ABB BALDOR RELIANCE

# Customer information packet

## L1318TM

1HP, 1740RPM, 1PH, 60HZ, 143T, 3524L, OPEN, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPEN |
| **Frame** | 143T |
| **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** | 1.000 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** | C UR US |
| **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** | 12.800 A @ 115.0 V |
| | 6.400 A @ 230.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 68.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 6.4 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |

## Part Detail

| | |
|---|---|
| **Revision** | G |
| **Type** | AC |
| **Mech. spec.** | 35DD001 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGG390 |
| **Layout** | 35LYDD001 |
| **Eff. date** | 09-05-2024 |
| **CD Diagram** | CD0008 |
| **Poles** | 04 |
| **Leads** | 6#18,1#14 #4TH |
| **Proprietary** | False |
| **Created date** | 12-19-2022 |

| | |
|---|---|
| **IP Rating** | NONE |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3524L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 12.13 IN |
| **Power Factor** | 75 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1740 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Do Not Use |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | Manual Thermal Overload |
| **Winding Thermal 1 Location** | SB |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1257L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | L1318TM | | | | | | | | | |
| **SPEC.** | 35DD001G390 | | | | | | | | | |
| **HP** | 1 | | | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | | | |
| **AMP** | 12.8/6.4 | | | | | | | | | |
| **RPM** | 1740 | | | | | | | | | |
| **FRAME** | 143T | | **HZ** | 60 | | **PH** | 1 | | | |
| **SER.F.** | 1.15 | **CODE** | K | **DES** | L | **CL** | F | | | |
| **NEMA-NOM-EFF** | 68 | **PF** | 75 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | | | | | | | | | | |
| **DE** | 6205 | **ODE** | 6203 | | | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 35-8764 | C FACE KIT | A8 |
| 35EP1604A01SP | D-FLANGE KIT | |

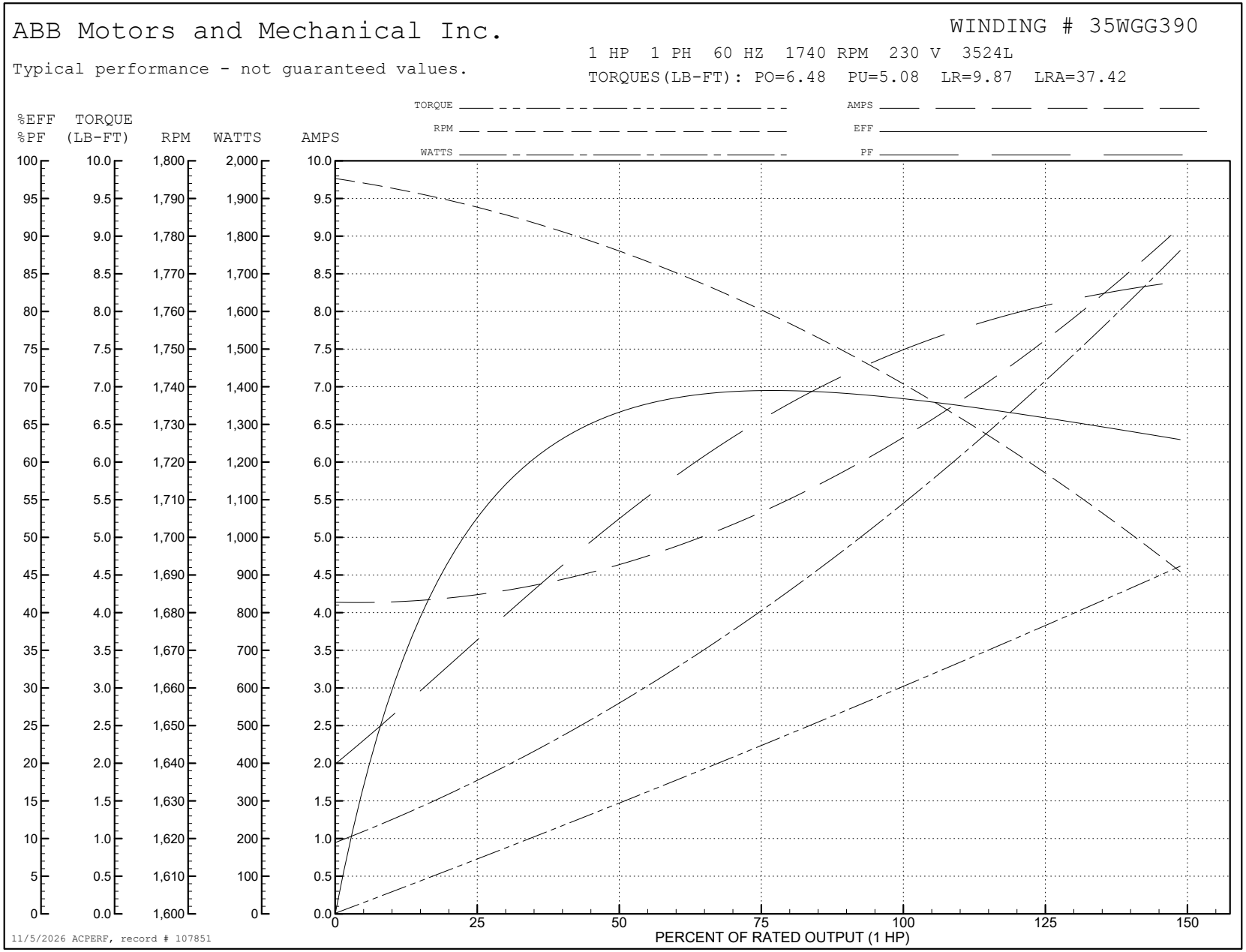
**AC Induction Motor Performance Data**
Record # 107851
Typical performance - not guaranteed values

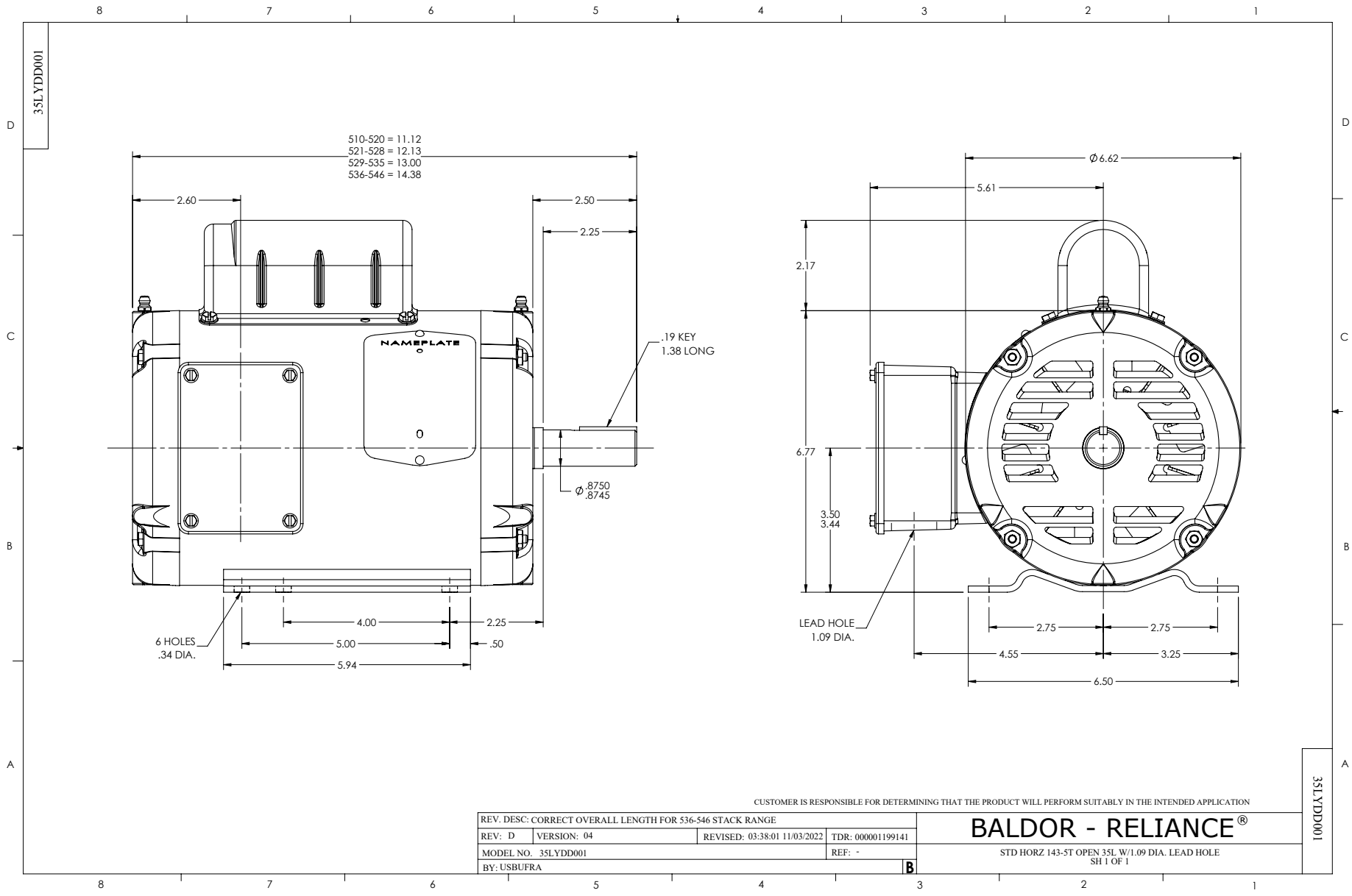
| **Winding:** 35WGG390-R002 | **Type:** 3524L | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 1 | **Full Load Torque** | 3.083 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 12.8/6.4 | **Breakdown Torque** | 6.48 LB-FT |
| **R.P.M.** | | | 1740 | **Pull-up Torque** | 5.08 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 9.87 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | K | **Starting Current** | 37.42 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 4.11 A |
| **NEMA Nom. Eff.** | 68 | **Power Factor** | 75 | **Line-line Res. @ 25ºC** | 3.1392 Ω A Ph<br>1.3641 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | |

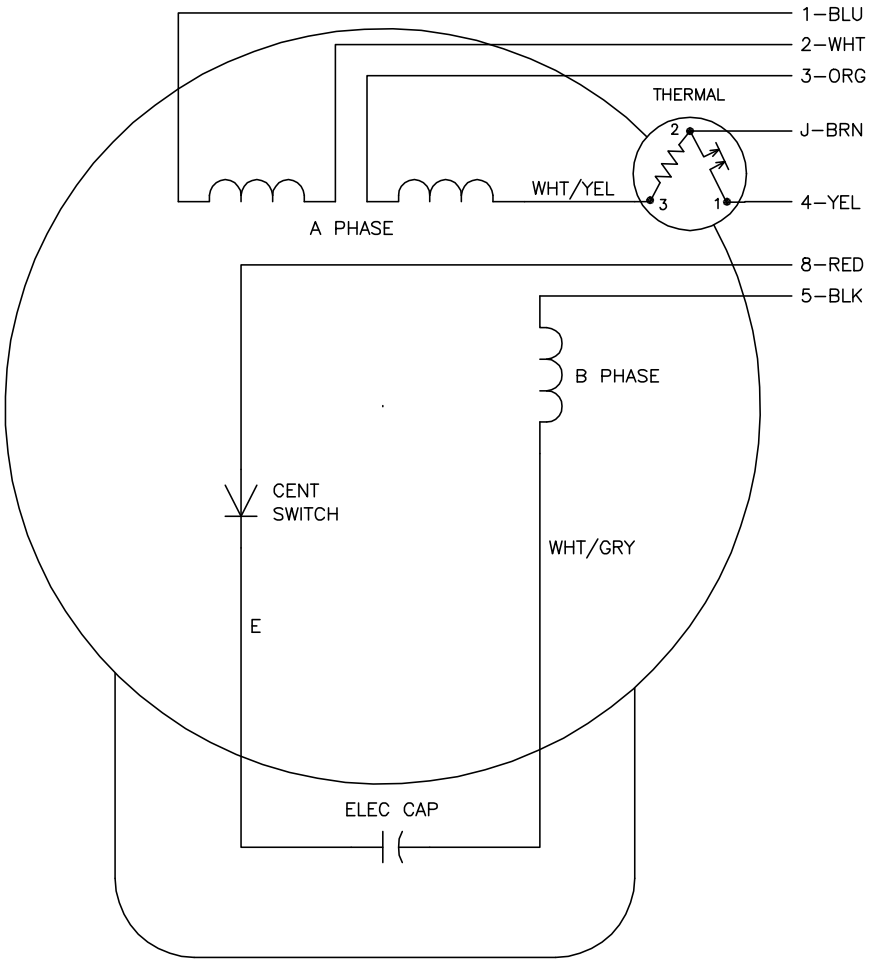
**Load Characteristics 230 V, 60 Hz, 1 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 38 | 55 | 67 | 75 | 81 | 84 | 79 |
| **Efficiency** | 52.3 | 65.3 | 69 | 69.1 | 66.9 | 62.2 | 67.8 |
| **Speed** | 1785.1 | 1772.7 | 1758.5 | 1741.1 | 1719.1 | 1687.9 | 1728 |
| **Line amperes** | 4.26 | 4.73 | 5.44 | 6.39 | 7.6 | 9.19 | 7.12 |


ABB Motors and Mechanical Inc.
WINDING # 35WGG390
Typical performance - not guaranteed values.
1 HP 1 PH 60 HZ 1740 RPM 230 V 3524L
TORQUES(LB-FT): PO=6.48 PU=5.08 LR=9.87 LRA=37.42
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/5/2026 ACPERF, record # 107851


35LYDD001
510-520 = 11.12
521-528 = 12.13
529-535 = 13.00
536-546 = 14.38
2.60
2.50
2.25
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
4.00
2.25
6 HOLES
.34 DIA.
5.00
.50
5.94
Ø 6.62
5.61
2.17
6.77
3.50
3.44
LEAD HOLE
1.09 DIA.
2.75
2.75
4.55
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT OVERALL LENGTH FOR 536-546 STACK RANGE
REV: D
VERSION: 04
REVISED: 03:38:01 11/03/2022
TDR: 000001199141
MODEL NO. 35LYDD001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5T OPEN 35L W/1.09 DIA. LEAD HOLE
SH 1 OF 1
35LYDD001

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 | |