BALDOR • RELIANCE

# Customer information packet

## CFSWDL3509

1HP, 3450RPM, 1PH, 60HZ, 56C, 3524L, TEFC, F1, N
Class - None
Division - Not Applicable

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12/22/2025 10:53:16 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56C |
| **Frame Material** | Stainless 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** | 1.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 11.600 A @ 115.0 V |
| | 5.800 A @ 230.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 68.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 5.8 a |

## Part detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | 35E4732 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGL350 |
| **Layout** | 35LYE4732 |
| **Eff. date** | 08-30-2023 |
| **CD Diagram** | CD0648 |
| **Poles** | 02 |
| **Leads** | 4#16 A PH 15" lead length,3#18 B PH dbl dip & bake,0#0 0 CDY |
| **Proprietary** | False |
| **Created date** | 07-21-2017 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Finish** | UNPAINTED |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | @ AWG |
| | 4 @ 16 AWG, A PH |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3524L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 13.96 IN |
| **Power Factor** | 80 |
| **Product Family** | WD All SD Non-Encapsulated |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **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** | 3450 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** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP4427ALG30 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | CFSWDL3509 | | | **WT** | 41 | **LBS** | | | | | |
| **SPEC** | 35E4732L350G1 | | | **ENCL** | TEFC | | | | | | |
| **SER #** | | | | **CC** | | **IP** | 69 | | | | |
| **HP** | 1 | | | | | **NEMA NOM. EFF** | | | | 68 | |
| **VOLTS** | 115/230 | | | | | | | | | | |
| **AMPS** | 11.6/5.8 | | | | | **PF** | 80 | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **RPM** | 3450 | | | | | | | | | | |
| **FRAME** | 56C | **HZ** | 60 | **CODE** | K | **CLASS** | F | | | | |
| **SER.F.** | 1.25 | **SF AMP** | 13.8/6.9 | | | **PH** | 1 | **DES** | N | | |
| **DE** | 6205 | | **ODE** | 6205 | | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | | | |
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| | | | | | | | | | **QR** | | |
| **YR** | | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 67393
Typical performance - not guaranteed values

| **Winding:** 35WGL350-R001 | **Type:** 3524L | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|
| **Rated Output (HP)** | | 1 | **Full Load Torque** | 1.516 LB-FT |
| **Volts** | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | 11.6/5.8 | **Breakdown Torque** | 4.11 LB-FT |
| **R.P.M.** | | 3450 | **Pull-up Torque** | 3.53 LB-FT |
| **Hz** | 60 **Phase** | 1 | **Locked-rotor Torque** | 5.64 LB-FT |
| **NEMA Design Code** | N **KVA Code** | K | **Starting Current** | 39.5 A |
| **Service Factor (S.F.)** | | 1.25 | **No-load Current** | 3.55 A |
| **NEMA Nom. Eff.** | 68 **Power Factor** | 80 | **Line-line Res. @ 25ºC** | 2.097 Ω A Ph<br>1.1004 Ω B Ph |
| **Rating - Duty** | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 75°C |
| **S.F. Amps** | | 13.8/6.9 | **Temp. Rise @ S.F. Load** | 100°C |

**Load Characteristics 230 V, 60 Hz, 1 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 57 | 69 | 77 | 81 | 85 | 87 | 85 |
| **Efficiency** | 36.9 | 52.1 | 60.8 | 65.3 | 66.8 | 66.9 | 66.8 |
| **Speed** | 3564.8 | 3547.2 | 3529 | 3511.3 | 3485.8 | 3458.1 | 3486 |
| **Line amperes** | 3.96 | 4.63 | 5.38 | 6.19 | 7.28 | 8.44 | 7.28 |

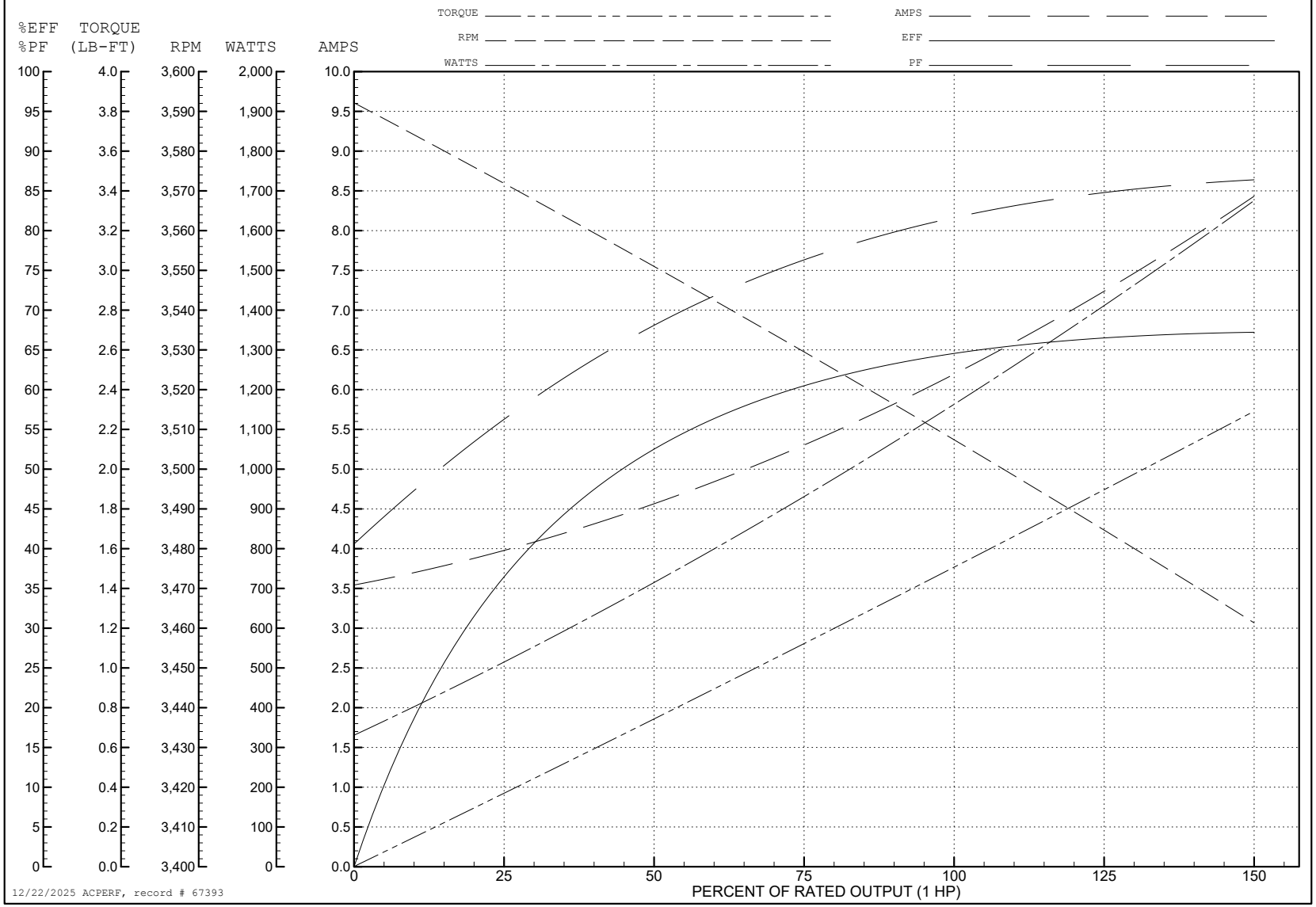
ABB Motors and Mechanical Inc.

WINDING # 35WGL350

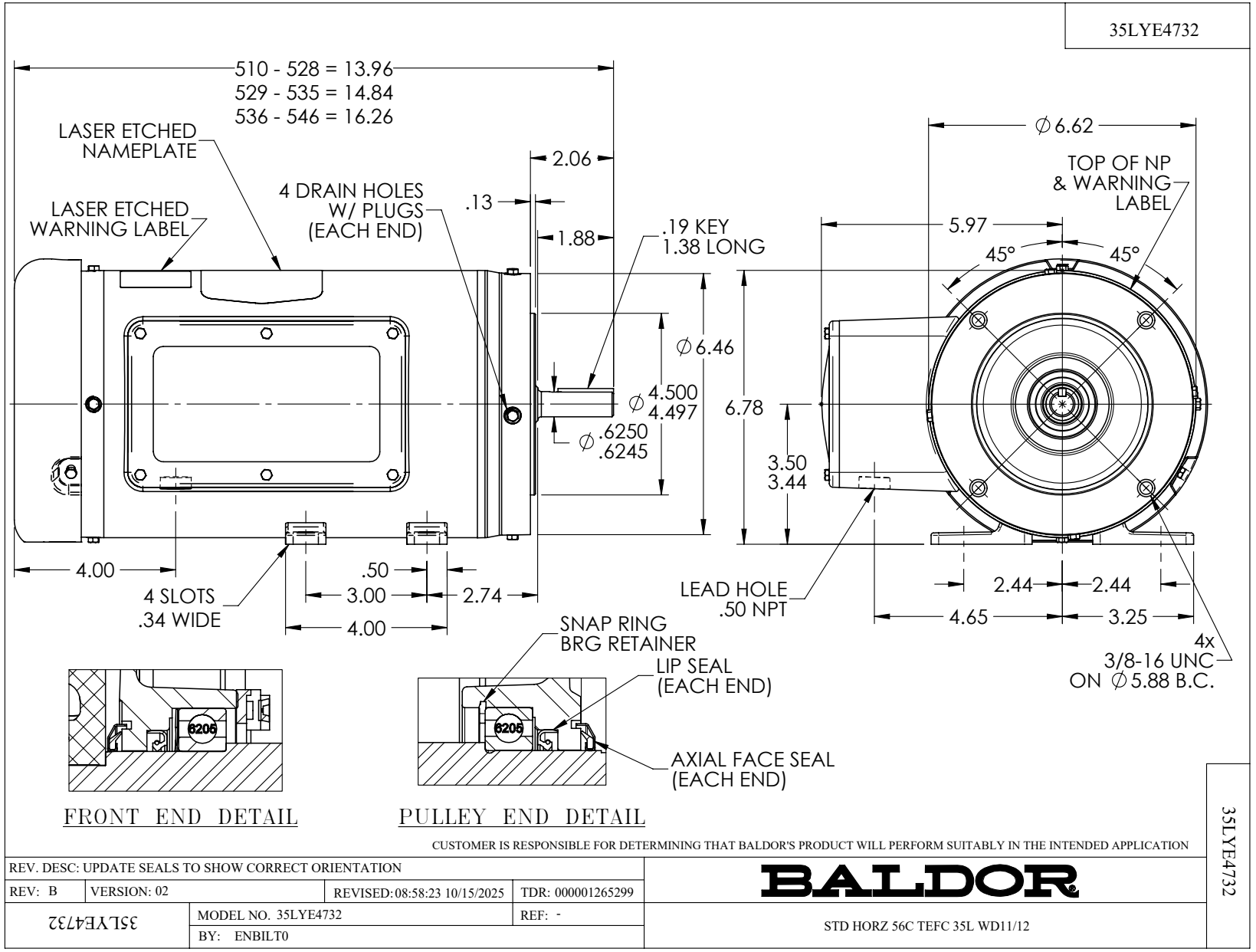
1 HP 1 PH 60 HZ 3450 RPM 230 V 3524L

Typical performance - not guaranteed values.

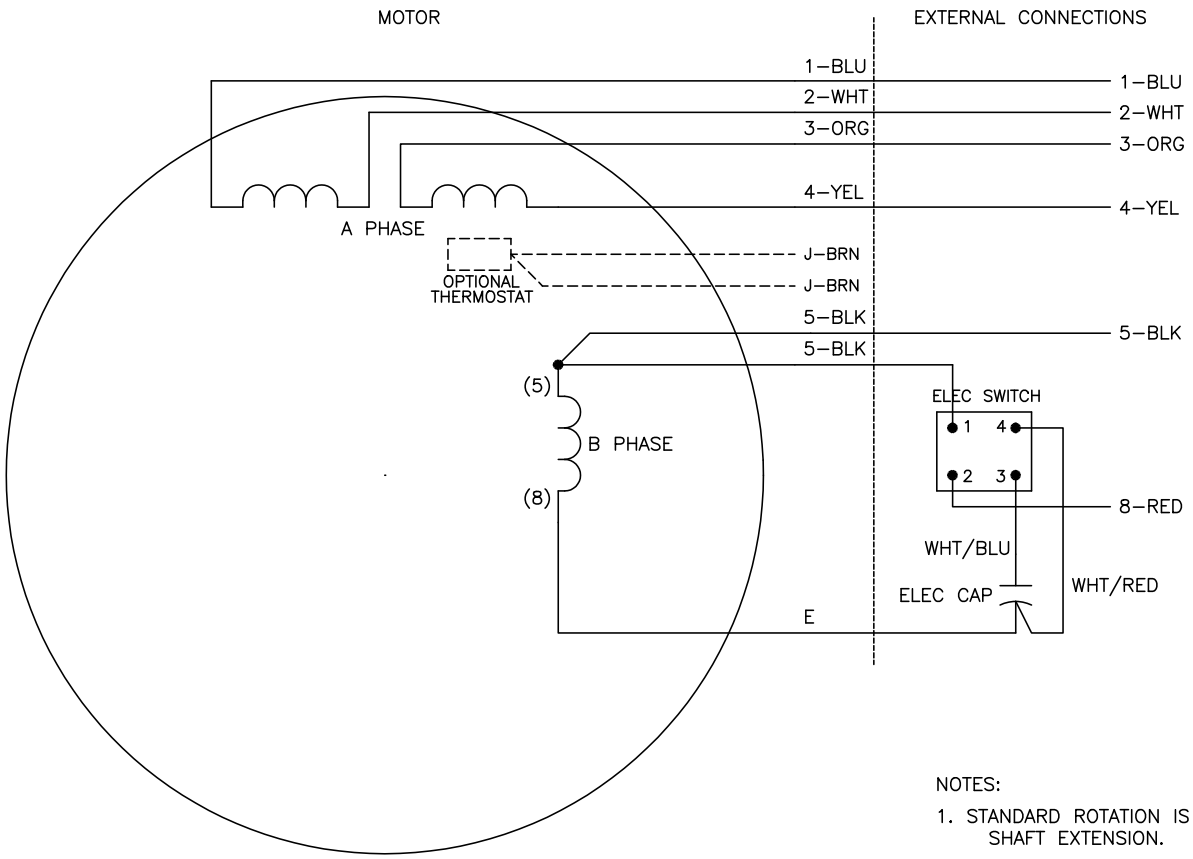
TORQUES(LB-FT): PO=4.11 PU=3.53 LR=5.64 LRA=39.5




12/22/2025 ACPERF, record # 67393


35LYE4732
510 - 528 = 13.96
529 - 535 = 14.84
536 - 546 = 16.26
LASER ETCHED NAMEPLATE
LASER ETCHED WARNING LABEL
4 DRAIN HOLES W/ PLUGS (EACH END)
2.06
.13
1.88
.19 KEY 1.38 LONG
∅6.46
∅4.500 4.497
∅.6250 .6245
4.00
4 SLOTS .34 WIDE
.50
3.00
2.74
4.00
∅6.62
TOP OF NP & WARNING LABEL
5.97
45°
45°
6.78
3.50 3.44
LEAD HOLE .50 NPT
2.44
2.44
4.65
3.25
4x 3/8-16 UNC ON ∅5.88 B.C.
SNAP RING BRG RETAINER
LIP SEAL (EACH END)
AXIAL FACE SEAL (EACH END)
6205
6205
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE SEALS TO SHOW CORRECT ORIENTATION
REV: B
VERSION: 02
REVISED: 08:58:23 10/15/2025
TDR: 000001265299
BALDOR
35LYE4732
MODEL NO. 35LYE4732
REF: -
BY: ENBILT0
STD HORZ 56C TEFC 35L WD11/12
35LYE4732

CD0648




| | LINE A | LINE B | JOIN |
|---|---|---|---|
| HIGH STD | 1 | 4,5 | 2,3,8 |
| HIGH OPP | 1 | 4,8 | 2,3,5 |
| LOW STD | 1,3,8 | 2,4,5 | – |
| LOW OPP | 1,3,5 | 2,4,8 | – |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. USE STEARNS ELECTRONIC START SWITCH OR EQUIVALENT.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0648

| | | | |
|---|---|---|---|
| REV. DESC: ADD OPTIONAL LEAD COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: B | BY: JLP | REVISED: 12/04/00 10:12 | TDR: 0226347 |
| CD0648 | | FILE: AAA00011416 | REF: – |
| | | MTL: – | TYPE L, DV, REV, 6 LEAD, SEPERATE CAP AND ELECTRONIC SWITCH |