting Lugs             |
| Locked Bearing Indicator      | No Locked Bearing           |
| Motor Lead Exit               | Terminal Panel Or Lead Hole |
| Motor Lead Quantity/Wire Size | 12 @ 18 AWG                 |
| Motor Lead Termination        | Flying Leads                |
| Motor Standards               | NEMA                        |
| Motor Type                    | 3418M                       |
| Mounting Arrangement          | F1                          |
| Number of Poles               | 6                           |
| Overall Length                | 12.70 IN                    |
| Power Factor                  | 55                          |
| Product Family                | General Purpose             |
| Pulley End Bearing Type       | Ball                        |
| Pulley Face Code              | Resilient Mount             |
| Pulley Shaft Indicator        | Standard                    |
| Rodent Screen                 | None                        |
| RoHS Status                   | ROHS COMPLIANT              |
| Service Factor                | 1.25                        |
| Shaft Diameter                | 0.625 IN                    |
| Shaft Extension Location      | Pulley End                  |
| Shaft Ground Indicator        | No Shaft Grounding          |
| Shaft Rotation                | Reversible                  |
| Shaft Slinger Indicator       | No Slinger                  |
| Speed                         | 1140 rpm                    |
| Speed Code                    | Single Speed                |
| Starting Method               | Direct on line              |
| Thermal Device - Bearing      | None                        |
| Thermal Device - Winding      | None                        |
| Vibration Sensor Indicator    | No Vibration Sensor         |
| Winding Thermal 1             | Automatic Thermal Overload  |

**Winding Thermal 1 Location**

**SB**

**Nameplate**

| NP1257L      |              |      |  |    |      |  |    |    |    |   |   |  |
|--------------|--------------|------|--|----|------|--|----|----|----|---|---|--|
| CAT.NO.      | CHM365A      |      |  |    |      |  |    |    |    |   |   |  |
| SPEC.        | 34M249W529G1 |      |  |    |      |  |    |    |    |   |   |  |
| HP           | .5           |      |  |    |      |  |    |    |    |   |   |  |
| VOLTS        | 230/460      |      |  |    |      |  |    |    |    |   |   |  |
| AMP          | 2.4/1.2      |      |  |    |      |  |    |    |    |   |   |  |
| RPM          | 1140         |      |  |    |      |  |    |    |    |   |   |  |
| FRAME        | 56YZ         |      |  |    | HZ   |  | 60 |    | PH |   | 3 |  |
| SER.F.       | 1.25         | CODE |  | J  | DES  |  | B  | CL |    | B |   |  |
| NEMA-NOM-EFF | 72           | PF   |  | 55 |      |  |    |    |    |   |   |  |
| RATING       | 40C AMB-CONT |      |  |    |      |  |    |    |    |   |   |  |
| CC           |              |      |  |    |      |  |    |    |    |   |   |  |
| DE           | 6203         | ODE  |  |    | 6203 |  |    |    |    |   |   |  |
| ENCL         | TEAO         | SN   |  |    |      |  |    |    |    |   |   |  |
|              | SFA 2.6/1.3  |      |  |    |      |  |    |    |    |   |   |  |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA263603      | SA 34M249W529G1                          | 1.000 ea |
| RA250320      | RA 34M249W529G1                          | 1.000 ea |
| 11XW0832G06   | #8-32 X 3/8, TAPTITE II, HEX WSHR SLTD   | 1.000 ea |
| LD5000A52     | LEAD ASSY W/INTERNAL STAR RING TERMINALS | 1.000 ea |
| 11XT1032A06   | 10-32 X 3/8 HX WSHR HD SLTD TYPE 23      | 2.000 ea |
| 34EP3204A01SP | FR ENDPLATE, MACH                        | 1.000 ea |
| WD4100A01     | DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS | 1.000 ea |
| RM1001A01     | GROMMET "MIDSTATES"                      | 1.000 ea |
| SP1000A09     | TERM BOARD, MODEL 34 SW, (RPL SP1000A01) | 1.000 ea |
| RM1000A03     | CUSHION RING, MDL 17-33-34               | 1.000 ea |
| HA6004A01A    | CLAMP CUSHION RING ASSY                  | 1.000 ea |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 34EP3205B01   | PU ENDPLATE, MACH                        | 1.000 ea |
| RM1000A03     | CUSHION RING, MDL 17-33-34               | 1.000 ea |
| HA6004A01A    | CLAMP CUSHION RING ASSY                  | 1.000 ea |
| XY0832A02     | 8-32 HEX NUT                             | 4.000 ea |
| 34CB4501SP    | TERMINAL BOX LID, STAMPED X (PLATED)     | 1.000 ea |
| 34GS1005      | GASKET, TERM PLATE LID                   | 1.000 ea |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| HW2501D13     | KEY, 3/16 SQ X 1.375                     | 1.000 ea |
| HA7000A04     | KEY RETAINER 0.625 DIA SHAFTS            | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| HW1000A08     | #8 SAE FLAT WASHER                       | 4.000 ea |
| MG1050G01     | CELEROL MEDIUM CHARCOAL METALLIC GRAY    | 0.014 ga |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| 34BA4003J01   | RESILIENT BASE, MODEL 34 NEMA 56         | 1.000 ea |
| HA3169A21     | THRUBOLT #8-32 THDS X 8.94 LONG          | 4.000 ea |
| LB1118        | LABEL,WARNING (ROLL LABEL)               | 1.000 ea |
| MN416A01      | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| LC0007        | CONNECTION LABEL                         | 1.000 ea |

|          |                            |          |
|----------|----------------------------|----------|
| NP1257L  | ALUM UL CC THERMAL REV MTG | 1.000 ea |
| 36PA1000 | PKG GRP, PRINT PK1016A08   | 1.000 ea |

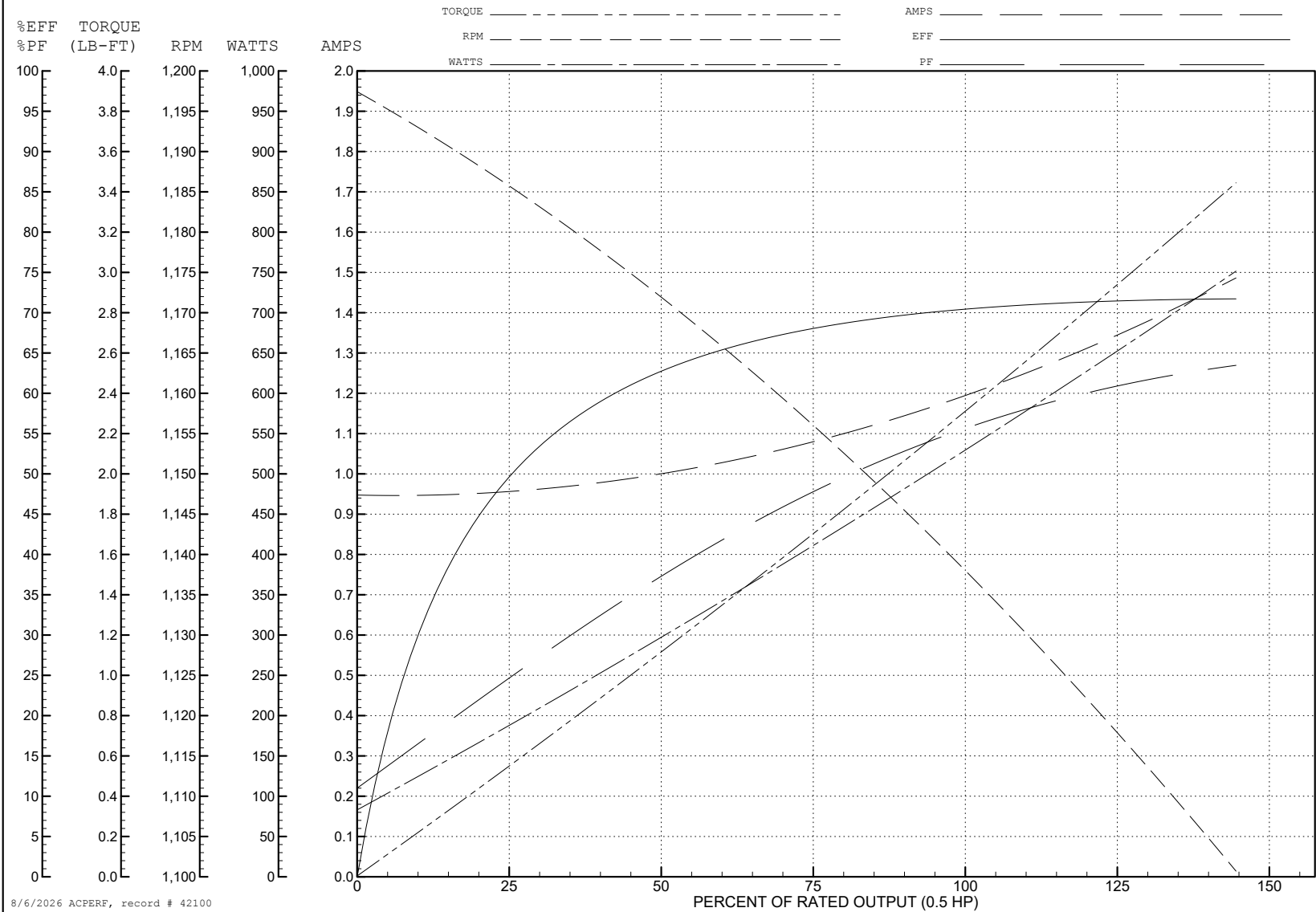
ABB Motors and Mechanical Inc.

WINDING # 34WGW529

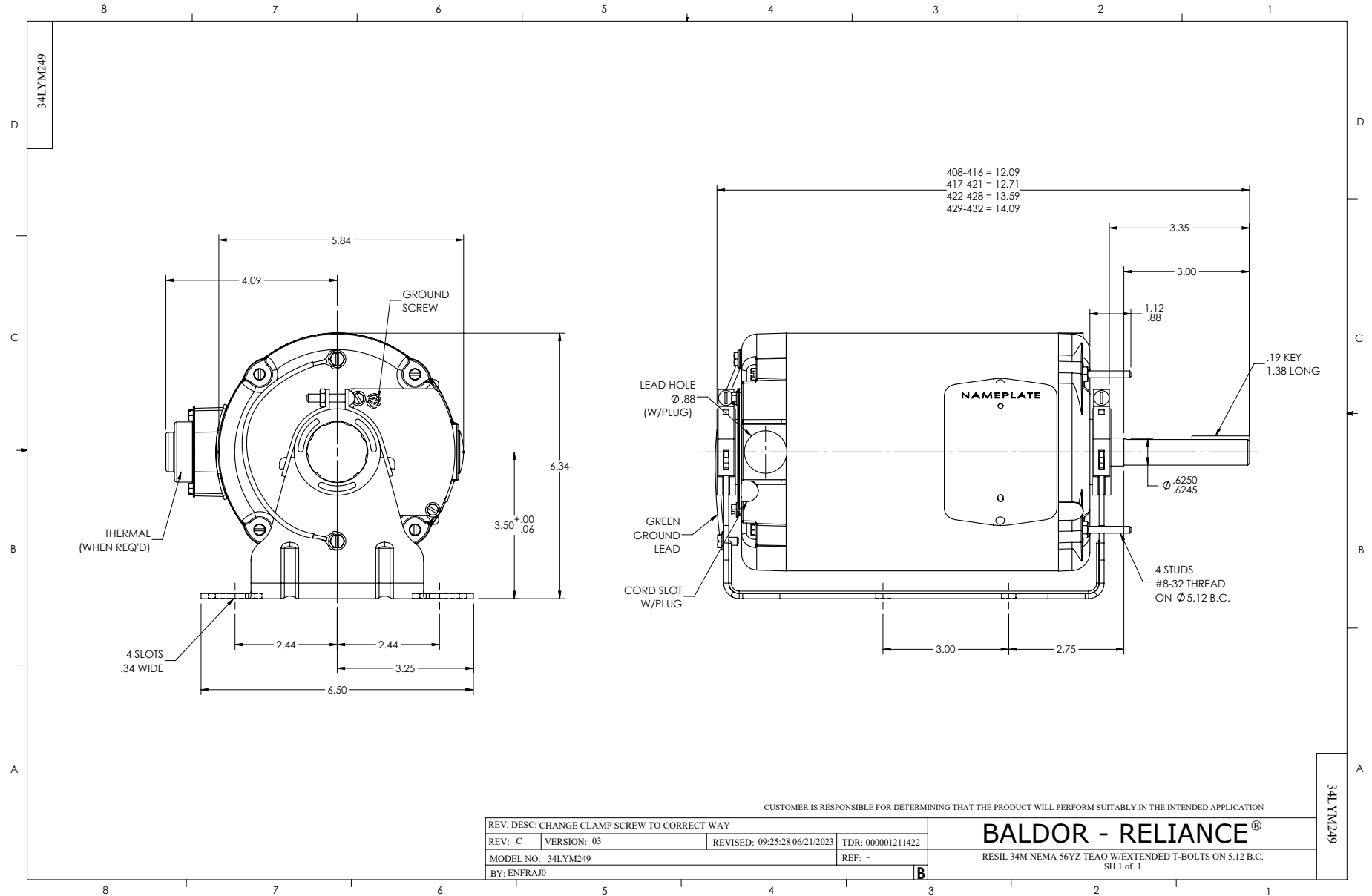
0.5 HP 3 PH 60 HZ 1140 RPM 460 V 3418M

Typical performance - not guaranteed values.

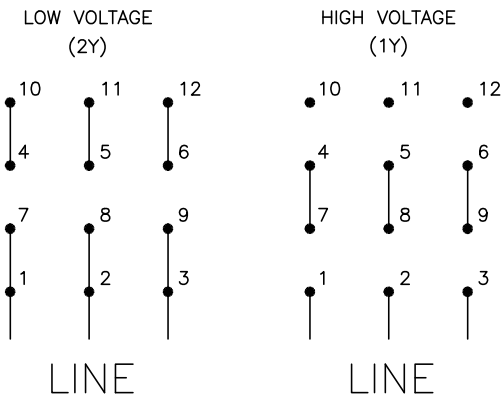
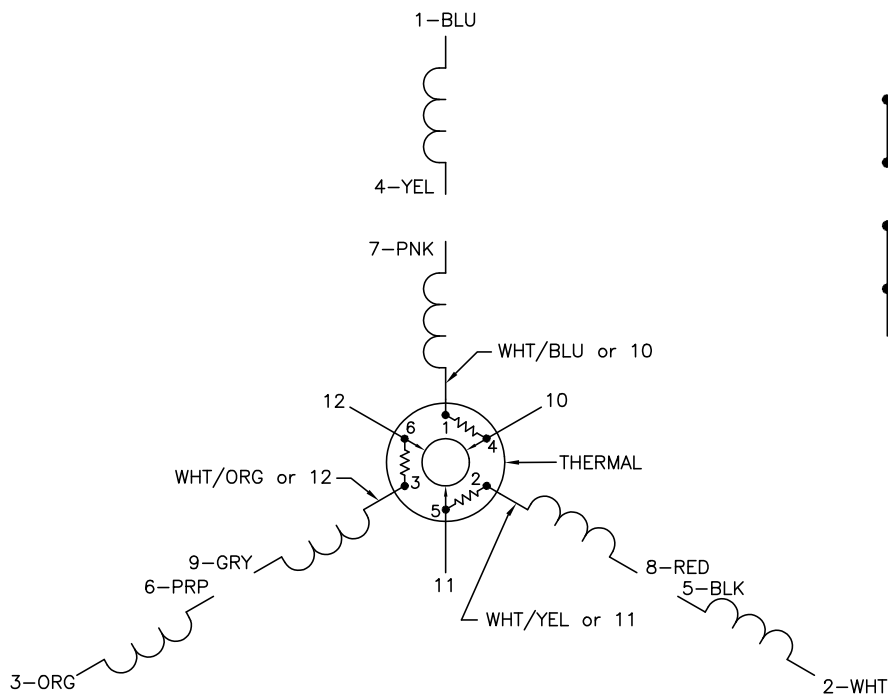
TORQUES (LB-FT) : PO=7.7 PU=6 LR=6.2 LRA=5







CD0007



- NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
  3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                  |         |                        |              |
|----------------------------------|---------|------------------------|--------------|
| REV. DESC: ADDED "CK" PLANT CODE |         |                        |              |
| REV. LTR: E                      | BY: EAH | REVISED: 05/06/99 17:1 | TDR: 0181040 |
| 200000                           |         | FILE: AAA00008370      | MDL: -       |
|                                  |         | MTL: -                 |              |

**BALDOR ELECTRIC Co.**

3PH, DV, THERMAL, 12 LEADS

CD0007