# Customer information packet

CDPSWD3555

1HP, 1750RPM, DC, 56C, 3536P, TEFC, F1
Class - None
Division -

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11/16/2026 3:04:02 PM

## Specifications

| | |
|---|---|
| **Armature Voltage** | 180 V |
| **Base Speed** | 1750 rpm |
| **Enclosure** | TEFC |
| **Frame** | 56C |
| **Frame Material** | Stainless Steel |
| **Haz Area Class and Group** | None |
| **Output Power** | 1.000 HP |
| **Agency Approvals** | CSA |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Armature Current** | 4.9 a |
| **Armature Inertia** | 30.342 lb-ft2 |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **Lifting Lugs** | No Lifting Lugs |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 2 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Mounting Arrangement** | F1 |
| **Overall Length** | 16.30 IN |
| **Product Family** | Wash Down Paint Free |
| **Pulley End Bearing Type** | Sealed Bearing |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |

## Part Detail

| | |
|---|---|
| **Revision** | V |
| **Type** | DC |
| **Mech. spec.** | 35P634 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGZ164 |
| **Layout** | 35LYP634 |
| **Eff. date** | 04-13-2023 |
| **CD Diagram** | CD0194 |
| **Poles** | 00 |
| **Leads** | |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |

**Nameplate**

| NP1502 | | | |
|---|---|---|---|
| **CAT.NO.** | CDPSWD3555 | | |
| **SPEC.** | 35P634Z164G1 | | |
| **HP** | 1 | **ENCL** | TEFC |
| **RPM** | 1750 | | |
| **FRAME** | 56C | **TYPE** | 3536P |
| **ARM V** | 180 | **ARM A** | 4.9 |
| **FLD V** | | **FLD A** | |
| **INSUL** | F | **AMB.** | 40 |
| **DUTY** | CONT | **SUPPLY** | K |
| **BRG/DE** | 6205 | **BRG/ODE** | 6205 |
| **BRUSHES** | 2/BP5000T15 | | |
| | | **BLANK** | |
| **SER.** | | | |
| **BLANK** | | | |
| **APRV-CSA** | **APRV-UL** | | |

**DC Motor Performance Data**
Record # 1412
Typical performance - not guaranteed values

| **Winding:** 35WGZ164-R003 | **Type:** 3536P | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | |
|---|---|
| **Rated Output (HP)** | 1 |
| **R.P.M.** | 1750 |
| **Armature Volts** | 180 |
| **Armature Amps** | 4.9 |
| **Field Volts** | |
| **Field Amps** | |
| **Rating - Duty** | 40C AMB-CONT |
| **Power Supply Code** | K |

| **General Characteristics** | |
|---|---|
| **Armature Resistance @ 25ºC** | 0.965 Ω |
| | |
| **Voltage Constant** | 97.47 v/krpm |
| | |
| **Armature Inductance** | 12.959 mH |
| **Armature Inertia** | 30.342 LI² |

**Load Characteristics at 180 Armature Volts**

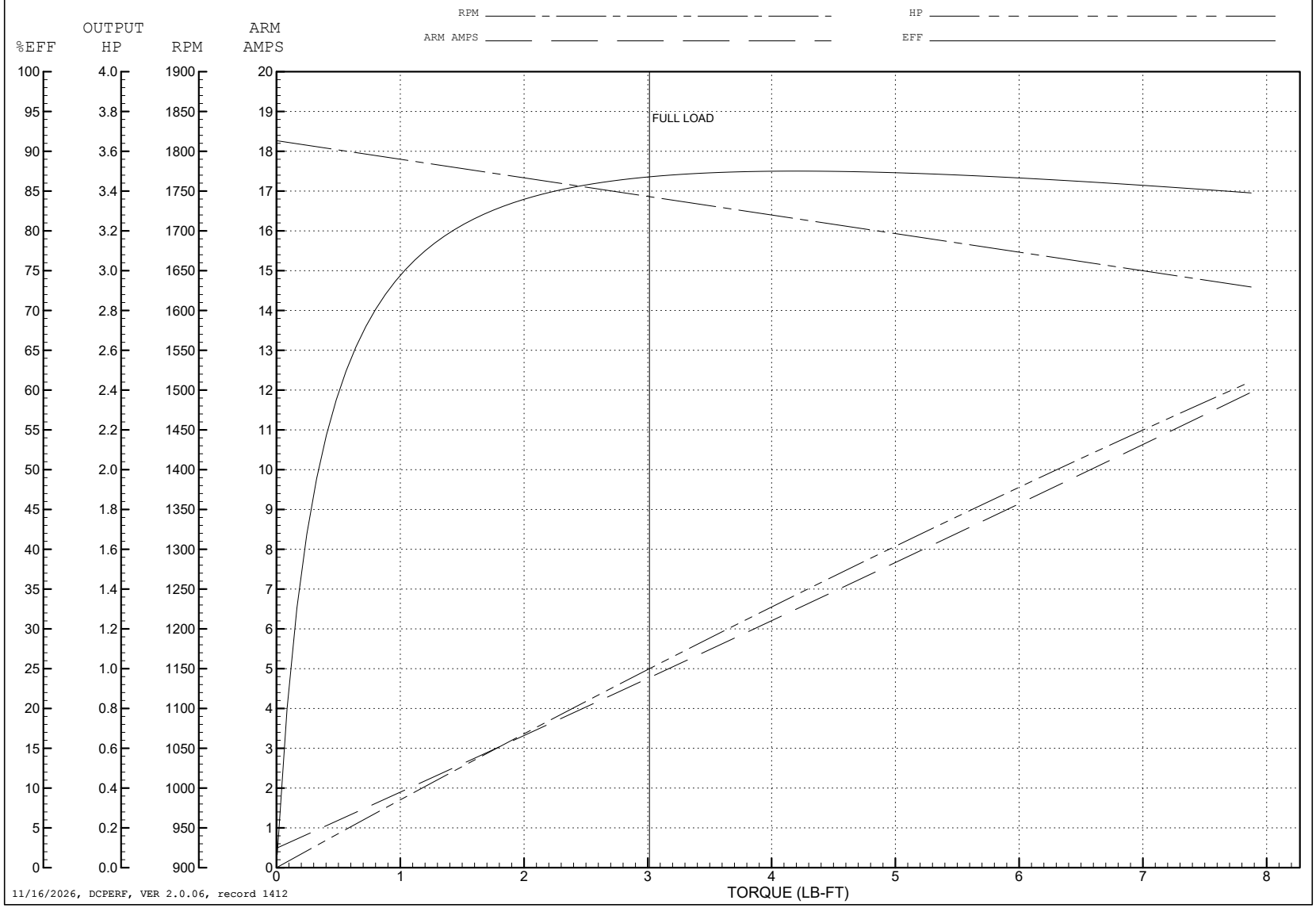
| **Load Point** | **1** | **2** | **3** | **4** | **5** | **6** | **7** |
|---|---|---|---|---|---|---|---|
| **Armature Amps** | 0.5 | 3.6 | 5.4 | 7 | 8.5 | 10.2 | 12 |
| **R.P.M.** | 1819 | 1762 | 1727 | 1701 | 1682 | 1661 | 1632 |
| **Torque ( LB-FT )** | 0 | 2.25 | 3.375 | 4.5 | 5.625 | 6.75 | 7.875 |

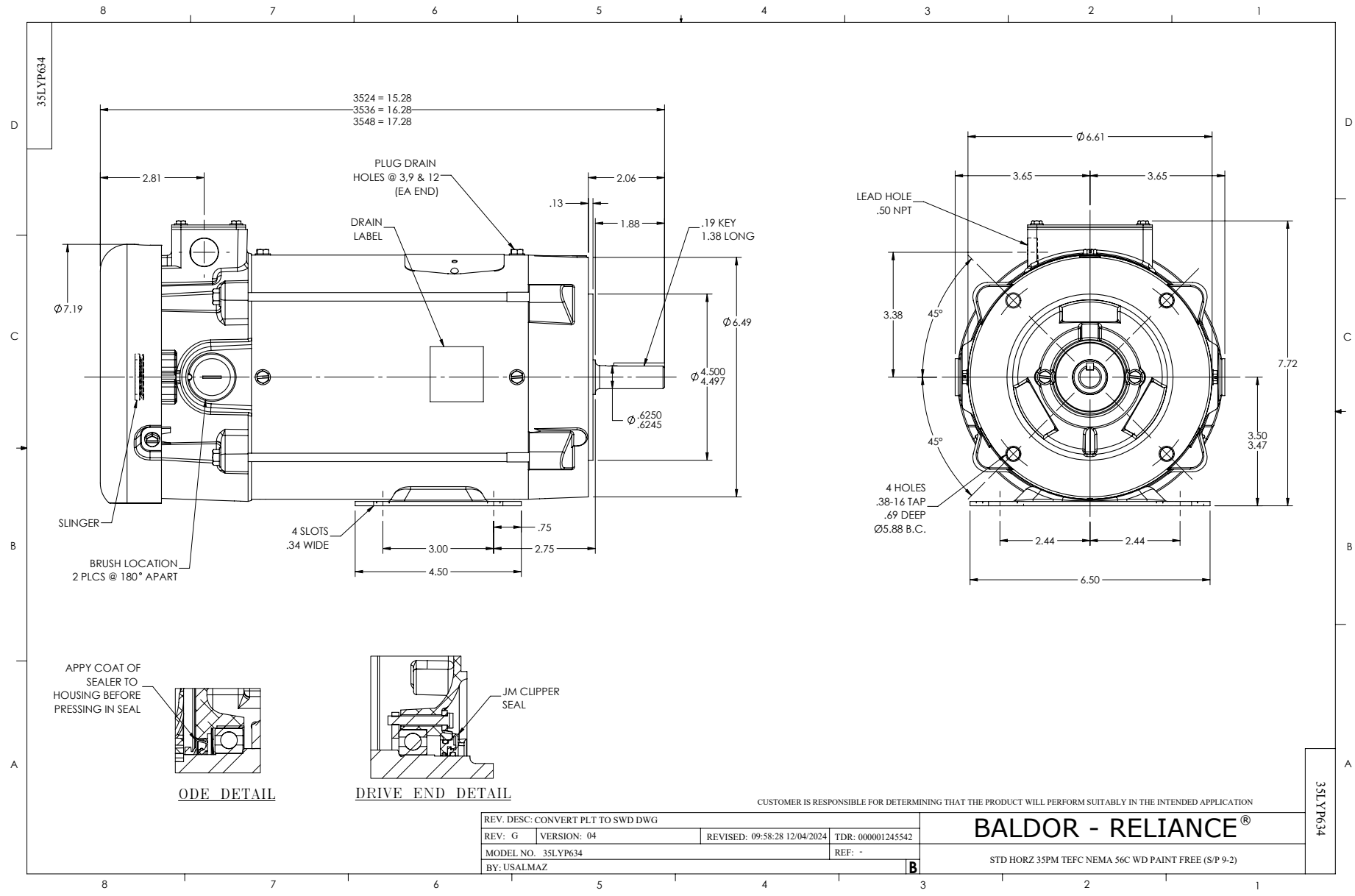
ABB Motors and Mechanical Inc.

WINDING # 35WGZ164

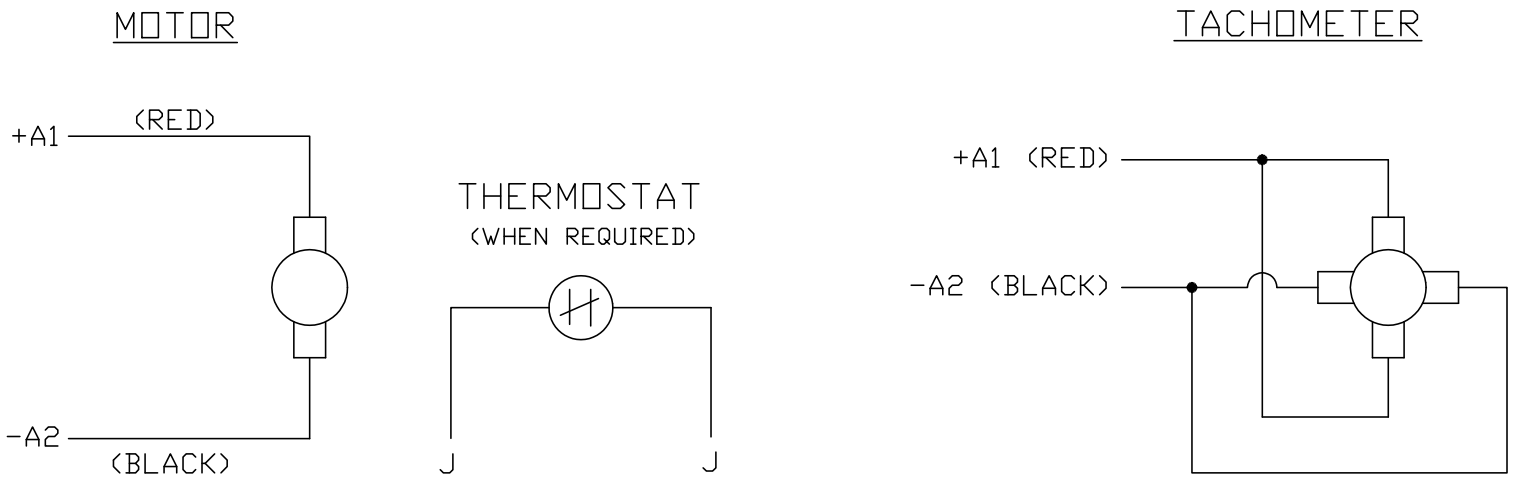
Typical performance - not guaranteed values.

1 HP DC 1750 RPM 180 V 3536P
ENCL: TEFC DUTY: CONT CL: F




35LYP634
3524 = 15.28
3536 = 16.28
3548 = 17.28
2.81
PLUG DRAIN HOLES @ 3,9 & 12 (EA END)
2.06
.13
1.88
.19 KEY 1.38 LONG
DRAIN LABEL
Ø7.19
Ø6.49
Ø4.500 4.497
Ø.6250 .6245
SLINGER
BRUSH LOCATION 2 PLCS @ 180° APART
4 SLOTS .34 WIDE
.75
3.00
2.75
4.50
Ø6.61
3.65
3.65
LEAD HOLE .50 NPT
3.38
45°
7.72
3.50 3.47
4 HOLES .38-16 TAP .69 DEEP Ø5.88 B.C.
2.44
2.44
6.50
APPY COAT OF SEALER TO HOUSING BEFORE PRESSING IN SEAL
JM CLIPPER SEAL
ODE DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT PLT TO SWD DWG
REV: G
VERSION: 04
REVISED: 09:58:28 12/04/2024
TDR: 000001245542
MODEL NO. 35LYP634
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD HORZ 35PM TEFC NEMA 56C WD PAINT FREE (S/P 9-2)
35LYP634

CD0194




NOTES:

1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)

2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

CD0194

| | | | | |
|---|---|---|---|---|
| MATL: – | | | | BALDOR ELECTRIC Co. |
| REV: E | ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &.... | | | |
| CD0194 | SCALE: – | BY: CK | REVISED: 07/28/95 | CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS |
| | FILE: AAA00004503 | | TDR: 0078737 | |