ABB BALDOR RELIANCE

# Customer information packet

## CJL1317A

2HP, 3450RPM, 1PH, 60HZ, 56J, 3528L, OPEN, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPEN |
| **Frame** | 56J |
| **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** | 2.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 115.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UR |
| **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** | 26.000 A @ 115.0 V |
| | 13.000 A @ 230.0 V |
| **Design Code** | L |
| **Drip Cover** | 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 |
| **High Voltage Full Load Amps** | 13.0 a |

## Part Detail

| | |
|---|---|
| **Revision** | AG |
| **Type** | AC |
| **Mech. spec.** | 35T951 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGW183 |
| **Layout** | 35LYT951 |
| **Eff. date** | 05-07-2024 |
| **CD Diagram** | CD0307 |
| **Poles** | 02 |
| **Leads** | 4#14 A&J,1#18 B PH,1#10 #1TH |
| **Proprietary** | False |
| **Created date** | 06-22-2007 |

| | |
|---|---|
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | G |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Terminal Panel Or Lead Hole |
| **Motor Lead Quantity/Wire Size** | 4 @ 14 AWG, A&J |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3528L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 13.25 IN |
| **Power Factor** | 69 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Ext Thread |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.20 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Fixed Opposite 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** | Do Not Use Eve-Not Valiid |
| **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.** | CJL1317A | | | | | | | |
| **SPEC.** | 35T951W183G1 | | | | | | | |
| **HP** | 2 | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | |
| **AMP** | 26/13 | | | | | | | |
| **RPM** | 3450 | | | | | | | |
| **FRAME** | 56J | **HZ** | 60 | **PH** | 1 | | | |
| **SER.F.** | 1.20 | **CODE** | G | **DES** | L | **CL** | B | |
| **NEMA-NOM-EFF** | 70 | **PF** | 69 | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | |
| **CC** | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | |
| | SFA 27.6/13.8 | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA111037 | SA 35T951W183G1 | 1.000 ea |
| RA102416 | RA 35T951W183G1 | 1.000 ea |
| EC1645A06SP | ELEC CAP, 645-774 MFD, 125V, 2.06D X 4. | 1.000 ea |
| WD3006A01 | RSS-2-103JT 2W 10K RES. METAL OXIDE 5% | 1.000 ea |
| RM1001A01 | GROMMET "MIDSTATES" | 1.000 ea |
| WD4100A01 | DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS | 1.000 ea |
| 11XW0832G06 | #8-32 X 3/8, TAPTITE II, HEX WSHR SLTD | 1.000 ea |
| 35EP3202A02SP | FR ENDPLATE, MACH | 1.000 ea |
| SP1033A01 | INSULATOR MODEL 35 TERM PANEL | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| 51XB1016A05 | 10-16X5/16HX WA SL SR TYB (F/S) | 2.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3402A00 | MASTER DE,205 BRG,OPEN,W/TIGHTSLEEVE | 1.000 ea |
| 35AD2000 | AIR BAFFLE - GALVANNEAL | 1.000 ea |
| 15XF0632A06 | 6-32 X 3/8 PHILL PAN HD TYPE F | 4.000 ea |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 ea |
| 35FH4500A02 | DRIP COVER, STAMPED (W/ PRIMER | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| 35CB4500 | TERMINAL BOX LID STAMPED | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| LB1009N | LABEL,ROTATION DIRECTION (ON ROLLS) | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| WD1000A15 | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 2.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| MG1050G01 | CELEROL MEDIUM CHARCOAL METALLIC GRAY | 0.017 ga |
| WD1000D90 | T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL | 1.000 ea |
| HA3100A15 | THRUBOLT 10-32 X 8.375 | 4.000 ea |
| 35CB4802A02SP | CAPACITOR COVER, STAMPED X | 1.000 ea |
| SP5066A01 | 35 TERM PANEL SWITCH W/E-BLK, 8-RED | 1.000 ea |
| LB1118 | LABEL,WARNING (ROLL LABEL) | 1.000 ea |
| LC0307 | 1PH, DV, FIX, W & W/O THERM, TERM PLATE, | 1.000 ea |

| | | |
|---|---|---|
| NP1257L | ALUM UL CC THERMAL REV MTG | 1.000 ea |
| 35PA1066 | PKG GRP, PRINT PK1008A07 | 1.000 ea |
| PK3083 | STYROFOAM PACKING CRADLE | 1.000 ea |
| PK3088 | MICROFOAM, 8"X"8 PERF. SHEETS | 1.000 ea |
| PE-0000011 | ZRTG PE ASSEMBLY | 1.000 ea |

**AC Induction Motor Performance Data**
Record # 9776
Typical performance - not guaranteed values

| **Winding:** 35WGW183-R001 | **Type:** 3528L | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 3 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 26/13 | **Breakdown Torque** | 10.4 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 5.9 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 7.1 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | G | **Starting Current** | 79 A |
| **Service Factor (S.F.)** | | | 1.2 | **No-load Current** | 9.3 A |
| **NEMA Nom. Eff.** | 70 | **Power Factor** | 69 | **Line-line Res. @ 25ºC** | 0.842 Ω A Ph<br>0.843 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 77°C |
| **S.F. Amps** | | | 27.6/13.8 | **Temp. Rise @ S.F. Load** | 87°C |

**Load Characteristics 230 V, 60 Hz, 2 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 38 | 53 | 65 | 71 | 80 | 84 | 78 |
| **Efficiency** | 46 | 60 | 66 | 70 | 68 | 67.5 | 68.4 |
| **Speed** | 3569 | 3547 | 3523 | 3498 | 3469 | 3436 | 3475 |
| **Line amperes** | 9.5 | 10.3 | 11.4 | 13 | 14.7 | 16.8 | 13.8 |

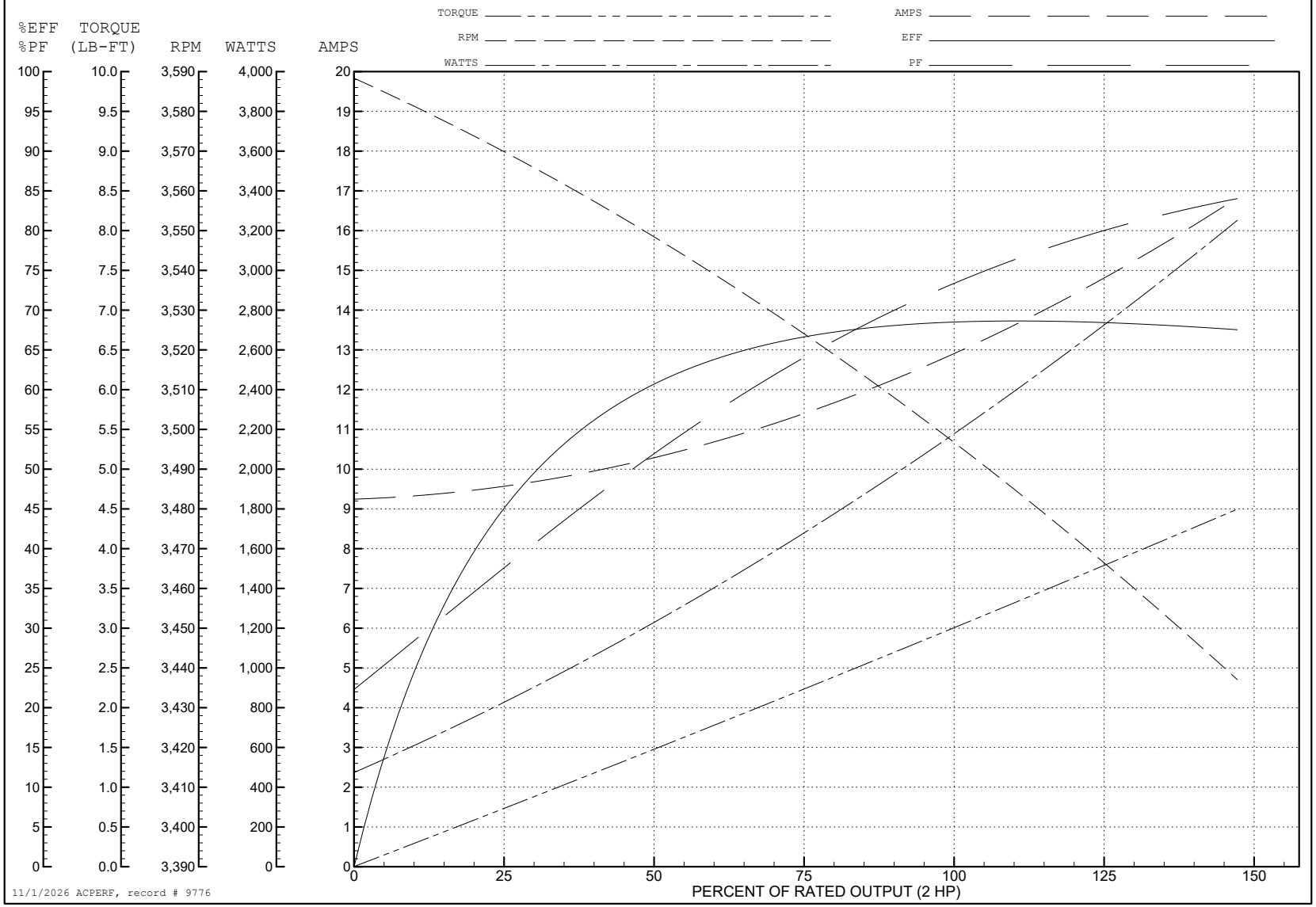
ABB Motors and Mechanical Inc.

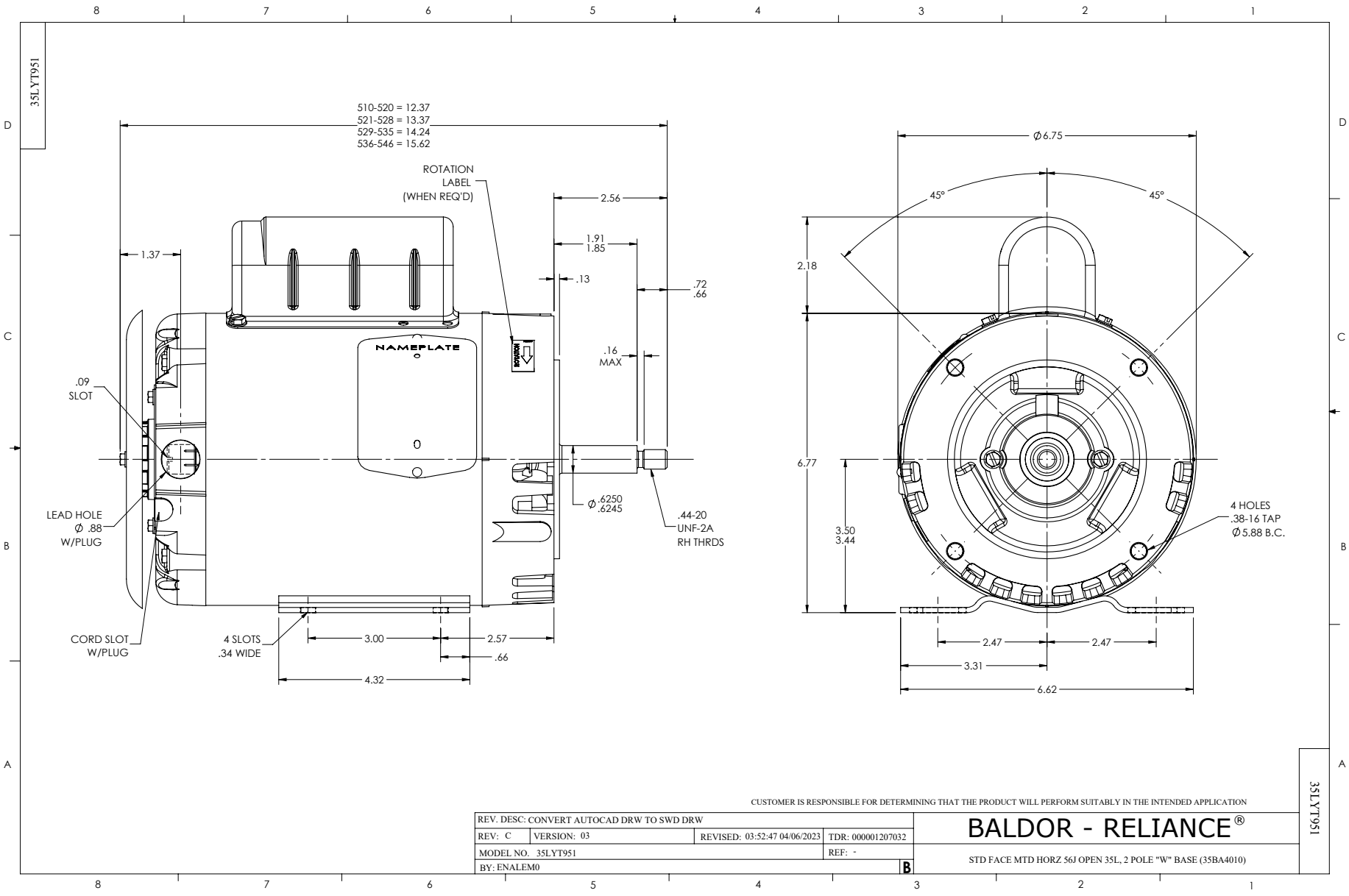
WINDING # 35WGW183

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

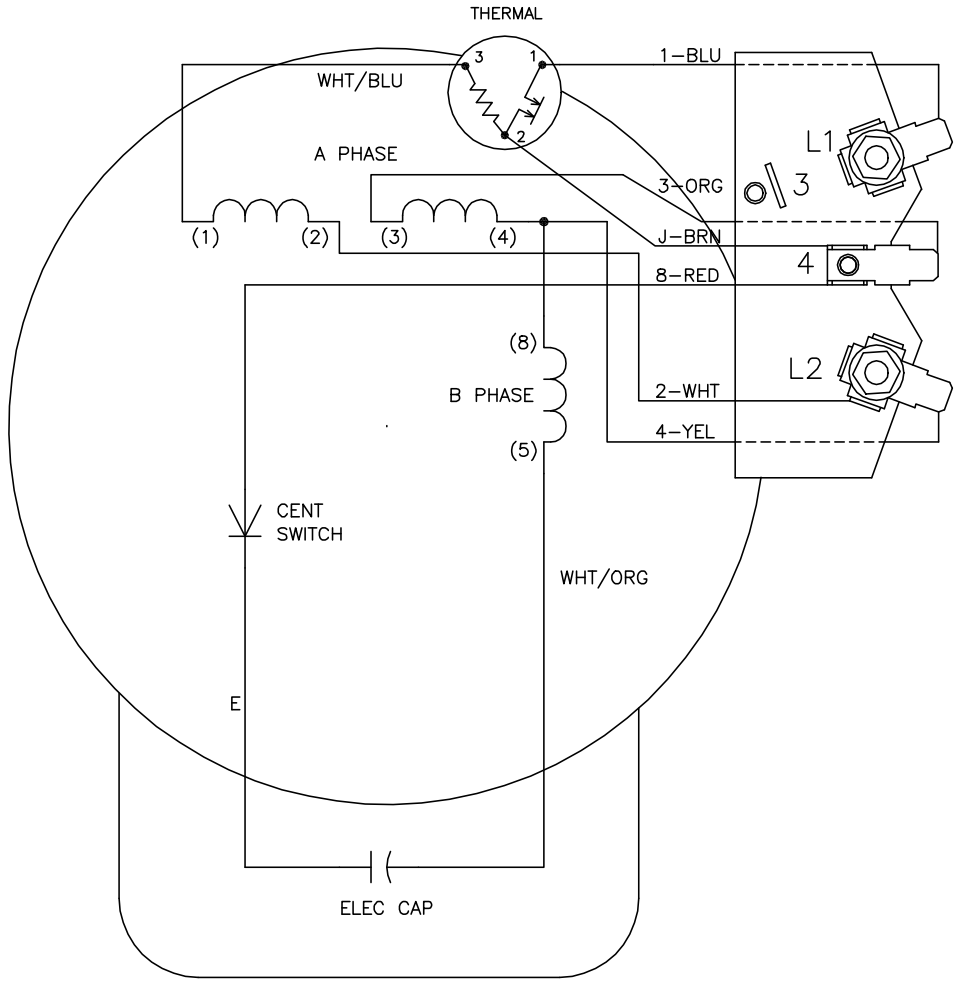
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=10.4 PU=5.9 LR=7.1 LRA=79




35LYT951
510-520 = 12.37
521-528 = 13.37
529-535 = 14.24
536-546 = 15.62
ROTATION LABEL (WHEN REQ'D)
2.56
1.91
1.85
1.37
.13
.72
.66
.16 MAX
NAMEPLATE
.09 SLOT
LEAD HOLE Ø .88 W/PLUG
CORD SLOT W/PLUG
4 SLOTS .34 WIDE
3.00
2.57
.66
4.32
Ø .6250
.6245
.44-20 UNF-2A RH THRDS
Ø6.75
45°
45°
2.18
6.77
3.50
3.44
4 HOLES .38-16 TAP Ø5.88 B.C.
2.47
2.47
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: C
VERSION: 03
REVISED: 03:52:47 04/06/2023
TDR: 000001207032
MODEL NO. 35LYT951
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD FACE MTD HORZ 56J OPEN 35L, 2 POLE "W" BASE (35BA4010)
35LYT951

CD0307




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 OPPOSITE STANDARD ROTATION (CW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE 5 AND 8 INTERNALLY FOR STANDARD ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION | | | BALDOR ELECTRIC Co. |
| REV. LTR: F | VERSION: 01 | TDR: 000000373039 | |
| CD0307 | FILE: \AAA\00007\308 | REVISED: 11:45:00 08/11/2005 | TYPE L, DV, FIX ROT, THERMAL, TERMINAL PLATE (OPP STD) |
| | MTL: – | BY: ENJOEP0 | |

CD0307