ABB BALDOR RELIANCE

# Customer information packet

## AFL3525A

1.5HP, 3450RPM, 1PH, 60HZ, 56, 3528L, TEAO, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEAO |
| **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** | 1.500 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** | 16.600 A @ 115.0 V |
| | 8.300 A @ 230.0 V |
| | 8.600 A @ 208.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 70.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Terminal Panel |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | AL |
| **Type** | AC |
| **Mech. spec.** | 35T954 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WG0525 |
| **Layout** | 35LYT954 |
| **Eff. date** | 07-25-2024 |
| **CD Diagram** | CD0052 |
| **Poles** | 02 |
| **Leads** | 4#16 A&J,2#18 B PH,1#14 #1TH |
| **Proprietary** | False |
| **Created date** | 06-22-2007 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 8.3 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | H |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Terminal Panel Or Lead Hole |
| **Motor Lead Quantity/Wire Size** | 4 @ 16 AWG, A&J |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3528L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 12.68 IN |
| **Power Factor** | 82 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.00 |
| **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** | 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** | Automatic Thermal Overload |

| | |
|---|---|
| **Winding Thermal 1 Location** | SB |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1280L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | AFL3525A | | | | | | | | |
| **SPEC.** | 35T954-0525 | | | | | | | | |
| **HP** | 1.5 | | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | | |
| **AMP** | 16.6/8.3 | | | | | | | | |
| **RPM** | 3450 | | | | | | | | |
| **FRAME** | 56 | **HZ** | 60 | | **PH** | 1 | | | |
| **SER.F.** | 1.00 | **CODE** | H | **DES** | L | **CL** | B | | |
| **NEMA-NOM-EFF** | 70 | **PF** | 82 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | |
| **ENCL** | TEAO | **SN** | | | | | | | |

**AC Induction Motor Performance Data**
Record # 8080
Typical performance - not guaranteed values

| **Winding:** 35WG0525-R001 | **Type:** 3528L | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1.5 | **Full Load Torque** | 2.3 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 16.6/8.3 | **Breakdown Torque** | 5.6 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 4.2 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 5.5 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | H | **Starting Current** | 42 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 3.8 A |
| **NEMA Nom. Eff.** | 70 | **Power Factor** | 82 | **Line-line Res. @ 25ºC** | 1.26 Ω A Ph<br>1.23 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 70°C |

**Load Characteristics 230 V, 60 Hz, 1.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 52 | 69 | 78 | 84 | 87 | 88 |
| **Efficiency** | 54.9 | 67.7 | 71.6 | 72.4 | 71.2 | 68.4 |
| **Speed** | 3568 | 3543 | 3518 | 3485 | 3452 | 3409 |
| **Line amperes** | 4.4 | 5.4 | 6.6 | 8.3 | 9.9 | 12 |

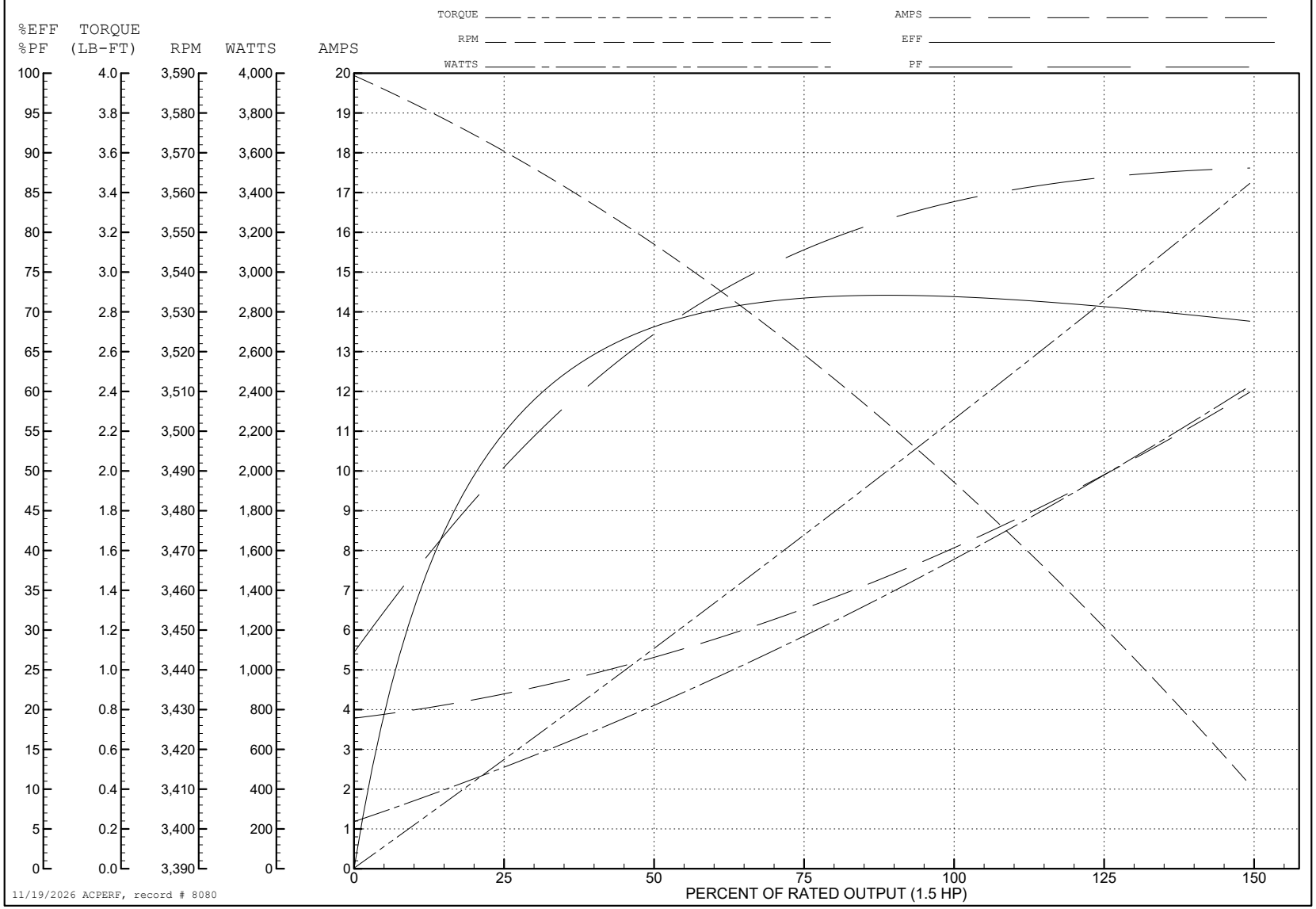
ABB Motors and Mechanical Inc.

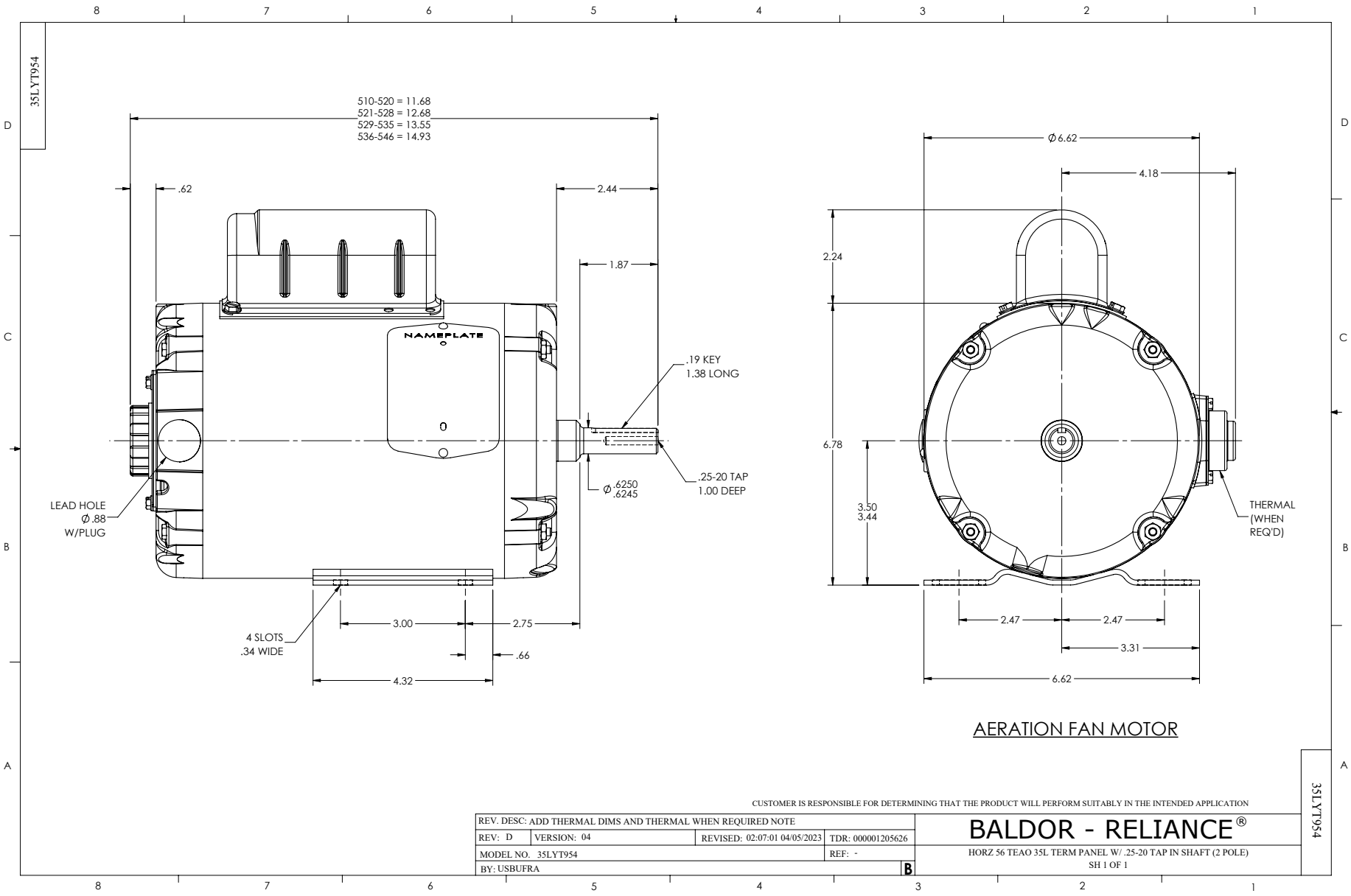
WINDING # 35WG0525

1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3528L

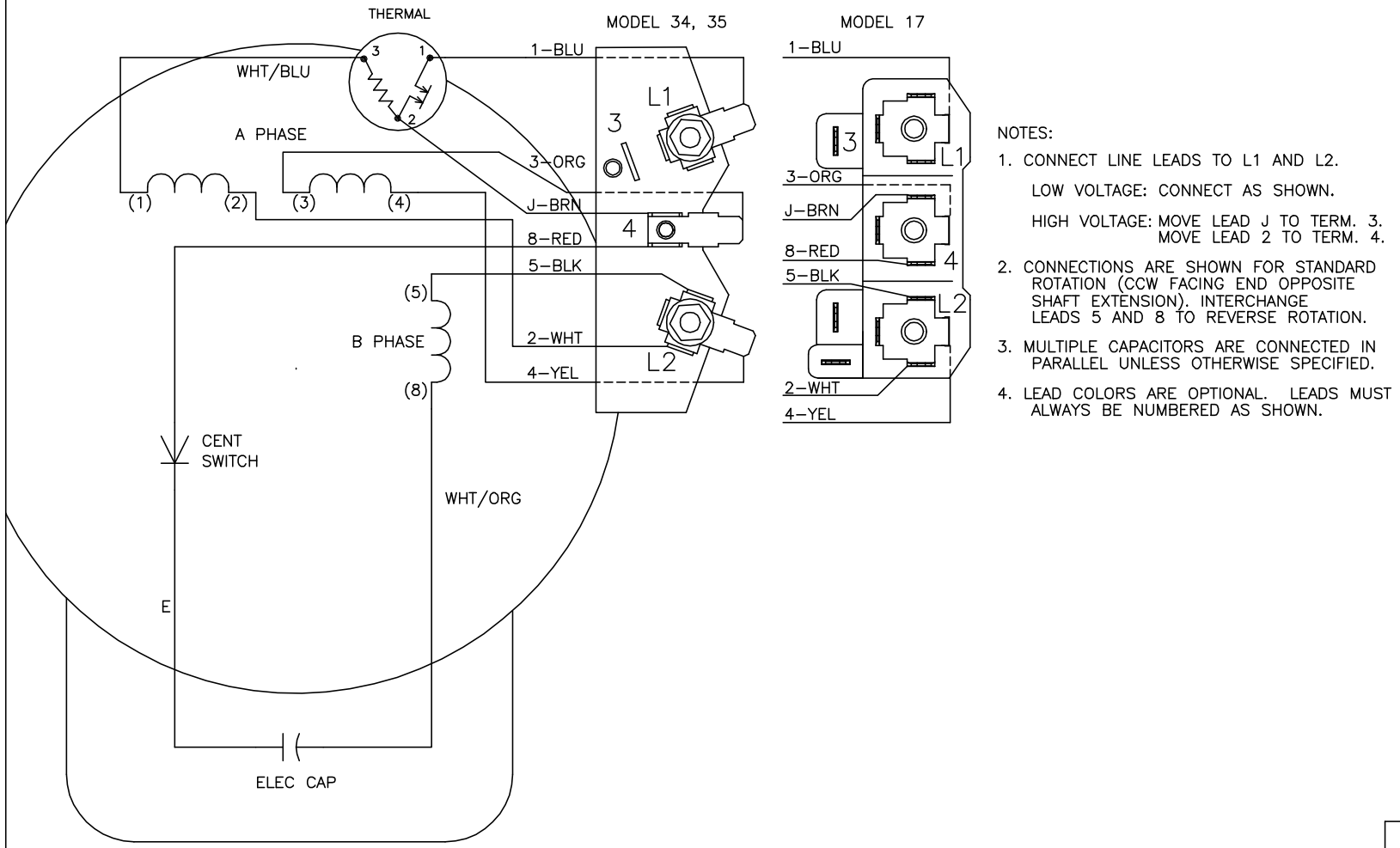
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=5.6 PU=4.2 LR=5.5 LRA=42




35LYT954
510-520 = 11.68
521-528 = 12.68
529-535 = 13.55
536-546 = 14.93
.62
2.44
1.87
NAMEPLATE
.19 KEY
1.38 LONG
.25-20 TAP
1.00 DEEP
Ø.6250
Ø.6245
LEAD HOLE
Ø.88
W/PLUG
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
Ø6.62
4.18
2.24
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
2.47
2.47
3.31
6.62
AERATION FAN MOTOR
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: D
VERSION: 04
REVISED: 02:07:01 04/05/2023
TDR: 000001205626
MODEL NO. 35LYT954
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 56 TEAO 35L TERM PANEL W/ .25-20 TAP IN SHAFT (2 POLE)
SH 1 OF 1
35LYT954

CD0052




NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3. MOVE LEAD 2 TO TERM. 4.
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.

CD0052

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION | | | BALDOR ELECTRIC Co. |
| REV. LTR: H | VERSION: 01 | TDR: 000000373039 | |
| CD0052 | FILE: \AAA\00007\100 | REVISED: 10:20:46 08/11/2005 | TYPE L, DV, REV, THERMAL, TERMINAL PLATE |
| | MTL: – | BY: ENJOEP0 | |