ABB BALDOR RELIANCE

# Customer information packet

## EFM3154T

1.5HP, 1770RPM, 3PH, 60HZ, 145T, 3524M, OPSB, F
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPSB |
| **Frame** | 145T |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 1.500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | NEMA PREMIUM |
| **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** | 2.300 A @ 460.0 V |
| | 4.600 A @ 230.0 V |
| | 4.640 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.3 a |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | 35NN878 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGL955 |
| **Layout** | 35LYNN878 |
| **Eff. date** | 01-05-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 01-10-2022 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3524M |
| **Mounting Arrangement** | F2 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.62 IN |
| **Power Factor** | 72 |
| **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** | 1770 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** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP3553L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EFM3154T | | | | | | | | | | |
| **SPEC** | 35NN878L955G1 | | | | | | | | | | |
| **HP** | 1.5 | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | |
| **AMPS** | 4.6/2.3 | | | | | | | | | | |
| **RPM** | 1770 | | | | | | | | | | |
| **FRAME** | 145T | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SF** | 1.15 | **CODE** | M | **DES** | B | **CLASS** | F | | | | |
| **NEMA NOM. EFF** | 86.5 | **PF** | 72 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | 010A | | | | | | | | | | |
| **ENCL** | OPSB | **SER** | | | | | | | | | |
| **DE** | 6205 | | **ODE** | 6203 | | | | | | | |
| **VPWM INVERTER READY** | | SFA 4.88/2.44 | | | | | | | | | |
| **CT30-60(2:1) VT3-60(20:1)** | | | | | | | | | | | |

**Accessories**

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

**AC Induction Motor Performance Data**
Record # 95388
Typical performance - not guaranteed values

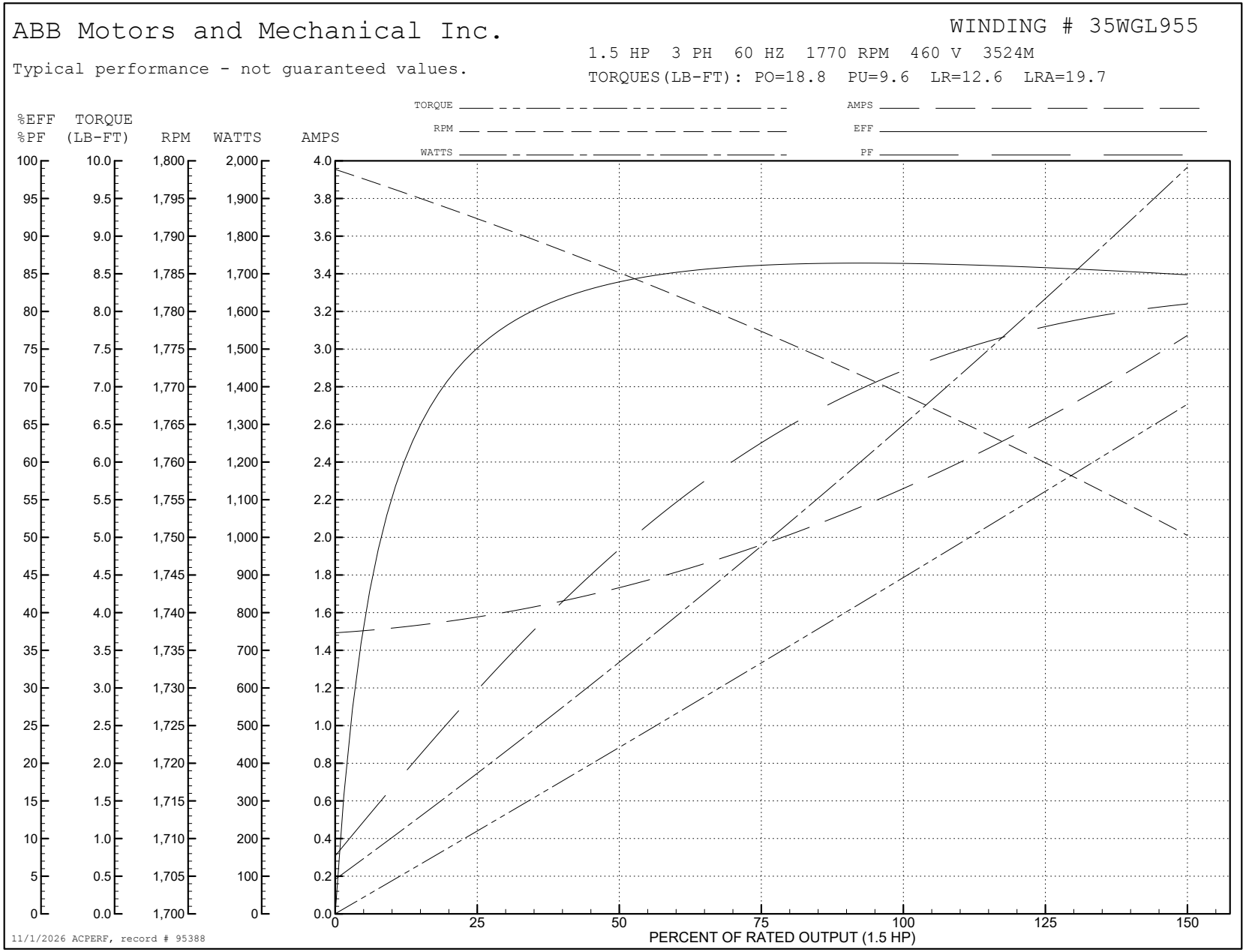
| **Winding:** 35WGL955-R002 | **Type:** 3524M | **Enclosure:** OPEN |
|---|---|---|

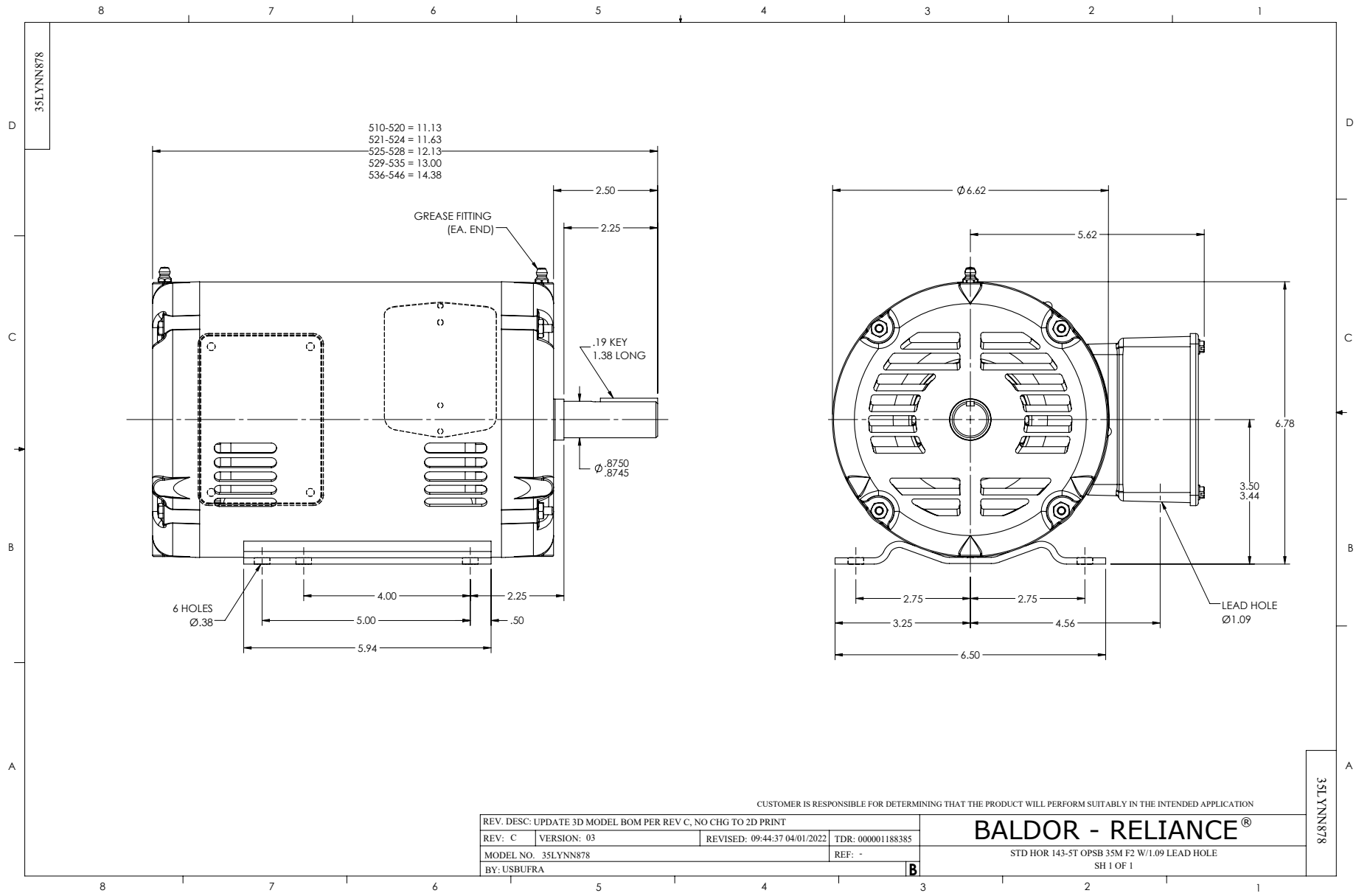
| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 1.5 |
| **Volts** | | | 230/460 |
| **Full Load Amps** | | | 4.6/2.3 |
| **R.P.M.** | | | 1770 |
| **Hz** | 60 | **Phase** | 3 |
| **NEMA Design Code** | B | **KVA Code** | M |
| **Service Factor (S.F.)** | | | 1.15 |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 72 |
| **Rating - Duty** | | | 40C AMB-CONT |
| **S.F. Amps** | | | 5/2.5 |

| **460 V, 60 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 4.48 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 18.8 LB-FT |
| **Pull-up Torque** | 9.6 LB-FT |
| **Locked-rotor Torque** | 12.6 LB-FT |
| **Starting Current** | 19.7 A |
| **No-load Current** | 1.51 A |
| **Line-line Res. @ 25ºC** | 11.8 Ω |
| **Temp. Rise @ Rated Load** | 48°C |
| **Temp. Rise @ S.F. Load** | 57°C |
| **Locked-rotor Power Factor** | 58.4 |
| **Rotor inertia** | 0.173 lb-ft² |

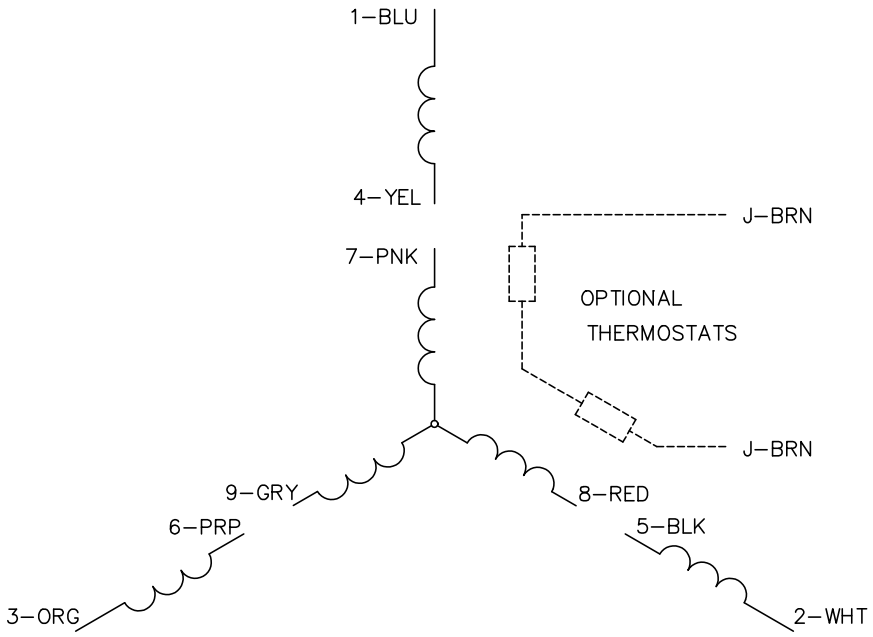
**Load Characteristics 460 V, 60 Hz, 1.5 HP**

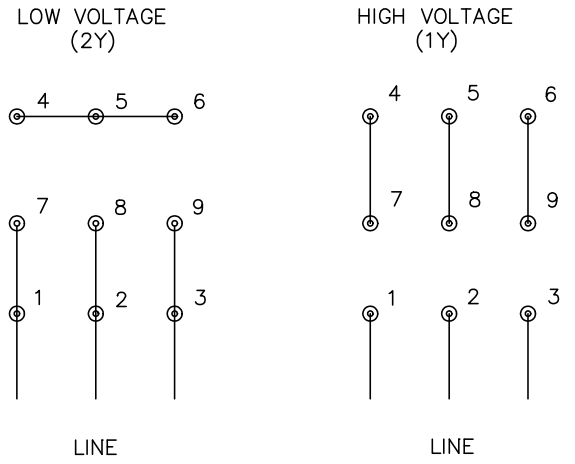
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 31 | 49 | 63 | 72 | 78 | 81 | 76 |
| **Efficiency** | 75.1 | 83.5 | 86 | 86.5 | 85.8 | 84.8 | 86.1 |
| **Speed** | 1792 | 1785 | 1777 | 1769 | 1760 | 1750 | 1764 |
| **Line amperes** | 1.56 | 1.72 | 1.97 | 2.28 | 2.65 | 3.06 | 2.5 |


ABB Motors and Mechanical Inc.
WINDING # 35WGL955
1.5 HP 3 PH 60 HZ 1770 RPM 460 V 3524M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=18.8 PU=9.6 LR=12.6 LRA=19.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/1/2026 ACPERF, record # 95388


35LYNN878
510-520 = 11.13
521-524 = 11.63
525-528 = 12.13
529-535 = 13.00
536-546 = 14.38
2.50
2.25
GREASE FITTING
(EA. END)
.19 KEY
1.38 LONG
Ø .8750
.8745
6 HOLES
Ø.38
4.00
2.25
5.00
.50
5.94
Ø6.62
5.62
6.78
3.50
3.44
2.75
2.75
3.25
4.56
6.50
LEAD HOLE
Ø1.09
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV C, NO CHG TO 2D PRINT
REV: C
VERSION: 03
REVISED: 09:44:37 04/01/2022
TDR: 000001188385
MODEL NO. 35LYNN878
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HOR 143-5T OPSB 35M F2 W/1.09 LEAD HOLE
SH 1 OF 1
35LYNN878

CD0005




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |