BALDOR • RELIANCE

# Customer information packet

RL1304A277

.5HP/1725RPM/1PH/OPEN/NEMA 56
Class - None
Division - Not Applicable


5/12/2025 1:41:25 AM

## Specifications

| | |
|---|---|
| **Enclosure** | OPEN |
| **Frame** | 56 |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Induction Run |
| **Output @ Frequency** | .500 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 277.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **Ambient Temperature** | 40 °C |
| **Auxillary Box** | No Auxillary Box |
| **Auxillary Box Lead Termination** | None |
| **Base Indicator** | Resilient |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 3.600 A @ 277.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 62.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Resilient Mount |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.6 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |

## Part detail

| | |
|---|---|
| **Revision** | Y |
| **Type** | AC |
| **Mech. spec.** | 34L033 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGW310 |
| **Layout** | 34LYL033 |
| **Eff. date** | 09-18-2023 |
| **CD Diagram** | CD0085 |
| **Poles** | 04 |
| **Leads** | 5#18 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Terminal Panel |
| **Motor Lead Quantity/Wire Size** | 5 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3418L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.59 IN |
| **Power Factor** | 61 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Resilient Mount |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.25 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible: Connected Standard |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1725 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 |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1257L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | RL1304A277 | | | | | | | | |
| **SPEC.** | 34L33W310 | | | | | | | | |
| **HP** | .5 | | | | | | | | |
| **VOLTS** | 277 | | | | | | | | |
| **AMP** | 3.6 | | | | | | | | |
| **RPM** | 1725 | | | | | | | | |
| **FRAME** | 56 | | **HZ** | 60 | | **PH** | 1 | | |
| **SER.F.** | 1.25 | **CODE** | K | **DES** | N | **CL** | B | | |
| **NEMA-NOM-EFF** | 62 | **PF** | 61 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | | |
| | SFA 4 | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 6948
Typical performance - not guaranteed values

| **Winding:** 34WGW310-R001 | **Type:** 3418L | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | **277 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|
| **Rated Output (HP)** | | .5 | **Full Load Torque** | 1.5 LB-FT |
| **Volts** | | 277 | **Start Configuration** | direct on line |
| **Full Load Amps** | | 3.6 | **Breakdown Torque** | 4.35 LB-FT |
| **R.P.M.** | | 1725 | **Pull-up Torque** | 3.75 LB-FT |
| **Hz** | 60 **Phase** | 1 | **Locked-rotor Torque** | 5.03 LB-FT |
| **NEMA Design Code** | N **KVA Code** | K | **Starting Current** | 15.5 A |
| **Service Factor (S.F.)** | | 1.25 | **No-load Current** | 2.8 A |
| **NEMA Nom. Eff.** | 62 **Power Factor** | 61 | **Line-line Res. @ 25ºC** | 6.38 Ω A Ph<br>18.2 Ω B Ph |
| **Rating - Duty** | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 59°C |
| **S.F. Amps** | | 4 | **Temp. Rise @ S.F. Load** | 68°C |

**Load Characteristics 277 V, 60 Hz, 0.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 30 | 42 | 53 | 62 | 69 | 77 | 69 |
| **Efficiency** | 36 | 52 | 60 | 64 | 65 | 65 | 65 |
| **Speed** | 1780 | 1765 | 1750 | 1730 | 1711 | 1685 | 1711 |
| **Line amperes** | 2.9 | 3 | 3.2 | 3.5 | 3.8 | 4.3 | 3.8 |

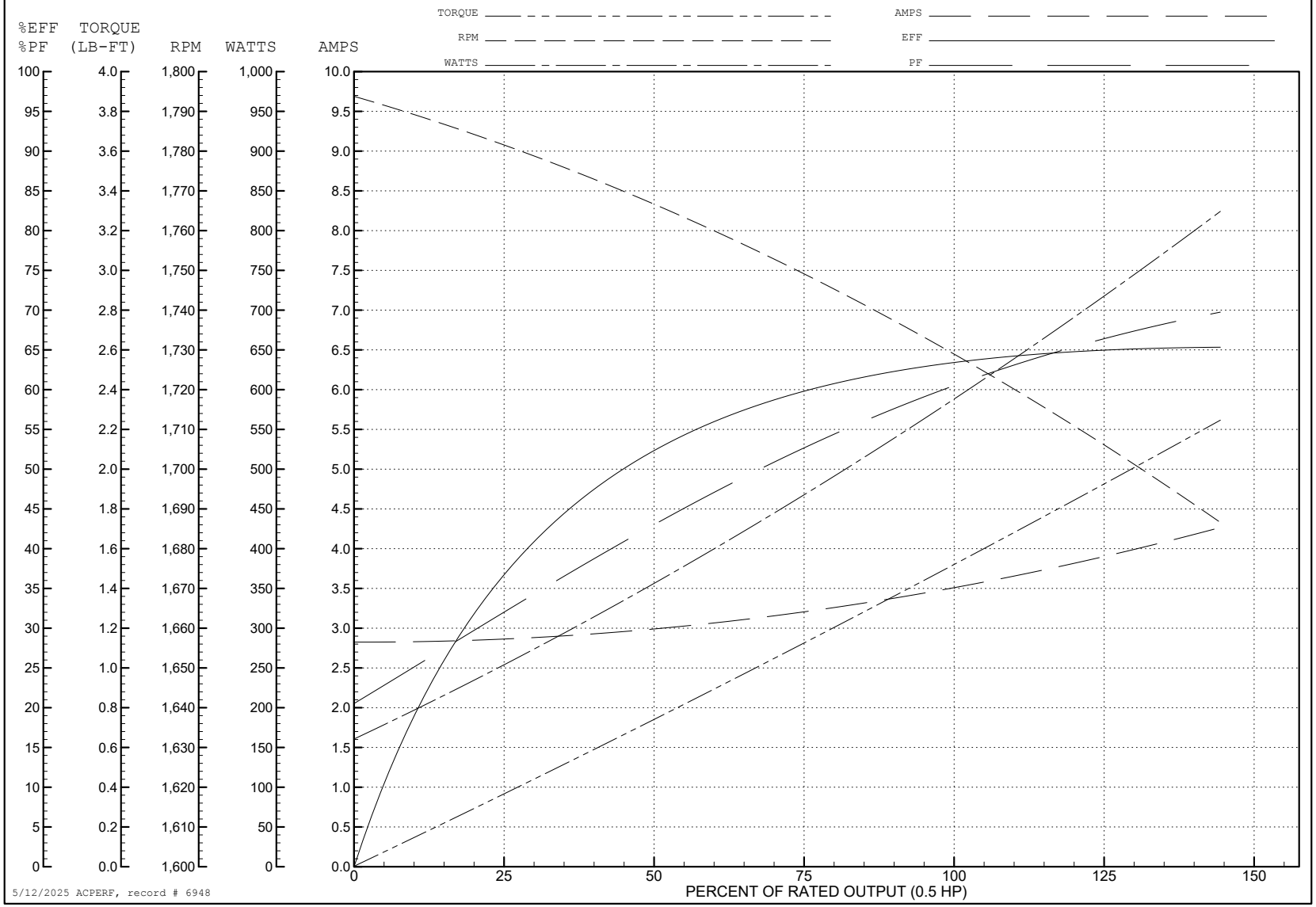
ABB Motors and Mechanical Inc.

WINDING # 34WGW310

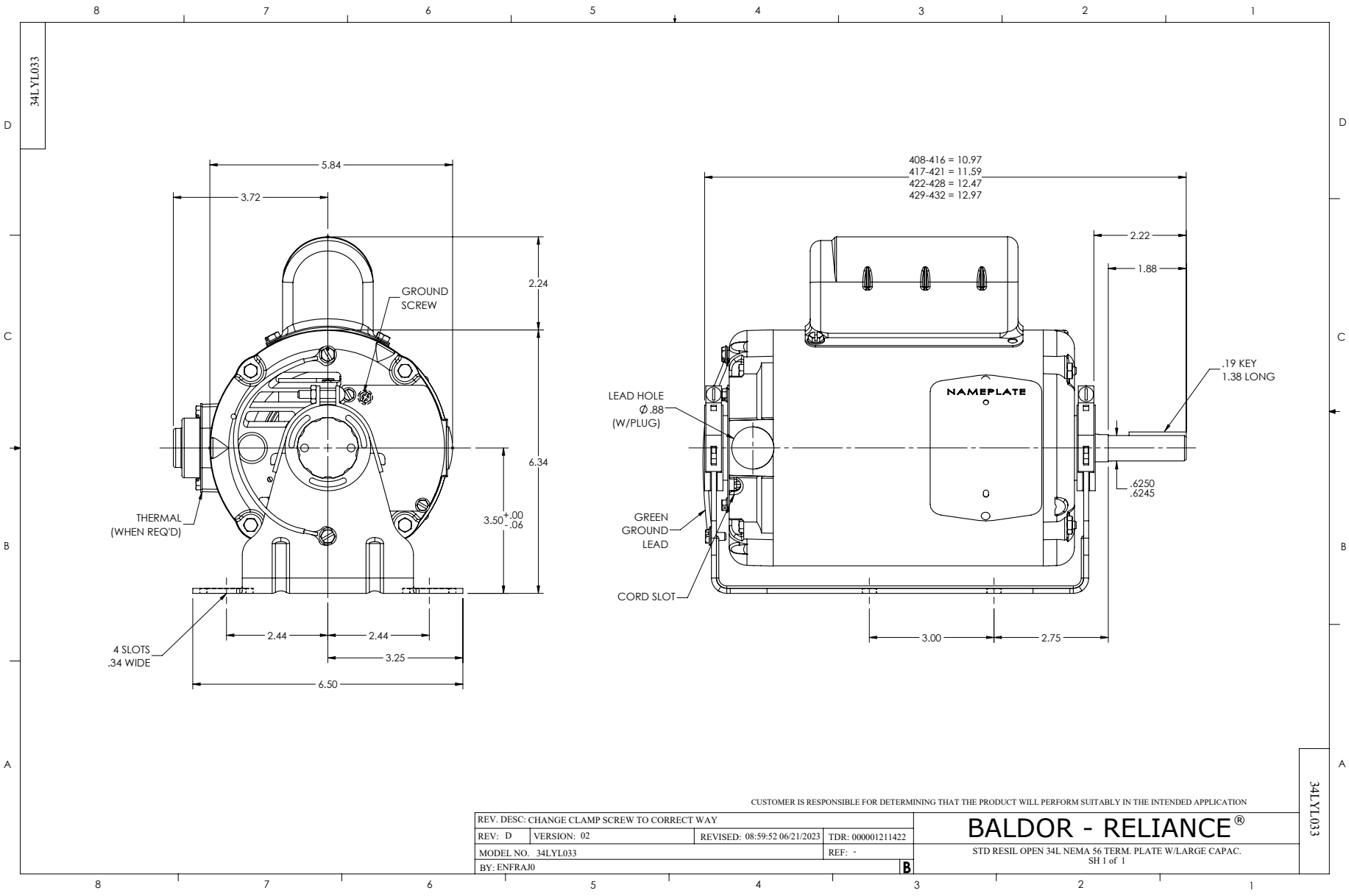
0.5 HP 1 PH 60 HZ 1725 RPM 277 V 3418L

Typical performance - not guaranteed values.

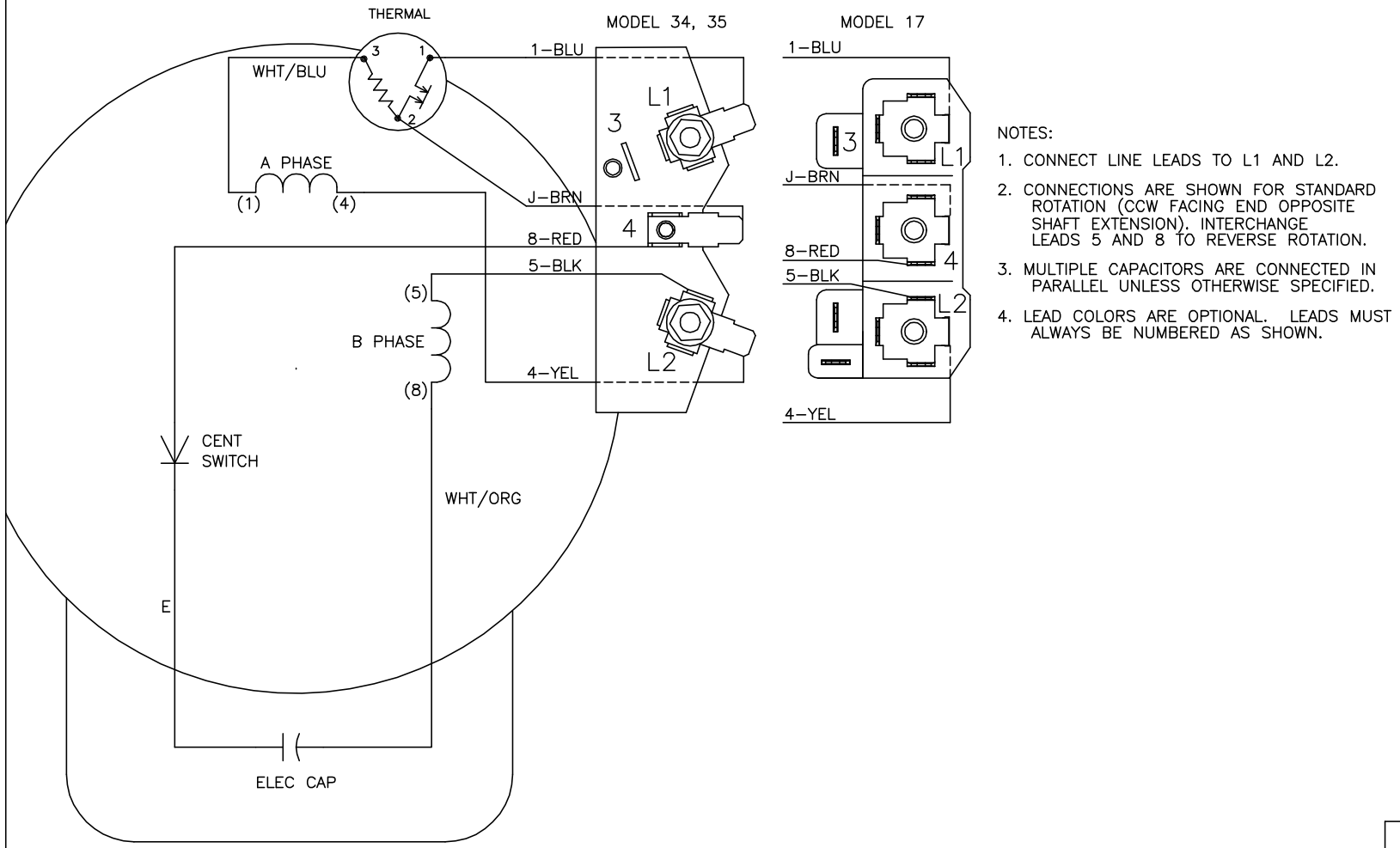
TORQUES(LB-FT): PO=4.35 PU=3.75 LR=5.03 LRA=15.5




5/12/2025 ACPERF, record # 6948


34LYL033
5.84
3.72
2.24
GROUND SCREW
6.34
3.50 +.00 -.06
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.44
2.44
3.25
6.50
408-416 = 10.97
417-421 = 11.59
422-428 = 12.47
429-432 = 12.97
2.22
1.88
.19 KEY
1.38 LONG
NAMEPLATE
LEAD HOLE Ø .88 (W/PLUG)
.6250
.6245
GREEN GROUND LEAD
CORD SLOT
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: D
VERSION: 02
REVISED: 08:59:52 06/21/2023
TDR: 000001211422
MODEL NO. 34LYL033
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD RESIL OPEN 34L NEMA 56 TERM. PLATE W/LARGE CAPAC.
SH 1 of 1
34LYL033

CD0085




NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0085

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION | | | BALDOR ELECTRIC Co. |
| REV. LTR: J | VERSION: 01 | TDR: 000000373039 | |
| CD0085 | FILE: \AAA\00007\109 | REVISED: 13:27:48 08/11/2005 | TYPE L, SV, REV, THERMAL, TERMINAL PLATE |
| | MTL: – | BY: ENJOEP0 | |