ABB BALDOR RELIANCE

# Customer information packet

XL050722A

0.75HP, 3500RPM, 1PH, 60HZ, 56, 3524L, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 56 |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP D; CLII GP F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Cap Start, Induction Run |
| **Output @ Frequency** | .750 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** | CSA |
| | UL |
| **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** | 4.600 A @ 230.0 V |
| | 9.300 A @ 115.0 V |
| **Design Code** | - |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 66.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T4 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 4.6 a |
| **Insulation Class** | B |

## Part Detail

| | |
|---|---|
| **Revision** | G |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WG0498 |
| **Layout** | 35LYE353 |
| **Eff. date** | 05-01-2024 |
| **CD Diagram** | CD0008 |
| **Poles** | 02 |
| **Leads** | 6#18,1#14 #4TH |
| **Proprietary** | False |
| **Created date** | 04-30-2021 |

| | |
|---|---|
| **Inverter Code** | Not Inverter |
| **IP Rating** | NONE |
| **KVA Code** | N |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3524L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 15.15 IN |
| **Power Factor** | 77 |
| **Product Family** | General Purpose |
| **Pulley Face Code** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 3500 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | Automatic Thermal Overload |
| **Winding Thermal 1 Location** | EP |
| **Winding Thermal 2** | None |

**Nameplate**

| NP0016XPSL | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NO.** | | | **CC** | | | | |
| **SER. #** | | | | | | | |
| **SPEC** | 35-0000-1155 | | | | | | |
| **CAT.NO.** | XL050722A | | | | | | |
| **H.P.** | .75 | | **T. CODE** | | T4 | | |
| **VOLTS** | 115/230 | | | | | | |
| **AMPS** | 9.3/4.6 | | | | | | |
| **R.P.M.** | 3500 35WG0498 | | | | | | |
| **HZ** | 60 | **PH** | 1 | **CLASS** | B | | |
| **SER.F.** | 1.00 | **DES** | - | **CODE** | N | | |
| **RATING** | 40C AMB-CONT | | | | | | |
| **FRAME** | 56 | | | **NEMA NOM. EFF** | 66 | | |
| | | **PF** | 77 | | | | |
| **BLANK** | NEMA MG-1 PART 5, IP54 | | | | | | |

**AC Induction Motor Performance Data**
Record # 88186
Typical performance - not guaranteed values

**Winding:** 35WG0498 **Type:** 3524L **Enclosure:** XPFC

| Nameplate Data | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 0.75 |
| **Volts** | | | 115/230 |
| **Full Load Amps** | | | 9.3/4.6 |
| **R.P.M.** | | | 3500 |
| **Hz** | 60 | **Phase** | 1 |
| **NEMA Design Code** | - | **KVA Code** | N |
| **Service Factor (S.F.)** | | | 1 |
| **NEMA Nom. Eff.** | 66 | **Power Factor** | 77 |
| **Rating - Duty** | | | 40C AMB-CONT |

| 115 V, 60 Hz: Low Voltage Connection | |
|---|---|
| **Full Load Torque** | 1.12 LB-FT |
| **Start Configuration** | Unknown |
| **Breakdown Torque** | 3.63 LB-FT |
| **Pull-up Torque** | 3.18 LB-FT |
| **Locked-rotor Torque** | 5 LB-FT |
| **Starting Current** | 64.2 A |
| **No-load Current** | 5.62 A |
| **Line-line Res. @ 25ºC** | 0.62 Ω A Ph<br>1.76 Ω B Ph |
| **Temp. Rise @ Rated Load** | 39°C |
| **Locked-rotor Power Factor** | 93.9 |
| **Rotor inertia** | 0.0664 lb-ft² |

**Load Characteristics 115 V, 60 Hz, 0.75 HP**

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 |
|---|---|---|---|---|---|---|
| **Power Factor** | 49 | 63 | 72 | 79 | 83 | 85 |
| **Efficiency** | 40.9 | 56.5 | 64.3 | 68.3 | 70.4 | 71.1 |
| **Speed** | 3570 | 3552 | 3533 | 3513 | 3491 | 3466 |
| **Line amperes** | 6.11 | 6.87 | 7.88 | 9.08 | 10.5 | 12 |

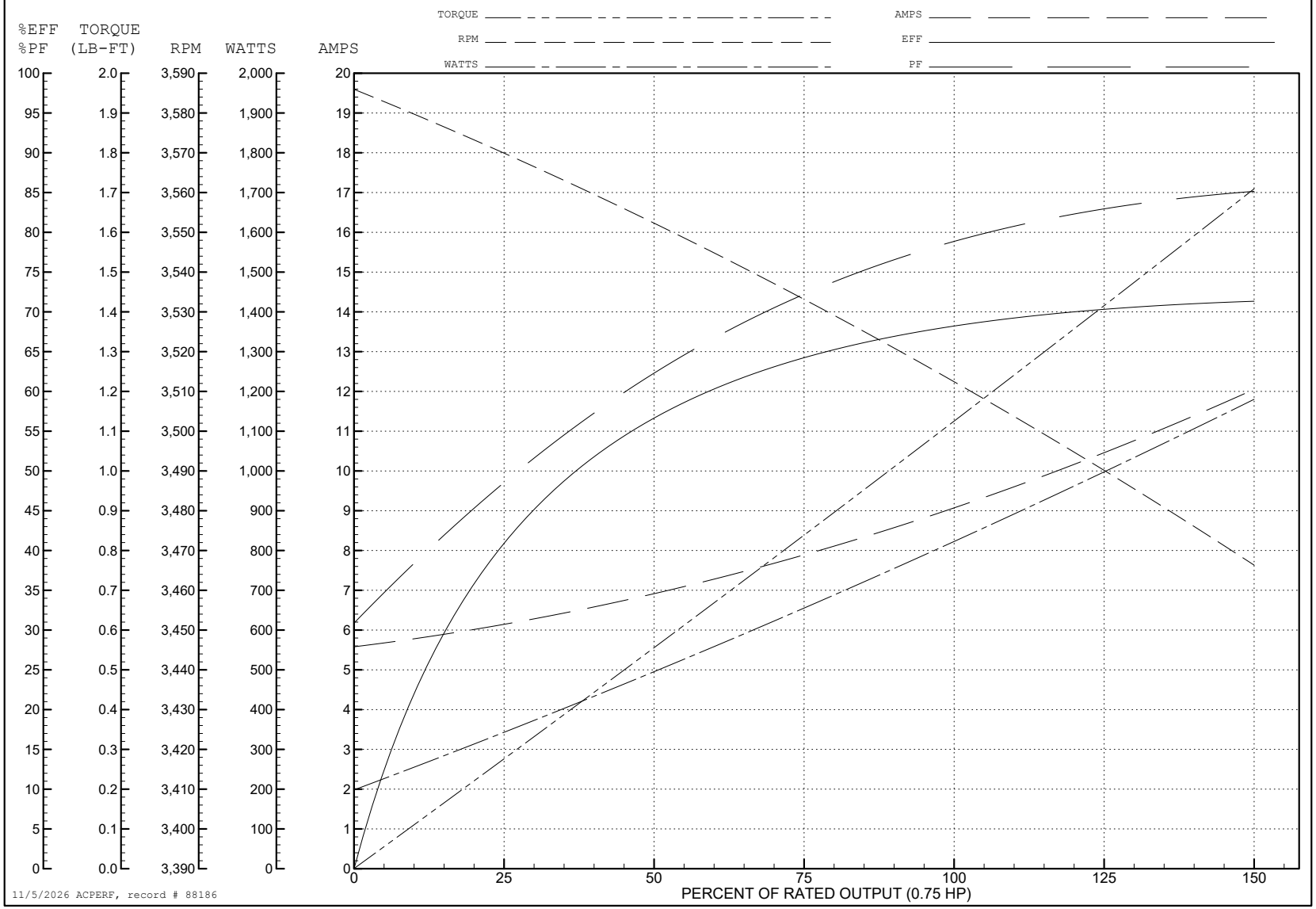
ABB Motors and Mechanical Inc.

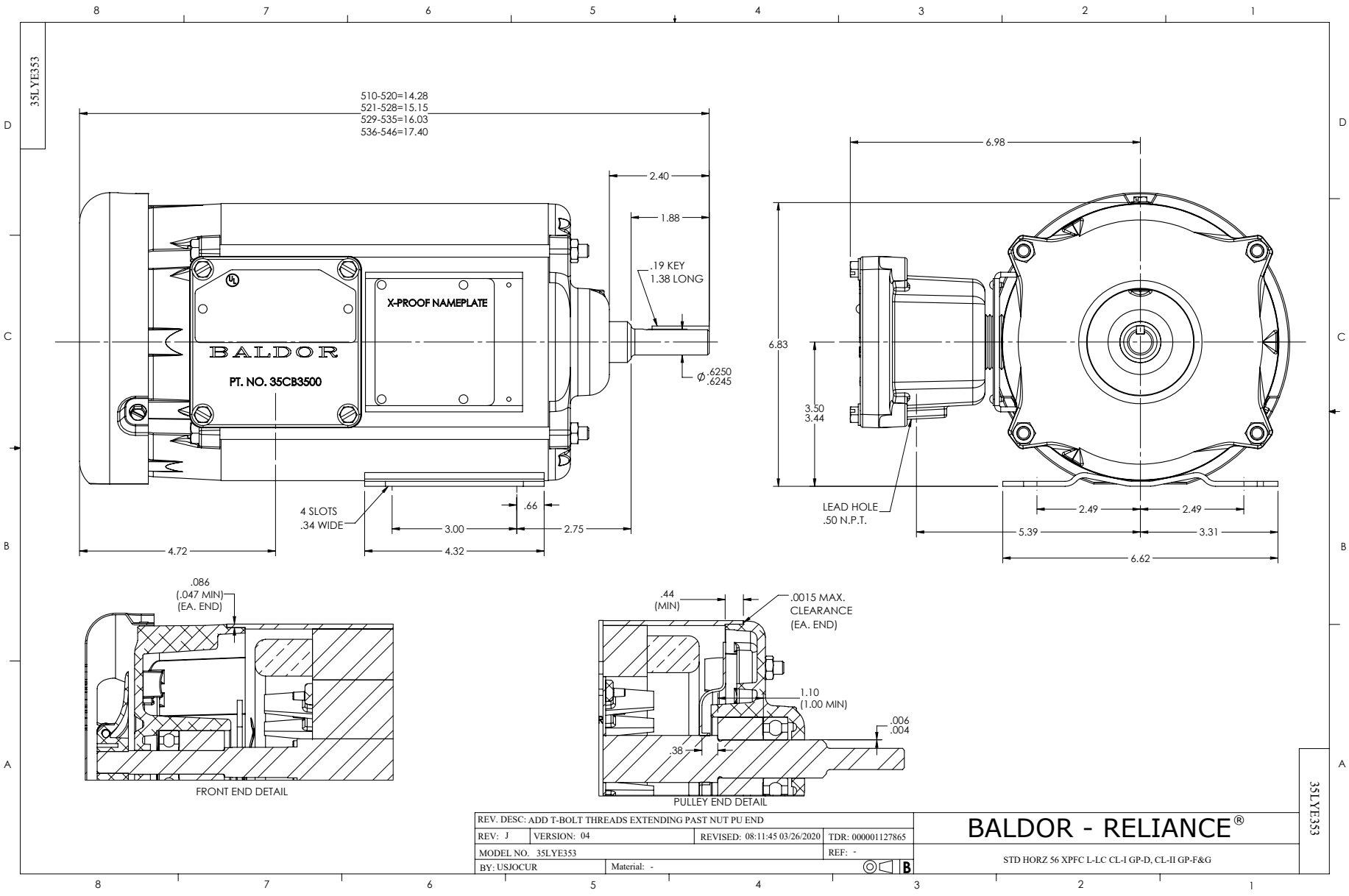
WINDING # 35WG0498

0.75 HP 1 PH 60 HZ 3500 RPM 115 V 3524L

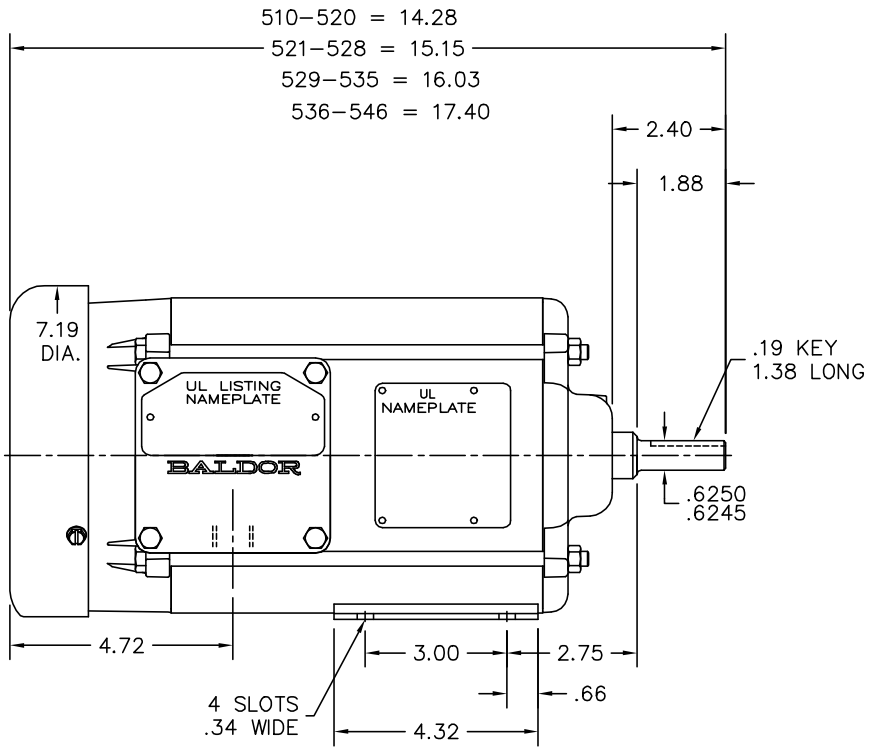
Typical performance - not guaranteed values.

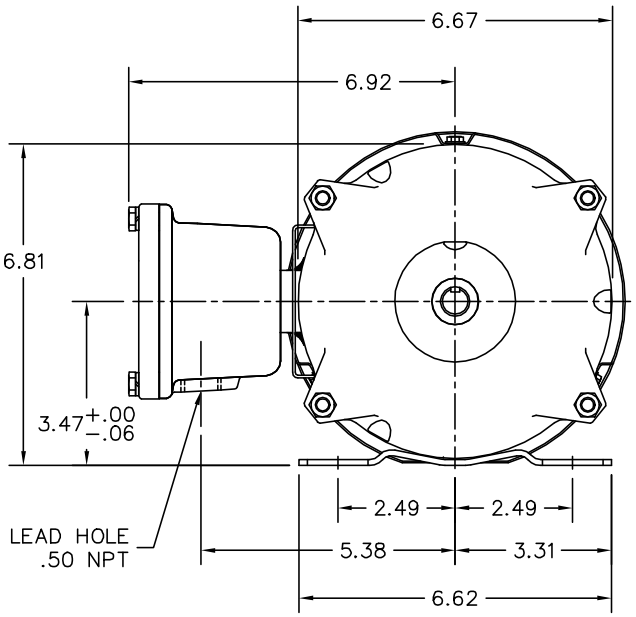
TORQUES(LB-FT): PO=3.63 PU=3.18 LR=5 LRA=64.2




35LYE353
510-520=14.28
521-528=15.15
529-535=16.03
536-546=17.40
2.40
1.88
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .6250
.6245
4 SLOTS
.34 WIDE
.66
3.00
2.75
4.72
4.32
6.98
6.83
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.39
3.31
6.62
.086
(.047 MIN)
(EA. END)
FRONT END DETAIL
.44
(MIN)
.0015 MAX.
CLEARANCE
(EA. END)
1.10
(1.00 MIN)
.006
.004
.38
PULLEY END DETAIL
REV. DESC: ADD T-BOLT THREADS EXTENDING PAST NUT PU END
REV: J
VERSION: 04
REVISED: 08:11:45 03/26/2020
TDR: 000001127865
MODEL NO. 35LYE353
REF: -
BY: USJOCUR
Material: -
B
BALDOR - RELIANCE®
STD HORZ 56 XPFC L-LC CL-I GP-D, CL-II GP-F&G
35LYE353

35LYG792




35LYG792

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

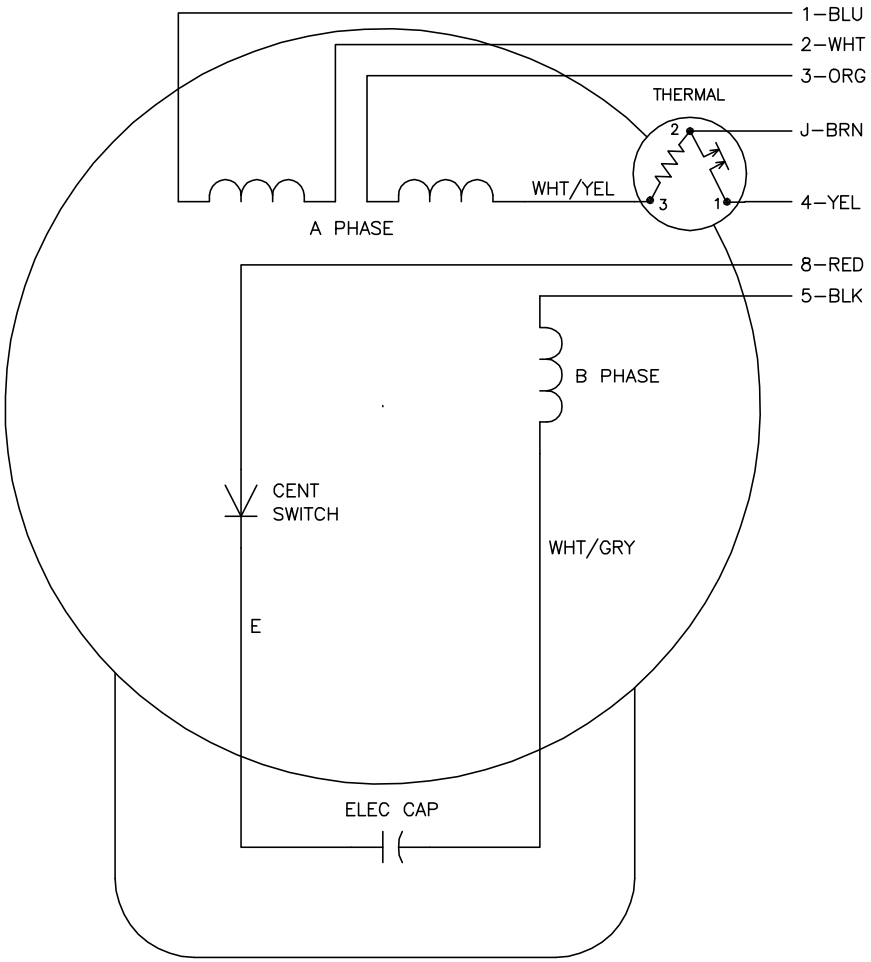
| | | |
|---|---|---|
| REV. DESC: UPDATE LAYOUT | | |
| REV. LTR: E | VERSION: 01 | TDR: 000000842537 |
| FILE: \AAA\00033\367 | REVISED: 09:14:05 03/14/2014 | BY: ENBENBO |
| MTL: – | | |

BALDOR

STD HOR 56 XPFC X35L CL I GP D W/T'STAT

SH 1 of 1

CD0008




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

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0008

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0008A02 | | | BALDOR ELECTRIC Co. |
| REV. LTR: F | VERSION: 01 | TDR: 000000360649 | |
| CD0008 | FILE: \AAA\00007\408 | REVISED: 10:56:54 04/18/2005 | TYPE L, DV, REV, THERMAL, 7 LEADS |
| | MTL: – | BY: ENJOEP0 | |