ABB BALDOR RELIANCE

# Customer information packet

## VFSWDL3503

.5HP, 3480RPM, 1PH, 60HZ, 56C, 3516L, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56C |
| **Frame Material** | Stainless 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** | .500 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** | UR |
| | 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** | 3.600 A @ 230.0 V |
| | 4.000 A @ 208.0 V |
| | 7.300 A @ 115.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 59.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

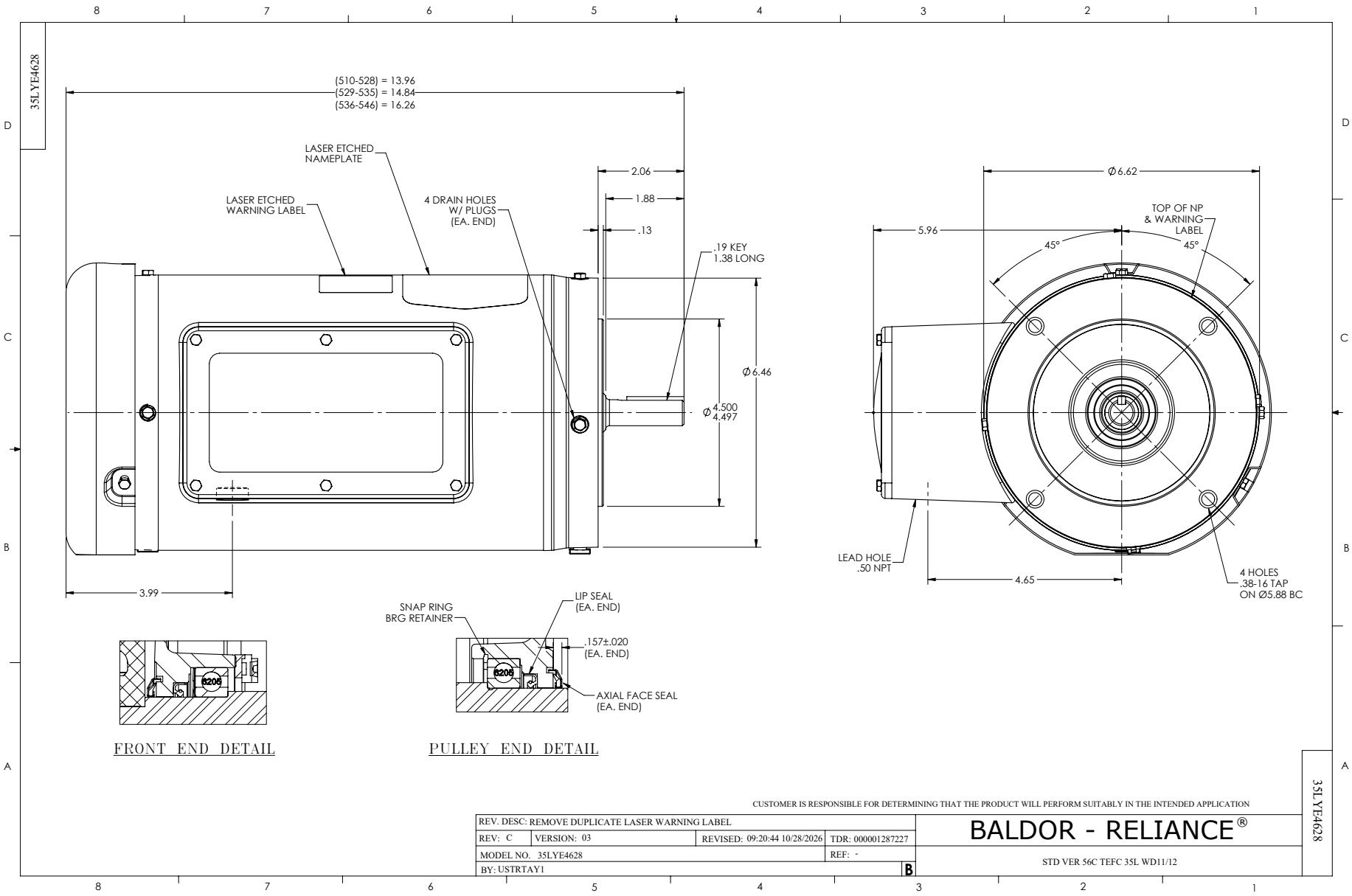
| | |
|---|---|
| **Revision** | F |
| **Type** | AC |
| **Mech. spec.** | 35E4628 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGL714 |
| **Layout** | 35LYE4628 |
| **Eff. date** | 08-30-2023 |
| **CD Diagram** | CD0648 |
| **Poles** | 02 |
| **Leads** | 7#18 |
| **Proprietary** | False |
| **Created date** | 06-28-2017 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 3.6 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Finish** | UNPAINTED |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | @ AWG |
| | 7 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3516L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 13.96 IN |
| **Power Factor** | 73 |
| **Product Family** | WD All SD Non-Encapsulated |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.25 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3480 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

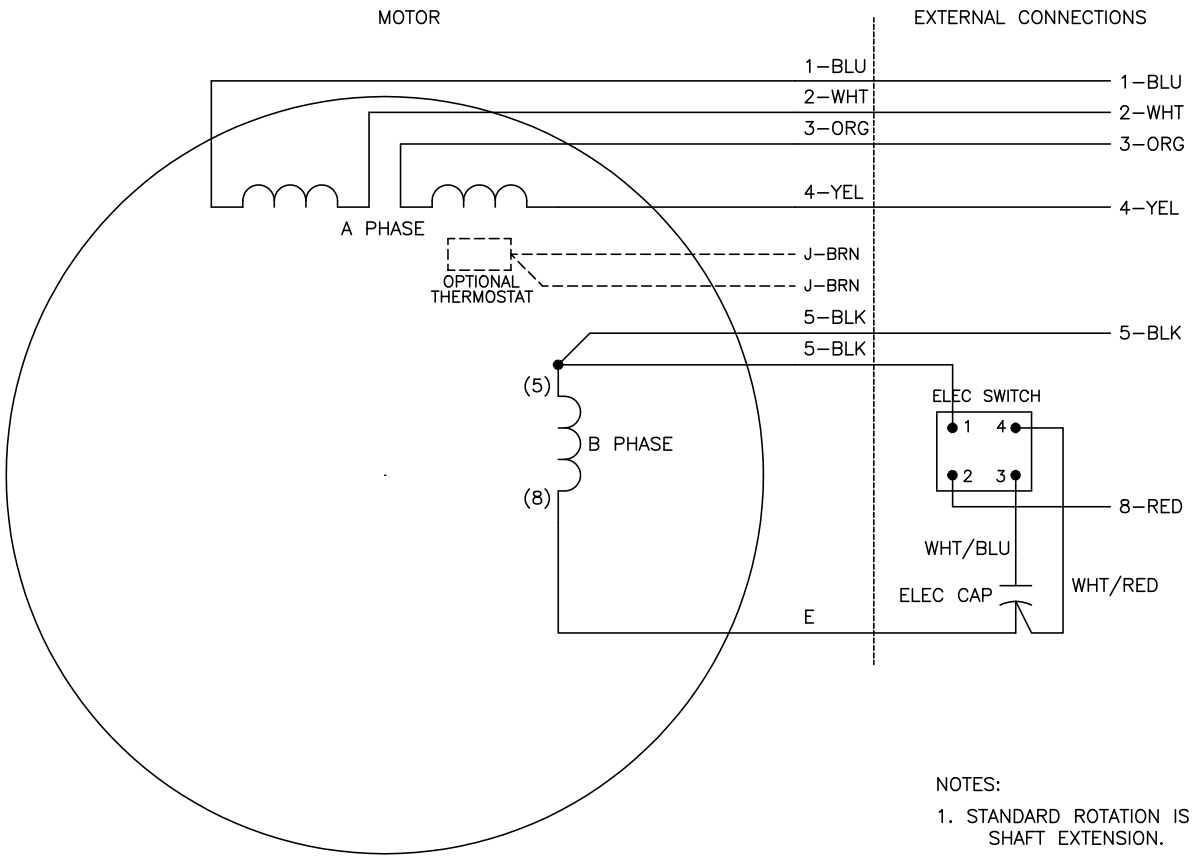
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|---|---|
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP4427ALG30 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | VFSWDL3503 | | | **WT** | 33 | | **LBS** | | | |
| **SPEC** | 35E4628L714G1 | | | **ENCL** | TEFC | | | | | |
| **SER #** | | | | **CC** | | | **IP** | 69 | | |
| **HP** | .5 | | | | | | **NEMA NOM. EFF** | | | 59.5 |
| **VOLTS** | 115/230 | | | | | | | | | |
| **AMPS** | 7.3/3.6 | | | | | | **PF** | 73 | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **RPM** | 3480 | | | | | | | | | |
| **FRAME** | 56C | **HZ** | 60 | **CODE** | M | | **CLASS** | | | F |
| **SER.F.** | 1.25 | **SF AMP** | 8.2/4.1 | | | | **PH** | 1 | **DES** | N |
| **DE** | 6205 | | **ODE** | 6205 | | | | | | |
| **LUBRICATION** | POLYREX EM | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | **QR** | |
| **YR** | | | | | | | | | | |


35LYE4628
(510-528) = 13.96
(529-535) = 14.84
(536-546) = 16.26
LASER ETCHED NAMEPLATE
LASER ETCHED WARNING LABEL
4 DRAIN HOLES W/ PLUGS (EA. END)
2.06
1.88
.13
.19 KEY 1.38 LONG
Ø6.46
Ø4.500 4.497
3.99
Ø6.62
TOP OF NP & WARNING LABEL
5.96
45°
45°
LEAD HOLE .50 NPT
4.65
4 HOLES .38-16 TAP ON Ø5.88 BC
SNAP RING BRG RETAINER
LIP SEAL (EA. END)
.157±.020 (EA. END)
AXIAL FACE SEAL (EA. END)
6206
6205
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE DUPLICATE LASER WARNING LABEL
REV: C
VERSION: 03
REVISED: 09:20:44 10/28/2026
TDR: 000001287227
MODEL NO. 35LYE4628
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
STD VER 56C TEFC 35L WD11/12
35LYE4628

CD0648




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

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. USE STEARNS ELECTRONIC START SWITCH OR EQUIVALENT.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0648

| | | | |
|---|---|---|---|
| REV. DESC: ADD OPTIONAL LEAD COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: B | BY: JLP | REVISED: 12/04/00 10:12 | TDR: 0226347 |
| CD0648 | | FILE: AAA00011416 | REF: – |
| | | MTL: – | TYPE L, DV, REV, 6 LEAD, SEPERATE CAP AND ELECTRONIC SWITCH |