ABB BALDOR RELIANCE

# Customer information packet

## VP3439D

.57/.75HP, 3000RPM, DC, D80D, 3420P, TEFC, F2
Class - None
Division -

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## Specifications

| | |
|---|---|
| **Armature Voltage** | 180 V |
| **Base Speed** | 3000 rpm |
| **Enclosure** | TEFC |
| **Frame** | D80D |
| **Frame Material** | Steel |
| **Haz Area Class and Group** | None |
| **Output Power** | 0.750 HP |
| **Agency Approvals** | CE |
| | CSA |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Armature Current** | 3.6 a |
| **Armature Inertia** | 7.804 lb-ft2 |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Feedback Device** | NO FEEDBACK |
| **Frame Prefix** | D |
| **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** | IEC |
| **Mounting Arrangement** | B35 |
| **Overall Length** | 14.35 IN |
| **Product Family** | BISSIC |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.748 IN |
| **Shaft Extension Location** | Pulley End |

## Part Detail

| | |
|---|---|
| **Revision** | R |
| **Type** | DC |
| **Mech. spec.** | 34-6483 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WG5699 |
| **Layout** | 34LY6483 |
| **Eff. date** | 10-25-2024 |
| **CD Diagram** | CD0194 |
| **Poles** | 00 |
| **Leads** | |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |

**Nameplate**

| NP1049L | | | | | |
|---|---|---|---|---|---|
| **CAT.NO.** | VP3439D | | | | |
| **SPEC.** | 34-6483-5699 | | | | |
| **KW/HP** | .56/.75 TE | | **I.P.** | 54 | |
| **RPM** | 3000 1/MIN KG17 IC411 TE | | | | |
| **IEC FRAME** | D80D | **TYPE** | 3420P | | |
| **ARM V** | 180 | | **ARM A** | 3.6 | |
| **FLD V** | | | **FLD A** | | |
| **INSUL** | F | **AMB.** | 40 | | |
| **DUTY** | CONT | | **SUPPLY** | 1.5 | |
| **BRG/DE** | 6206 | **BRG/ODE** | 6203 | | |
| **BRUSHES** | 2/BP5000AW14 | | | | |
| | | | **BLANK** | | |
| **SER.** | | | | | |
| **BLANK** | IEC60034-1;-5 | | | | |
| **APRV-CE** | | **APRV-CSA** | | **APRV-UL** | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| TK3400 | TACHO MOUNTING KIT FOR TK3400 | A8 |
| TK3400-HPU | HPU10 MOUNTING KIT 34P/35P TEFC | |

**DC Motor Performance Data**
Record # 536
Typical performance - not guaranteed values

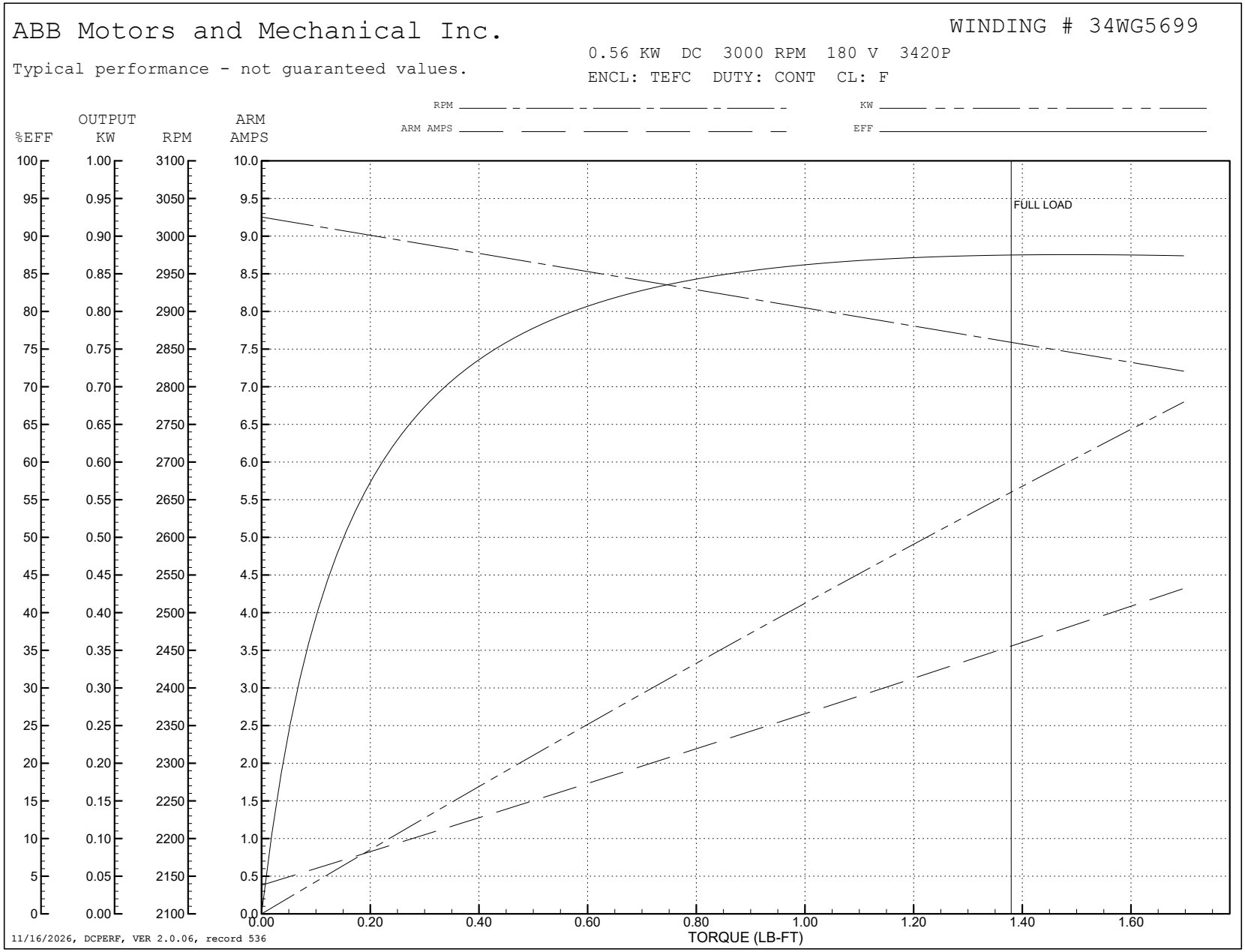
| **Winding:** 34WG5699-R001 | **Type:** 3420P | **Enclosure:** TEFC |
|---|---|---|

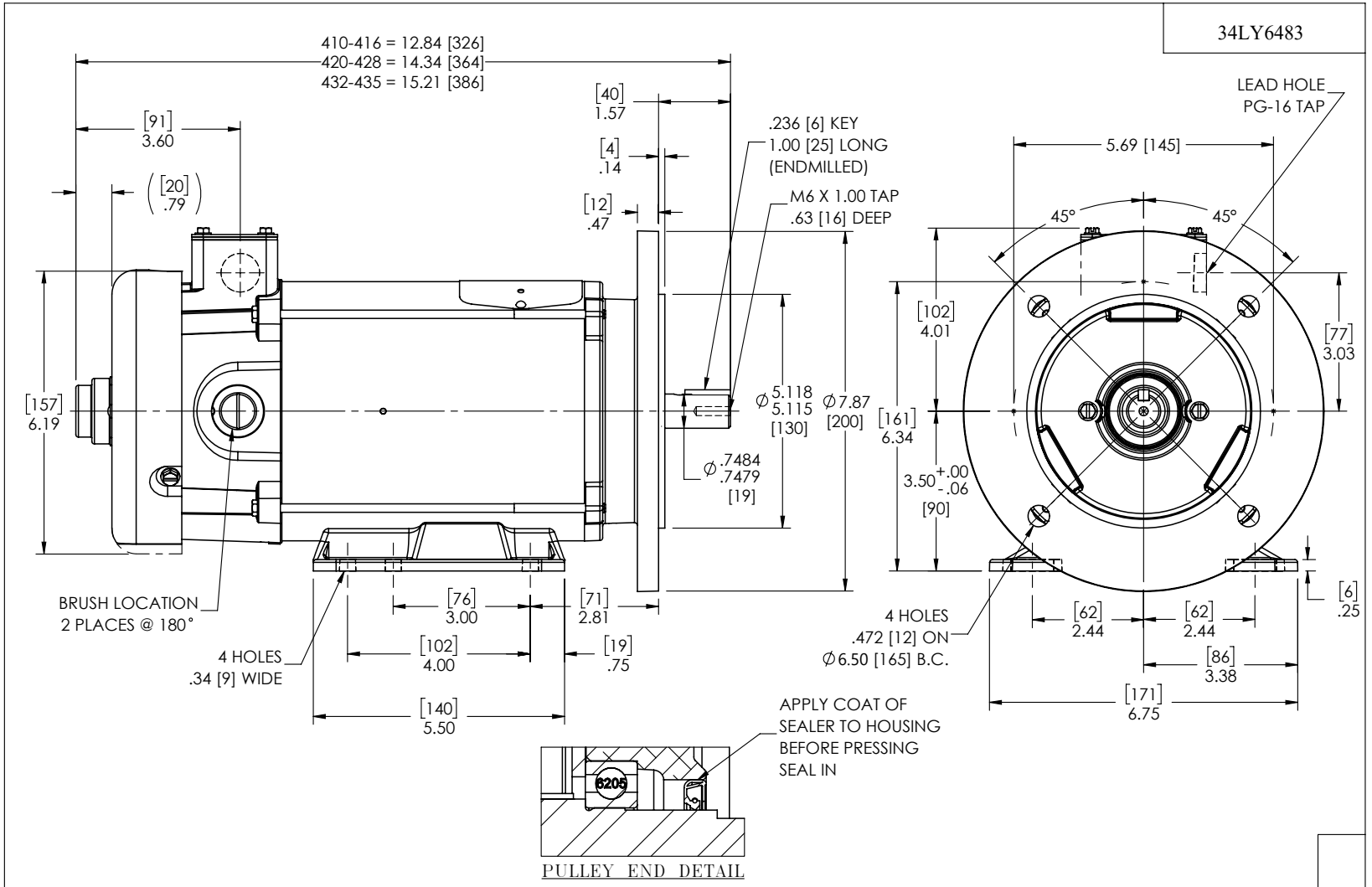
| **Nameplate Data** | |
|---|---|
| **Rated Output (KW)** | 0.56 |
| **R.P.M.** | 3000 |
| **Armature Volts** | 180 |
| **Armature Amps** | 3.6 |
| **Field Volts** | |
| **Field Amps** | |
| **Rating - Duty** | 40C AMB-CONT |
| **Form Factor** | 1.5 |

| **General Characteristics** | |
|---|---|
| **Armature Resistance @ 25ºC** | 2.1453 Ω |
| | |
| **Voltage Constant** | 59.12 v/krpm |
| | |
| **Armature Inductance** | 16.1557 mH |
| **Armature Inertia** | 7.804 LI² |
| | |
| | |

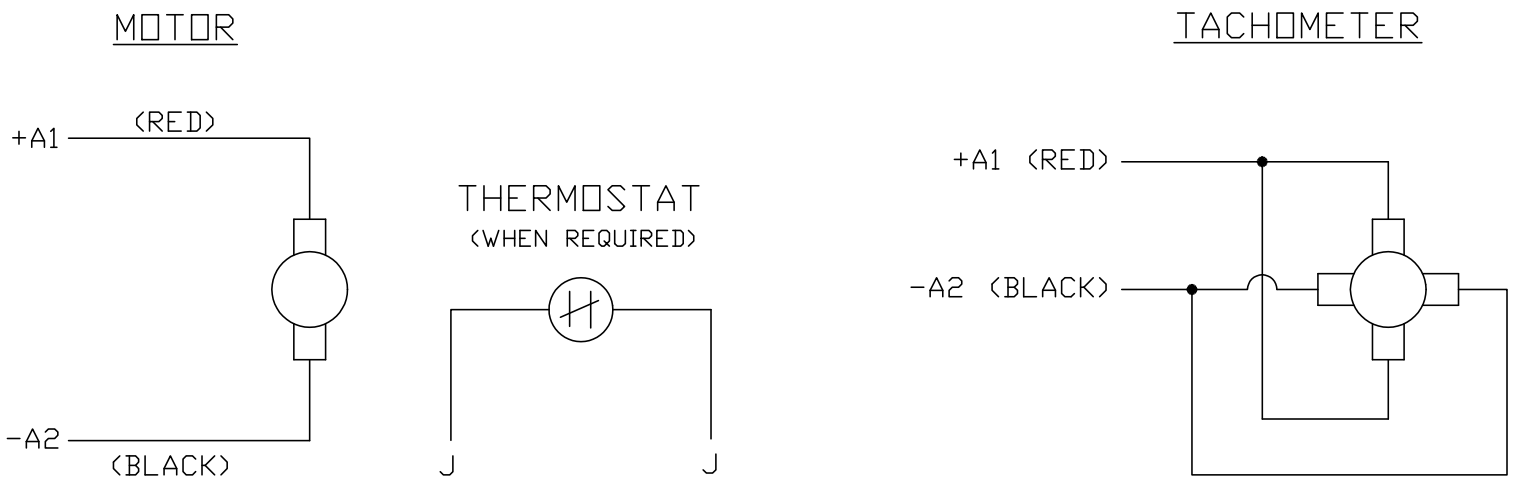
**Load Characteristics at 180 Armature Volts**

| **Load Point** | **1** | **2** | **3** | **4** | **5** | **6** |
|---|---|---|---|---|---|---|
| **Armature Amps** | 0.4 | 1.6 | 2.3 | 3 | 3.6 | 4.3 |
| **R.P.M.** | 3028 | 2961 | 2919 | 2879 | 2859 | 2827 |
| **Torque ( LB-FT )** | 0 | 0.559 | 0.859 | 1.117 | 1.396 | 1.697 |


ABB Motors and Mechanical Inc.
WINDING # 34WG5699
Typical performance - not guaranteed values.
0.56 KW DC 3000 RPM 180 V 3420P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
KW
EFF
%EFF
OUTPUT KW
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
11/16/2026, DCPERF, VER 2.0.06, record 536


34LY6483
410-416 = 12.84 [326]
420-428 = 14.34 [364]
432-435 = 15.21 [386]
[91] 3.60
([20] .79)
[40] 1.57
[4] .14
[12] .47
.236 [6] KEY
1.00 [25] LONG
(ENDMILLED)
M6 X 1.00 TAP
.63 [16] DEEP
[157] 6.19
Ø5.118
5.115
[130]
Ø7.87
[200]
Ø.7484
.7479
[19]
BRUSH LOCATION
2 PLACES @ 180°
4 HOLES
.34 [9] WIDE
[76] 3.00
[71] 2.81
[102] 4.00
[19] .75
[140] 5.50
LEAD HOLE
PG-16 TAP
5.69 [145]
45°
45°
[102] 4.01
[77] 3.03
[161] 6.34
3.50 +.00 -.06
[90]
[6] .25
4 HOLES
.472 [12] ON
Ø6.50 [165] B.C.
[62] 2.44
[62] 2.44
[86] 3.38
[171] 6.75
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN
6205
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS - REV A
REV: B
VERSION: 02
REVISED: 01:26:35 12/27/2022
TDR: 000001201165
BALDOR - RELIANCE®
34LY6483
MODEL NO. 34LY6483
REF: -
BY: ENFRAJ0
HOR 34PM TEFC IEC D80D, B5/B35 NEMA BASE & MTG/MFTK
34LY6483

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 | |