ABB BALDOR RELIANCE

# Customer information packet

## MVM3463C

.56KW, 3450RPM, 3PH, 60HZ, D71C, 3328M, TEFC

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | D71C |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | .750 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UR |
| **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** | 1.400 A @ 460.0 V |
| | 2.800 A @ 230.0 V |
| | 3.400 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 75.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Feedback Signal** | NONE |
| **Frame Prefix** | D |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | AM |
| **Type** | AC |
| **Mech. spec.** | 33-1922 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 33WGW274 |
| **Layout** | 33LY1922 |
| **Eff. date** | 10-24-2024 |
| **CD Diagram** | CD0005A05 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 06-25-2007 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 1.4 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | IEC |
| **Motor Type** | 3328M |
| **Mounting Arrangement** | F2 |
| **Number of Poles** | 2 |
| **Overall Length** | 11.24 IN |
| **Power Factor** | 78 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Tapped & Key |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.25 |
| **Shaft Diameter** | 0.552 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3450 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**

| NP1379L | | | | | | | |
|---|---|---|---|---|---|---|---|
| **CAT.NO.** | MVM3463C | | | | | | |
| **SPEC.** | 33-1922W274 | | | | | | |
| **IEC FRAME** | D71C | **K.W.** | .56 TE | | | | |
| **VOLTS** | 230/460 ENCL TEFC | | | | | | |
| **AMP** | 2.8/1.4 | | | | | | |
| **RPM** | 3450 | **I.P.** | 54 | | | | |
| **HZ** | 60 | **PH** | 3 | **CL** | B | | |
| **SER.F.** | 1.25 | **DES** | B | **CODE** | L | | |
| **NEMA-NOM-EFF** | 75.5 | **PF** | 78 | | | | |
| **RATING** | 40C AMB-CONT | | | | | | |
| **CC** | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | |
| **SER. #** | | | | | | | |
| | SFA 3.2/1.6 | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA007282 | SA 33-1922W274 | 1.000 ea |
| RA003729 | RA 33-1922W274 | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 34CB3002A64 | CB W/.69 DIA @ 6 | 1.000 ea |
| 34GS1029A01 | GASKET, CONDUIT BOX | 1.000 ea |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 33EP3100A01 | EP,33AC ODE GP 6203 TEFC W/DRAIN | 1.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 33EP1300A35 | PU EP, ENCL FACE MTD IEC D71C FOR SEAL | 1.000 ea |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 ea |
| 33FN3000 | EXTERNAL FAN, PLASTIC | 1.000 ea |
| HW1003A08 | WASHER, #8 EX TH LK, ZN (F/S) | 1.000 ea |
| 33FH4000A01 | FAN COVER, STAMPED | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 34CB4517 | CB LID 4 MTG HOLES .22 DIA STAMPED, FOR | 1.000 ea |
| 34GS1031A01 | GASKET, FLAT CONDUIT BOX LID (LEXIDE) | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW2504D08 | KEY, 5 MM X .875 | 1.000 ea |
| HA7000A10 | KEY RETAINER 0.563 DIA SHAFTS | 1.000 ea |
| HW4600A50 | SEAL,#6806 C-R .669X1.25 X.25 SNG LIP NO | 1.000 ea |
| MJ5001A27 | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL | 0.001 qt |
| MG1050G01 | CELEROL MEDIUM CHARCOAL METALLIC GRAY | 0.013 ga |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| HA3100A37 | THRUBOLT 10-32 X 8.500 | 2.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 ea |
| NP1379L | ALUM IEC UL CC | 1.000 ea |
| 34PA1002 | PKG GRP, PRINT PK1001A02 | 1.000 ea |

**AC Induction Motor Performance Data**
Record # 58394
Typical performance - not guaranteed values

| **Winding:** 33WGW274-R001 | **Type:** 3328M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .75 | **Full Load Torque** | 1.134 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 2.8/1.4 | **Breakdown Torque** | 6.7 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 4.4 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 5.9 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 10 A |
| **Service Factor (S.F.)** | | | 1.25 | **No-load Current** | 0.66 A |
| **NEMA Nom. Eff.** | 75.5 | **Power Factor** | 78 | **Line-line Res. @ 25ºC** | 16.4 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | |
| **S.F. Amps** | | | 3.2/1.6 | **Temp. Rise @ S.F. Load** | |

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 42 | 60 | 72 | 80 | 85 | 88 | 85 |
| **Efficiency** | 58.7 | 72.2 | 77.7 | 80.1 | 81.1 | 81.4 | 81.1 |
| **Speed** | 3565 | 3537 | 3507 | 3476 | 3444 | 3409 | 3444 |
| **Line amperes** | 0.71 | 0.81 | 0.94 | 1.1 | 1.28 | 1.48 | 1.28 |

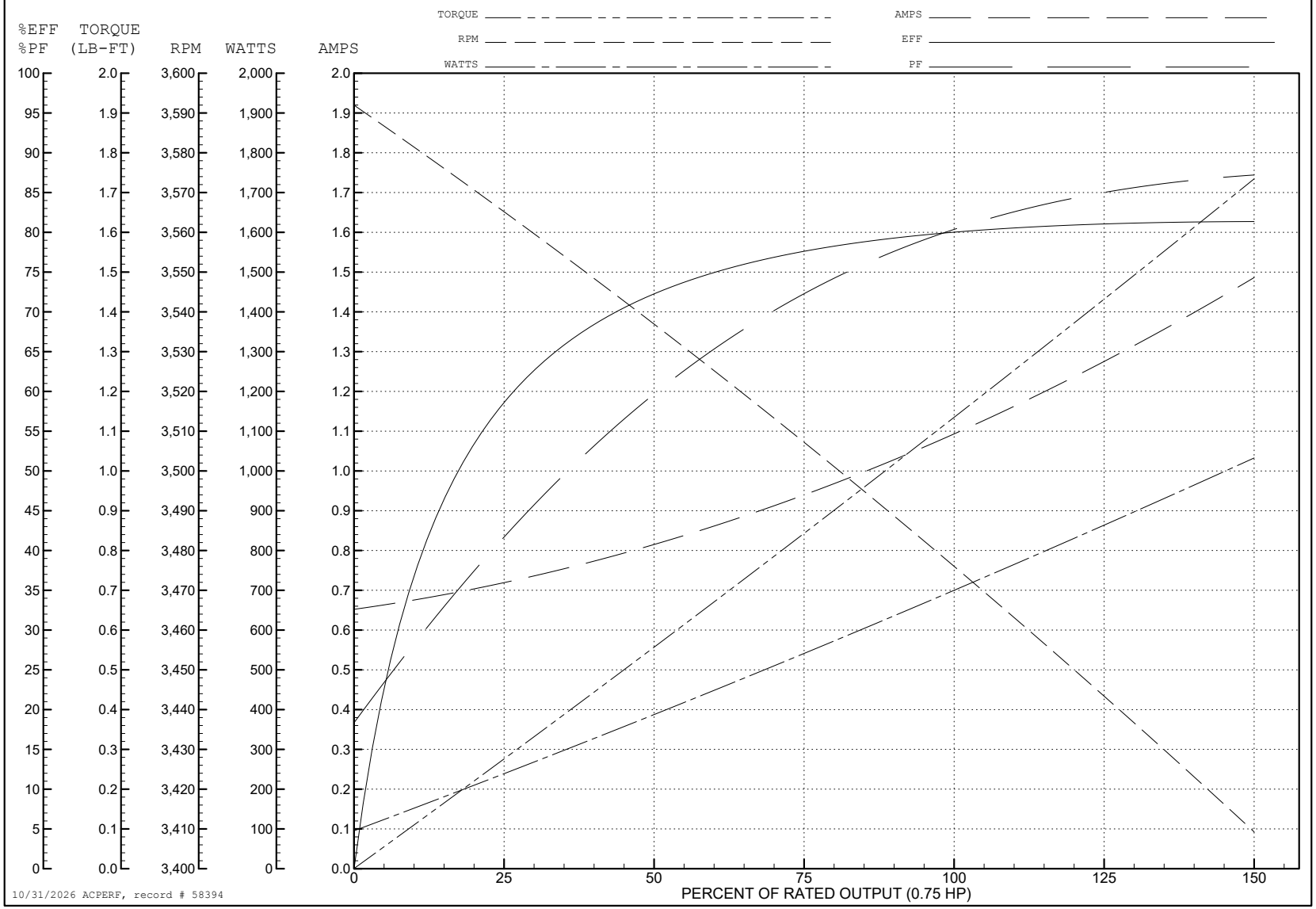
ABB Motors and Mechanical Inc.

WINDING # 33WGW274

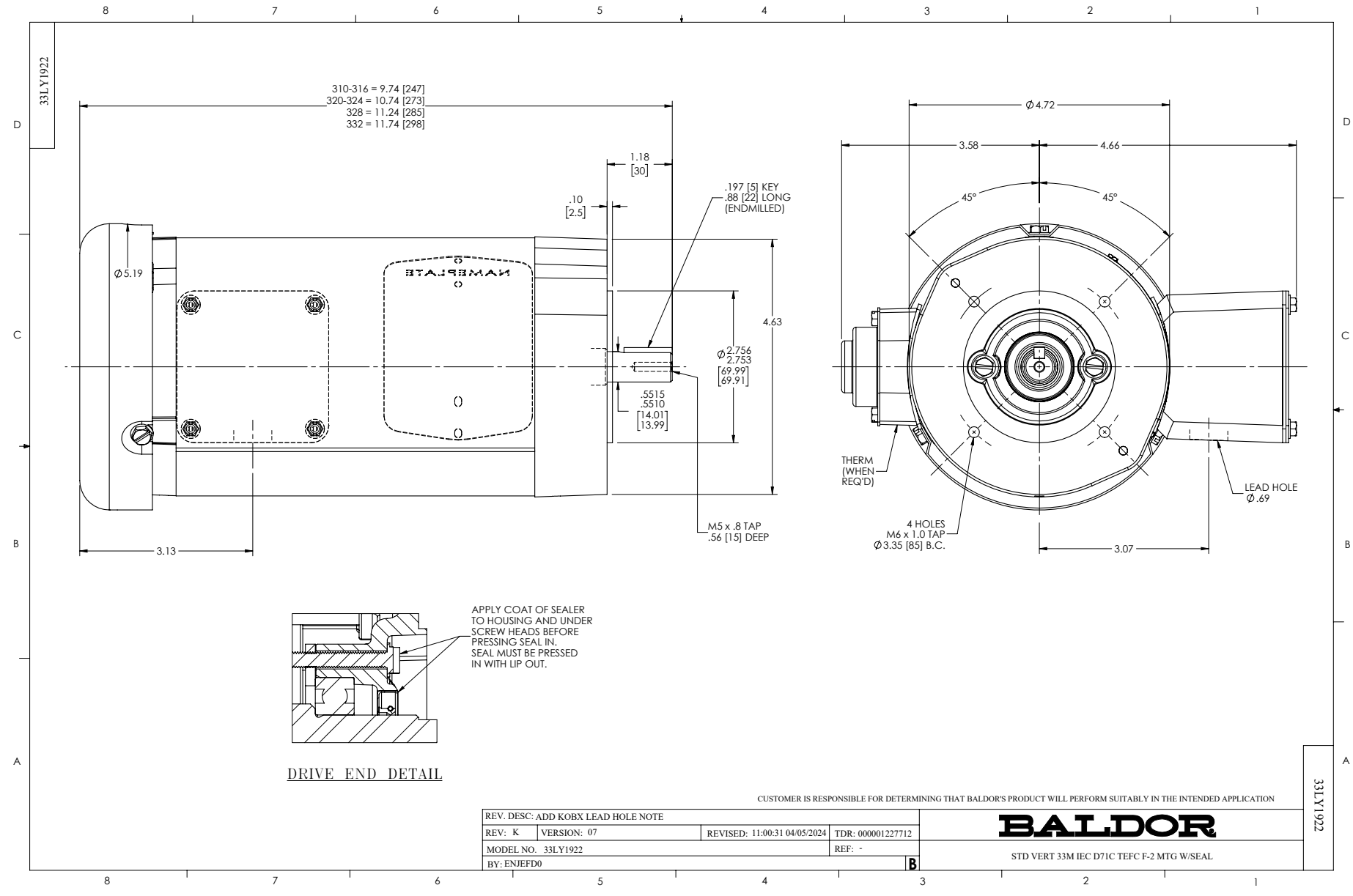
0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3328M

Typical performance - not guaranteed values.

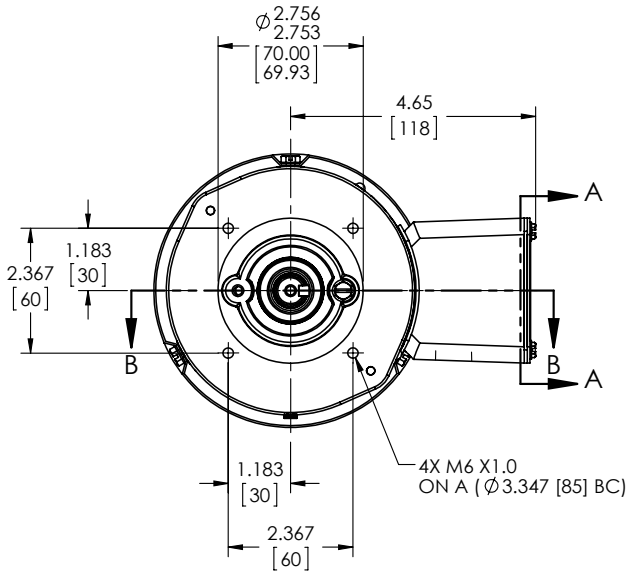
TORQUES(LB-FT): PO=6.7 PU=4.4 LR=5.9 LRA=10

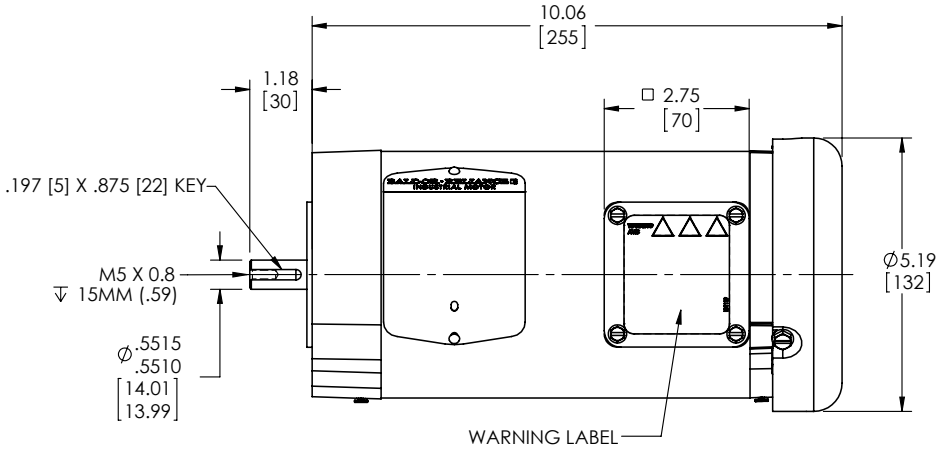


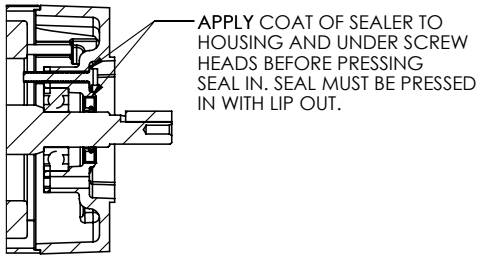

10/31/2026 ACPERF, record # 58394


33LY1922
310-316 = 9.74 [247]
320-324 = 10.74 [273]
328 = 11.24 [285]
332 = 11.74 [298]
1.18
[30]
.10
[2.5]
.197 [5] KEY
.88 [22] LONG
(ENDMILLED)
Ø5.19
4.63
Ø2.756
2.753
[69.99]
[69.91]
.5515
.5510
[14.01]
[13.99]
M5 x .8 TAP
.56 [15] DEEP
3.13
Ø4.72
3.58
4.66
45°
45°
THERM
(WHEN
REQ'D)
LEAD HOLE
Ø.69
4 HOLES
M6 x 1.0 TAP
Ø3.35 [85] B.C.
3.07
APPLY COAT OF SEALER
TO HOUSING AND UNDER
SCREW HEADS BEFORE
PRESSING SEAL IN.
SEAL MUST BE PRESSED
IN WITH LIP OUT.
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD KOBX LEAD HOLE NOTE
REV: K
VERSION: 07
REVISED: 11:00:31 04/05/2024
TDR: 000001227712
MODEL NO. 33LY1922
REF: -
BY: ENJEFD0
B
BALDOR
STD VERT 33M IEC D71C TEFC F-2 MTG W/SEAL
33LY1922

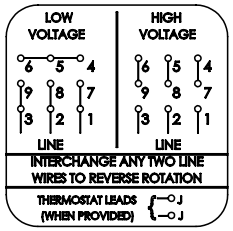
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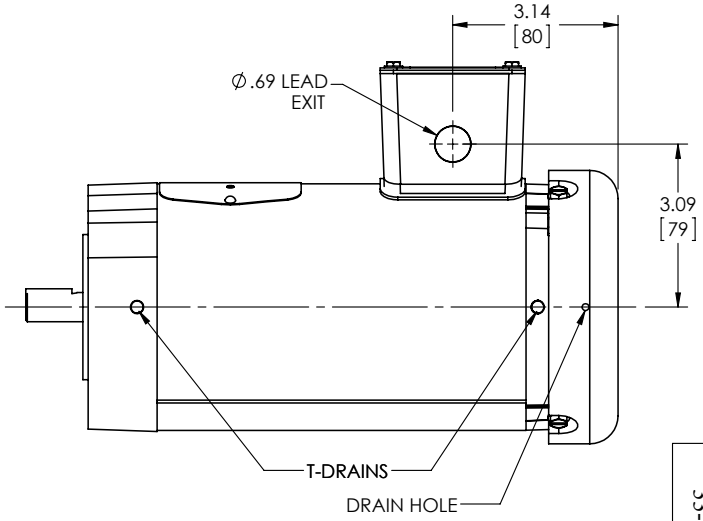




SECTION B-B




SECTION A-A



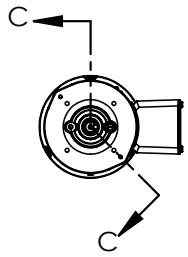

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

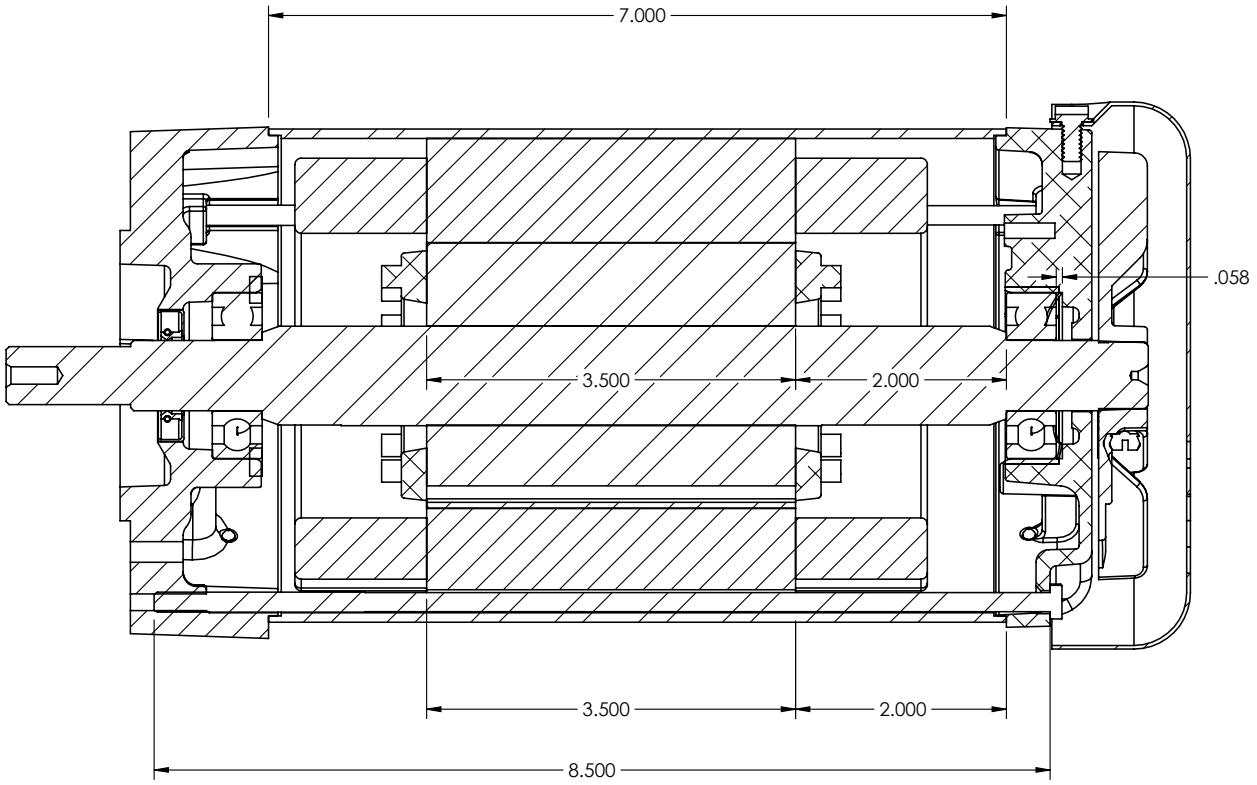
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| 33-1922W274 | MODEL NO. 33-1922W274 | | REF: - |
| | BY: CKPHIW0 | | LY,33AC MTR IEC RSB TEFC D71C |

BALDOR

33-1922W274

33-1922W274




SECTION C-C

33-1922W274

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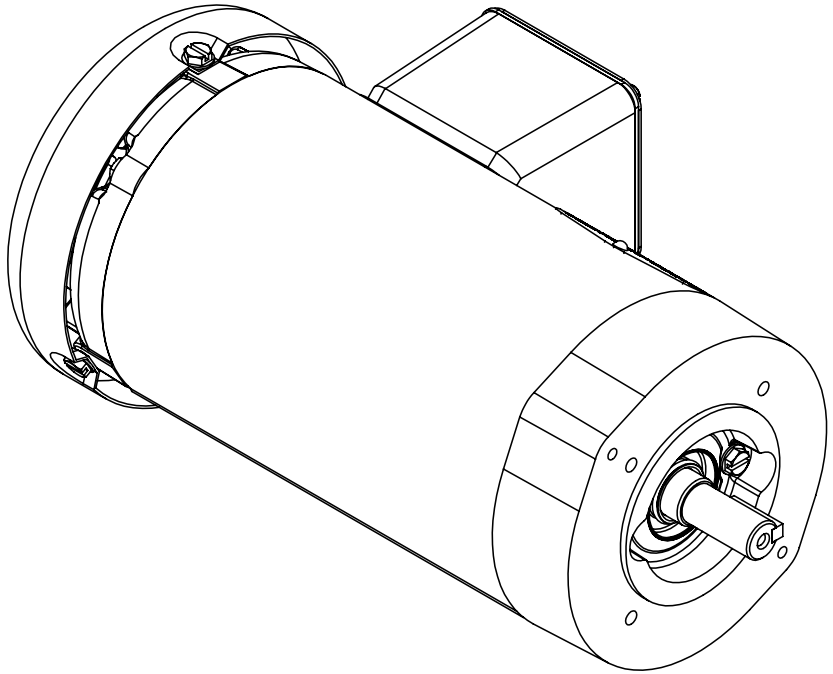
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| 33-1922W274 | MODEL NO. 33-1922W274 | | REF: - |
| | BY: CKPHIW0 | | |

BALDOR

LY,33AC MTR IEC RSB TEFC D71C

| ITEM NO. | PART NUMBER | QTY. |
|---|---|---|
| 1 | 33EP1300A35 | 1 |
| 2 | BG6203C03 | 2 |
| 3 | RB4003A01 | 1 |
| 4 | HW4600A50 | 1 |
| 5 | HA4067A01 | 2 |
| 6 | 33SH1085C01 | 1 |
| 7 | 33RC4128-00 | 1 |
| 8 | 33SA9200C16 | 1 |
| 9 | NS2512A01 | 1 |
| 10 | 34GS1029A01 | 1 |
| 11 | 34CB3002C | 1 |
| 12 | 51XB1016A07 | 2 |
| 13 | 11XW1032G06 | 1 |
| 14 | 34GS1031A01 | 1 |
| 15 | 34CB4517 | 1 |
| 16 | 51XT0832A07 | 4 |
| 17 | 33EP3100A01 | 1 |
| 18 | HW5109A05 | 1 |
| 19 | HA3100A37 | 2 |
| 20 | 51XN1032A16 | 1 |
| 21 | 33FN3000 | 1 |
| 22 | 12XN0832A16 | 1 |
| 23 | HW1003A08 | 1 |
| 24 | XY0832A02 | 1 |
| 25 | 33FH4000A01 | 1 |
| 26 | 51XB1016A06 | 3 |
| 27 | HW2504D08 | 1 |
| 28 | NP1379L | 1 |
| 29 | 85XU0407A04 | 2 |
| 30 | LC0005 | 1 |
| 31 | LB1119 | 1 |

33-1922W274



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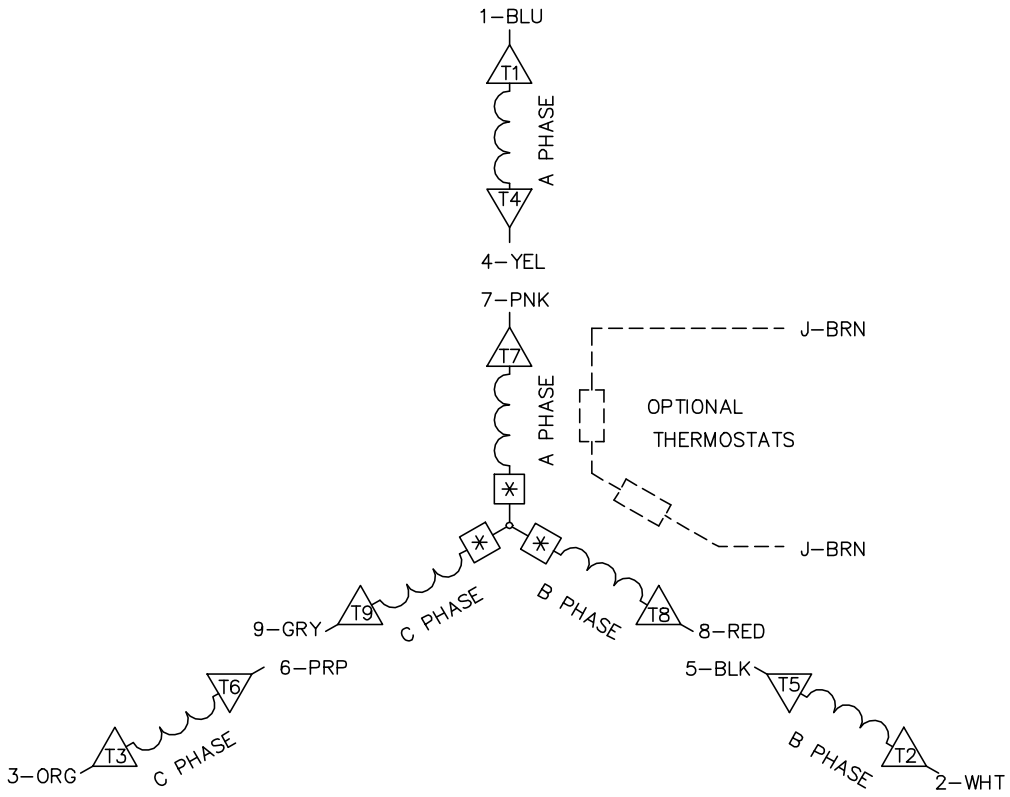
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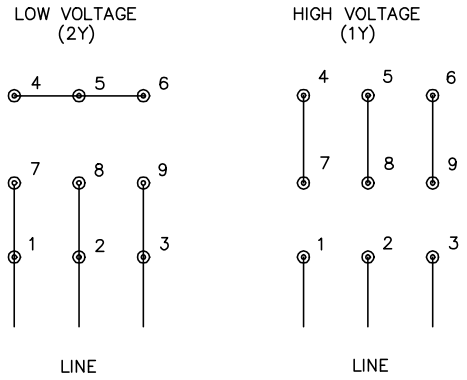
BALDOR

LY,33AC MTR IEC RSB TEFC D71C

33-1922W274

CD0005A05




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.
5. (#) =MAGNET WIRE COIL END WITH I.D. NUMBER.
6. [*] =MAGNET WIRE COIL END WITH I.D. SYMBOL.
7. SEE CW PRINT FOR NEST TO NEST CROSSOVER CONNECTIONS.

CD0005A05

| | | | |
|---|---|---|---|
| REV. DESC: ADD NEST NOTE | | | BALDOR • DODGE • RELIANCE |
| REV. LTR: C | VERSION: 03 | TDR: 000000445597 | |
| CD0005A05 | FILE: \CKA\00024\847 | REVISED: 12:51:06 11/15/2007 | 3PH, DV, 9 LEADS, CK |
| | MTL: – | BY: CKMICRO | |