ABB BALDOR RELIANCE

# Customer information packet

## VP3455D

.75/1HP, 1750RPM, DC, D80D, 3435P, TEFC, F2
Class - None
Division -

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10/30/2026 5:29:12 AM

## Specifications

| | |
|---|---|
| **Armature Voltage** | 180 V |
| **Base Speed** | 1750 rpm |
| **Enclosure** | TEFC |
| **Frame** | D80D |
| **Frame Material** | Steel |
| **Haz Area Class and Group** | None |
| **Output Power** | 1.000 HP |
| **Agency Approvals** | CE |
| | CSA |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Armature Current** | 5.0 a |
| **Armature Inertia** | 13.657 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** | 15.22 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** | P |
| **Type** | DC |
| **Mech. spec.** | 34-6483 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WG3865 |
| **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.** | VP3455D | | | | | |
| **SPEC.** | 34-6483-3865 | | | | | |
| **KW/HP** | .75/1 IC411 | | | **I.P.** | 54 TE 21KG | |
| **RPM** | 1750 1/MIN IEC60034-1;-5 | | | | | |
| **IEC FRAME** | D80D | **TYPE** | 3435P | | | |
| **ARM V** | 180 | | | **ARM A** | 5 | |
| **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** | | | | | | |
| **APRV-CE** | | **APRV-CSA** | | **APRV-UL** | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA053021 | SA 34-6483-3865 | 1.000 ea |
| AA005943 | AA 34-6483-3865 | 1.000 ea |
| BP5000AW14SP | CARBON BRUSH - 33P, 180 VOLTS | 1.000 ea |
| HA3210B66 | .125 DIA X .281 (AUTO) | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 34EP3103B14 | FR ENDPLATE MACH 34PM TEFC F-2 MTG W/PG- | 1.000 ea |
| WD4100A17 | PLUG STIMPSON D4036 | 1.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 34EP2505A01 | FLG MTG EP IEC F165 ENCL 205 BRG MACH. | 1.000 ea |
| HW4600H11 | SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB | 1.000 ea |
| 51XN1032A24 | 10-32 X 1 1/2 HX WS SL SR | 2.000 ea |
| BP5201A11SP | BRUSH HOLDER ASSY W/BP4511A01, BP3000A01 | 1.000 ea |
| 80XN1032J03 | 10-32 X 3/16 SET SCREW, HEX SOC, CUP PT | 2.000 ea |
| 34FN3002A01SP | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/ | 1.000 ea |
| 34FH5002A01SP | FAN COVER ASSY W/SHAFT COVER | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 34CB4504SP | CONDUIT BOX LID, STAMPED | 1.000 ea |
| 34GS1011SP | GASKET, CONDUIT BOX LID | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| HW3001B02 | BRASS CUP WASHER W/GROUND SYMBOL TAB, | 1.000 ea |
| WD4102A01 | SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M | 1.000 ea |
| HW2504E10 | KEY, 6 MM X 1.000 | 1.000 ea |
| HA7000A11 | KEY RETAINER 0.750 DIA SHAFTS | 1.000 ea |
| MG1050G01 | CELEROL MEDIUM CHARCOAL METALLIC GRAY | 0.014 ga |
| MJ5004A05 | #242-21 LOCTITE GENERAL PURPOSE MED. STR | 0.001 ea |
| MJ5001A27 | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL | 0.001 qt |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| ML14A1B14 | 14 AWG,A1,BLACK | 8.500 in |
| ML14A2B14 | 14 AWG,A2,BLACK | 8.500 in |
| HA3100A37 | THRUBOLT 10-32 X 8.500 | 4.000 ea |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |

| | | |
|---|---|---|
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| LC0194 | CONNECTION LABEL | 1.000 ea |
| NP1049L | NP STD LASER ENGRAVED IEC DC MOTORS, UL | 1.000 ea |
| 27PA1006 | PKG GRP, PRINT PK1027A07 | 1.000 ea |

**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 # 237
Typical performance - not guaranteed values

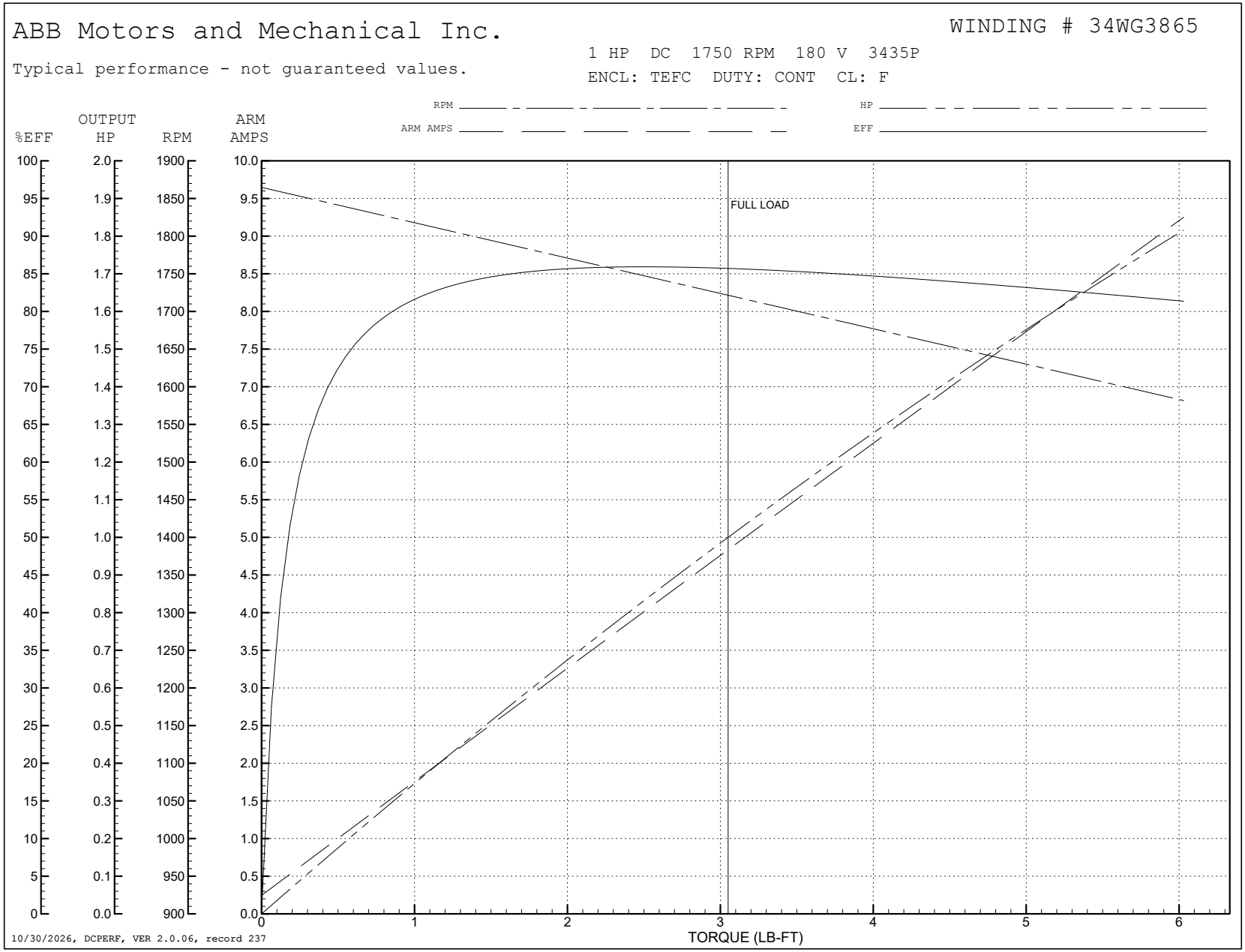
| **Winding:** 34WG3865-R001 | **Type:** 3435P | **Enclosure:** TEFC |
|---|---|---|

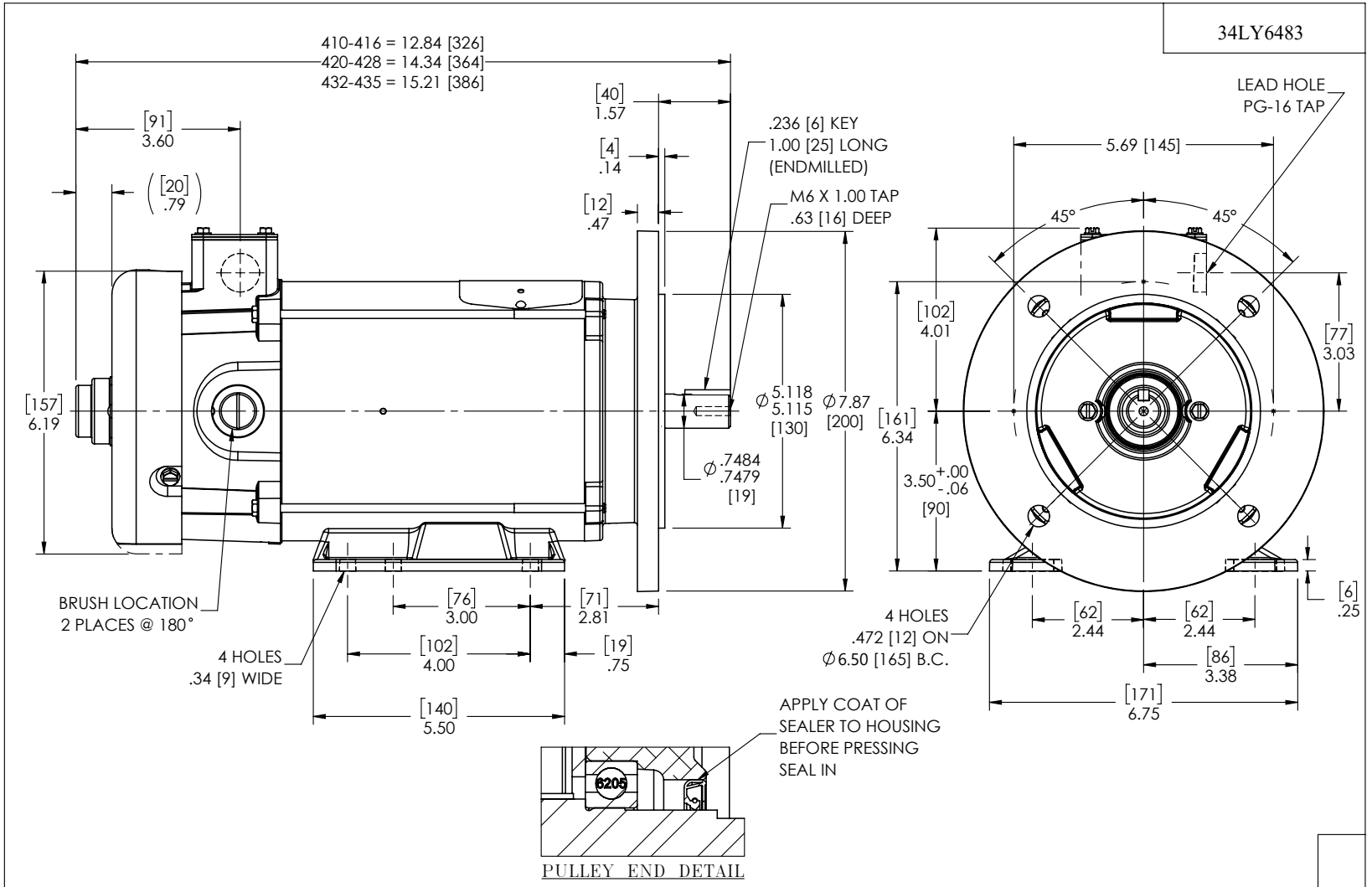
| **Nameplate Data** | |
|---|---|
| **Rated Output (HP)** | 1 |
| **R.P.M.** | 1750 |
| **Armature Volts** | 180 |
| **Armature Amps** | 5 |
| **Field Volts** | |
| **Field Amps** | |
| **Rating - Duty** | 40C AMB-CONT |
| **Form Factor** | 1.5 |

| **General Characteristics** | |
|---|---|
| **Armature Resistance @ 25ºC** | 1.9971 Ω |

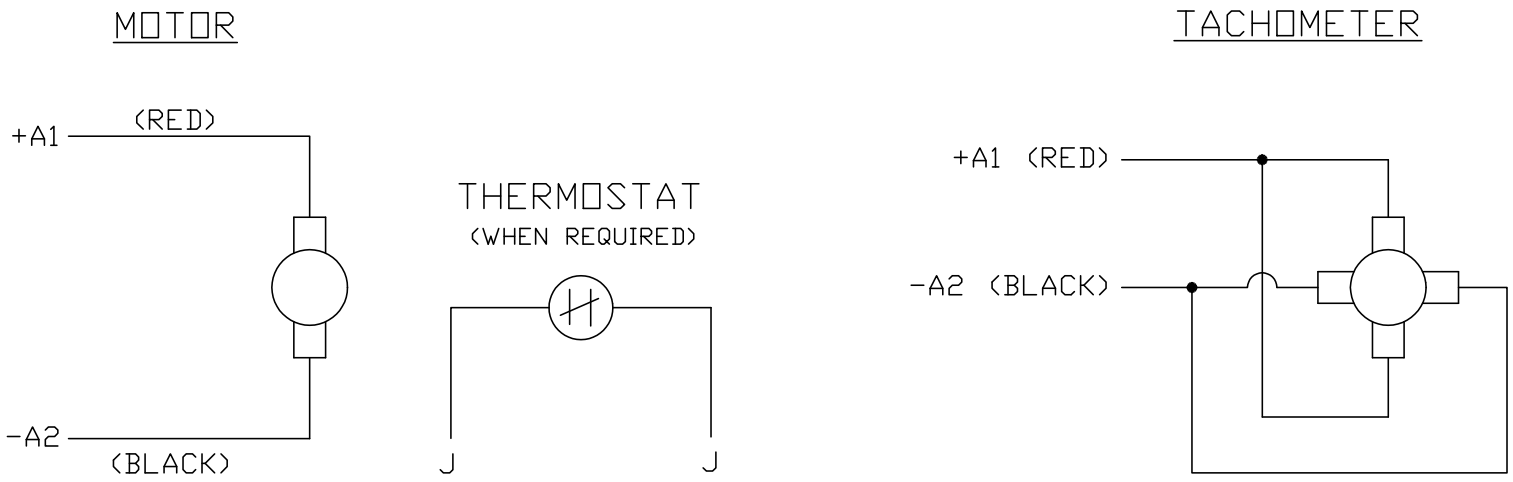
**Load Characteristics at 180 Armature Volts**

| **Load Point** | **1** | **2** | **3** | **4** | **5** | **6** | **7** |
|---|---|---|---|---|---|---|---|
| **Armature Amps** | 0.23 | 1.41 | 2.52 | 3.66 | 4.83 | 7.05 | 9.26 |
| **R.P.M.** | 1870 | 1829 | 1794 | 1755 | 1720 | 1643 | 1590 |
| **Torque ( LB-FT )** | 0 | 0.75 | 1.51 | 2.26 | 3.05 | 4.55 | 6.03 |


ABB Motors and Mechanical Inc.
WINDING # 34WG3865
Typical performance - not guaranteed values.
1 HP DC 1750 RPM 180 V 3435P
ENCL: TEFC DUTY: CONT CL: F
RPM
ARM AMPS
HP
EFF
%EFF
OUTPUT HP
RPM
ARM AMPS
FULL LOAD
TORQUE (LB-FT)
10/30/2026, DCPERF, VER 2.0.06, record 237


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
6205
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
SEAL IN
PULLEY END DETAIL
LEAD HOLE
PG-16 TAP
5.69 [145]
45°
45°
[102] 4.01
[161] 6.34
3.50 +.00 -.06
[90]
[77] 3.03
[6] .25
4 HOLES
.472 [12] ON
Ø6.50 [165] B.C.
[62] 2.44
[62] 2.44
[86] 3.38
[171] 6.75
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 | |