ABB BALDOR RELIANCE

# Customer information packet

## VXL050742A

.75HP, 1760RPM, 1PH, 60HZ, 56C, 3528L, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 56C |
| **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** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | UL |
| | CSA |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 10.400 A @ 115.0 V |
| | 5.200 A @ 230.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 66.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T4 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 5.2 a |

## Part Detail

| | |
|---|---|
| **Revision** | B |
| **Type** | AC |
| **Mech. spec.** | 35E371 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGF218 |
| **Layout** | 35LYE371 |
| **Eff. date** | 04-30-2026 |
| **CD Diagram** | CD0008 |
| **Poles** | 04 |
| **Leads** | 6#18,1#14 #4TH |
| **Proprietary** | False |
| **Created date** | 11-14-2024 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | X3528L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 15.15 IN |
| **Power Factor** | 68 |
| **Product Family** | Hazardous Location Motor |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1760 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** | EP |
| **Winding Thermal 2** | None |

**Nameplate**

| NP0016XPSL | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NO.** | | | **CC** | | | | |
| **SER. #** | | | | | | | |
| **SPEC** | 35E371F218G1 | | | | | | |
| **CAT.NO.** | VXL050742A | | | | | | |
| **H.P.** | .75 | | **T. CODE** | T4 | | | |
| **VOLTS** | 115/230 | | | | | | |
| **AMPS** | 10.4/5.2 | | | | | | |
| **R.P.M.** | 1760 | | | | | | |
| **HZ** | 60 | **PH** | 1 | **CLASS** | F | | |
| **SER.F.** | 1.00 | **DES** | N | **CODE** | M | | |
| **RATING** | 40C AMB-CONT | | | | | | |
| **FRAME** | 56C | | | **NEMA NOM. EFF** | 66 | | |
| | | **PF** | 68 | | | | |
| **BLANK** | NEMA MG-1 PART 5, IP54 | | | | | | |

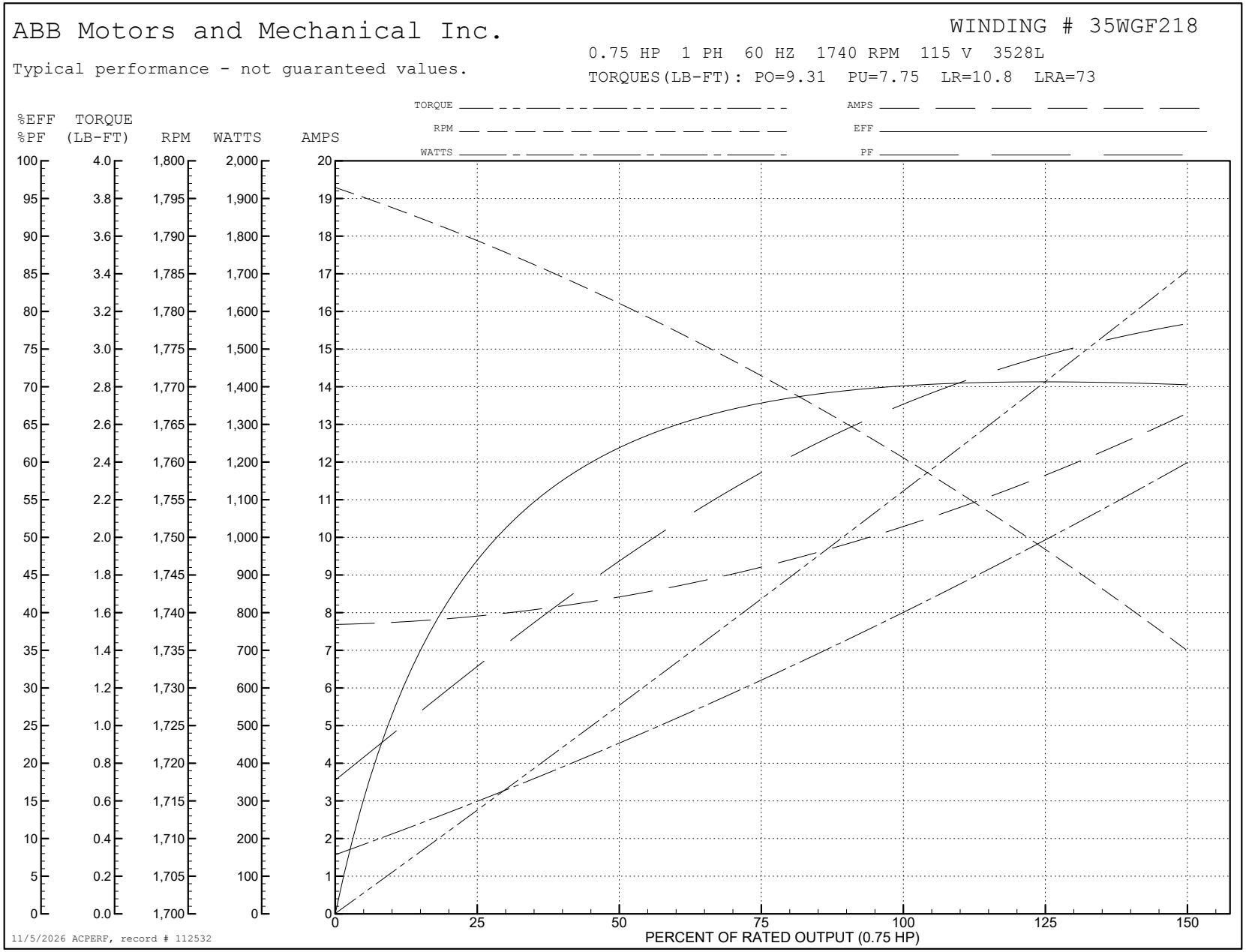
**AC Induction Motor Performance Data**
Record # 112532
Typical performance - not guaranteed values

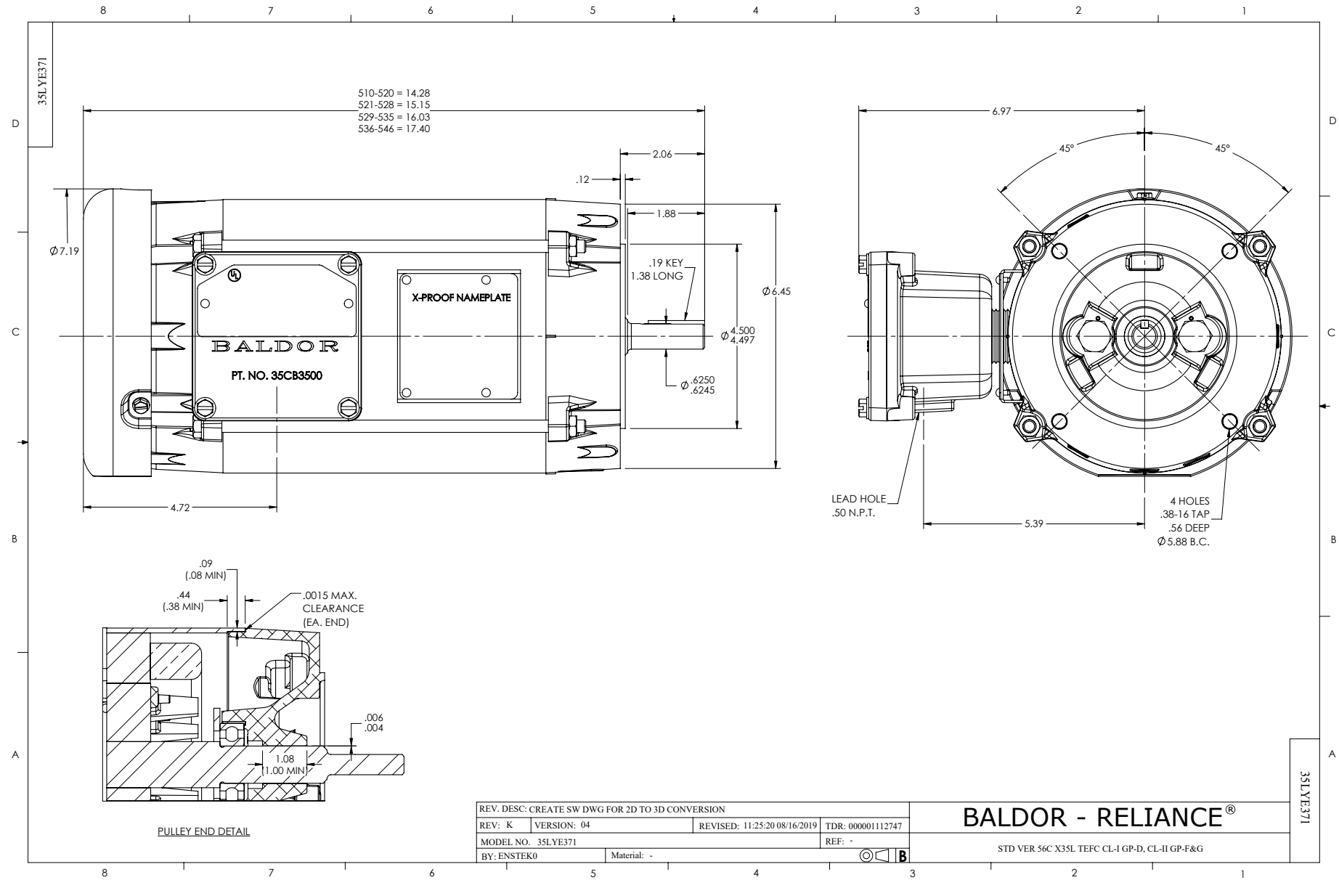
| **Winding:** 35WGF218-R001 | **Type:** 3528L | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **115 V, 60 Hz: Low Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .75 | **Full Load Torque** | 2.236 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 10.4/5.2 | **Breakdown Torque** | 9.31 LB-FT |
| **R.P.M.** | | | 1740 | **Pull-up Torque** | 7.75 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 10.8 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | N | **Starting Current** | 73 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 7.7 A |
| **NEMA Nom. Eff.** | 66 | **Power Factor** | 69 | **Line-line Res. @ 25ºC** | 0.75553 Ω A Ph<br>1.79 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 52°C |

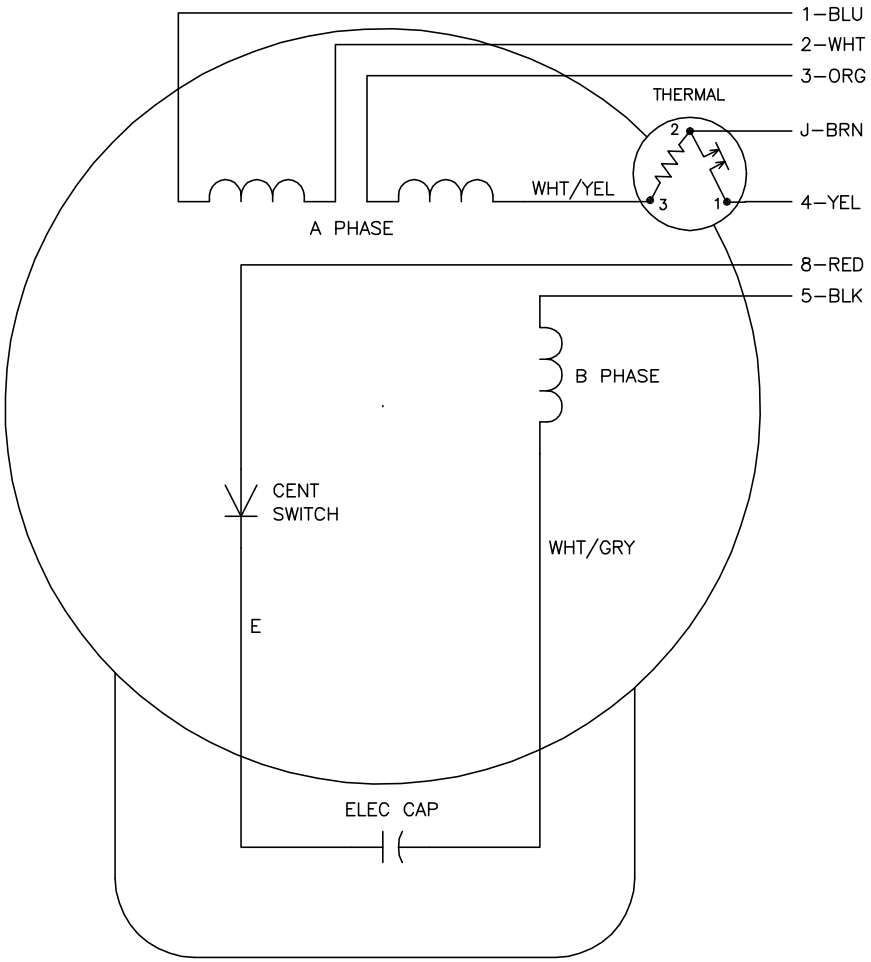
**Load Characteristics 115 V, 60 Hz, 0.75 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 34 | 48 | 59 | 68 | 74 | 80 |
| **Efficiency** | 46.1 | 61.4 | 67.6 | 70.4 | 70.9 | 70 |
| **Speed** | 1788.9 | 1780.5 | 1771.8 | 1761 | 1749.6 | 1734.2 |
| **Line amperes** | 7.89 | 8.38 | 9.21 | 10.3 | 11.6 | 13.3 |


ABB Motors and Mechanical Inc.
WINDING # 35WGF218
0.75 HP 1 PH 60 HZ 1740 RPM 115 V 3528L
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=9.31 PU=7.75 LR=10.8 LRA=73
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/5/2026 ACPERF, record # 112532


35LYE371
510-520 = 14.28
521-528 = 15.15
529-535 = 16.03
536-546 = 17.40
2.06
.12
1.88
Ø7.19
.19 KEY
1.38 LONG
Ø6.45
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø.6250
.6245
4.72
6.97
45°
45°
LEAD HOLE
.50 N.P.T.
5.39
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
.09
(.08 MIN)
.44
(.38 MIN)
.0015 MAX.
CLEARANCE
(EA. END)
.006
.004
1.08
(1.00 MIN)
PULLEY END DETAIL
REV. DESC: CREATE SW DWG FOR 2D TO 3D CONVERSION
REV: K
VERSION: 04
REVISED: 11:25:20 08/16/2019
TDR: 000001112747
MODEL NO. 35LYE371
REF: -
BY: ENSTEK0
Material: -
BALDOR - RELIANCE®
STD VER 56C X35L TEFC CL-I GP-D, CL-II GP-F&G
35LYE371

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 | |