ABB BALDOR RELIANCE

# Customer information packet

## VEM7044T-I

5 55C AMB @ 1.0SFHP, 1750 75C RISERPM, 3
Class - CLI GP C,D
Division - Division I


8/19/2026 6:49:43 PM

## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 184TC |
| **Frame Material** | Steel |
| **Frequency** | 50.00 Hz |
| | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP C,D |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 3.000 HP @ 50 HZ |
| | 5.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 380.0 V @ 50 HZ |
| | 230.0 V @ 60 HZ |
| | 190.0 V @ 50 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | 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** | 5.200 A @ 380.0 V |
| | 6.500 A @ 460.0 V |
| | 13.600 A @ 208.0 V |
| | 13.000 A @ 230.0 V |
| | 10.400 A @ 190.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |

## Part Detail

| | |
|---|---|
| **Revision** | G |
| **Type** | AC |
| **Mech. spec.** | 36M654 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGT031 |
| **Layout** | 36LYM654 |
| **Eff. date** | 02-21-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 10-12-2015 |

| | |
|---|---|
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 5.2 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | K |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3644M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 20.84 IN |
| **Power Factor** | 80 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |

| | |
|---|---|
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1450 rpm |
| | 1750 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP0977XPSLEV | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | | | | | | **CC** | 010A | | | | |
| **SER.** | | | | | | **TEMP CODE** | T3C | | | | |
| **SPEC.** | 36M654T031G3 | | | | | | | | | | |
| **CAT.NO.** | VEM7044T-I | | | | | | | | | | |
| **HP** | 5//3 55C AMB @ 1.0SF | | | | | | | | | | |
| **VOLTS** | 230/460//190/380 | | | | | | | | | | |
| **AMPS** | 13/6.5//10.4/5.2 | | | | | | | | | | |
| **RPM** | 1750//1450 75C RISE | | | | **MOTOR WEIGHT** | | 115 | | | | |
| **HERTZ** | 60//50 | **PH** | 3 | **CL** | F | **DE BRG** | 6206 | | | | |
| **SER.F.** | 1.15 | **DES** | B | **CODE** | K | **ODE BRG** | 6205 | | | | |
| **FRAME** | 184TC | **GREASE** | POLYREX EM | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| | | | | **NEMA-NOM-EFF** | | | 89.5 | **PF** | 80 | | |
| | NEMA MG-1 PT 5,IP55 | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 32376
Typical performance - not guaranteed values

| **Winding:** 36WGT031-R071 | **Type:** 3644M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5//3 | **Full Load Torque** | 15.1 LB-FT |
| **Volts** | | | 230/460//190/380 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 13/6.5//10.4/5.2 | **Breakdown Torque** | 59.57 LB-FT |
| **R.P.M.** | | | 1750//1450 | **Pull-up Torque** | 25.39 LB-FT |
| **Hz** | 60//50 | **Phase** | 3 | **Locked-rotor Torque** | 38.53 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 54.47 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.32 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 80 | **Line-line Res. @ 25ºC** | 2.26 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 54°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 65°C |
| | | | | **Locked-rotor Power Factor** | 51.7 |
| | | | | **Rotor inertia** | 0.409 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 39 | 61 | 73 | 80 | 84 | 86 | 82 |
| **Efficiency** | 84.8 | 89.6 | 90.3 | 90.2 | 88.9 | 87.7 | 90 |
| **Speed** | 1790 | 1779 | 1767 | 1755 | 1742 | 1725 | 1746 |
| **Line amperes** | 3.62 | 4.36 | 5.37 | 6.55 | 7.9 | 9.67 | 7.3 |

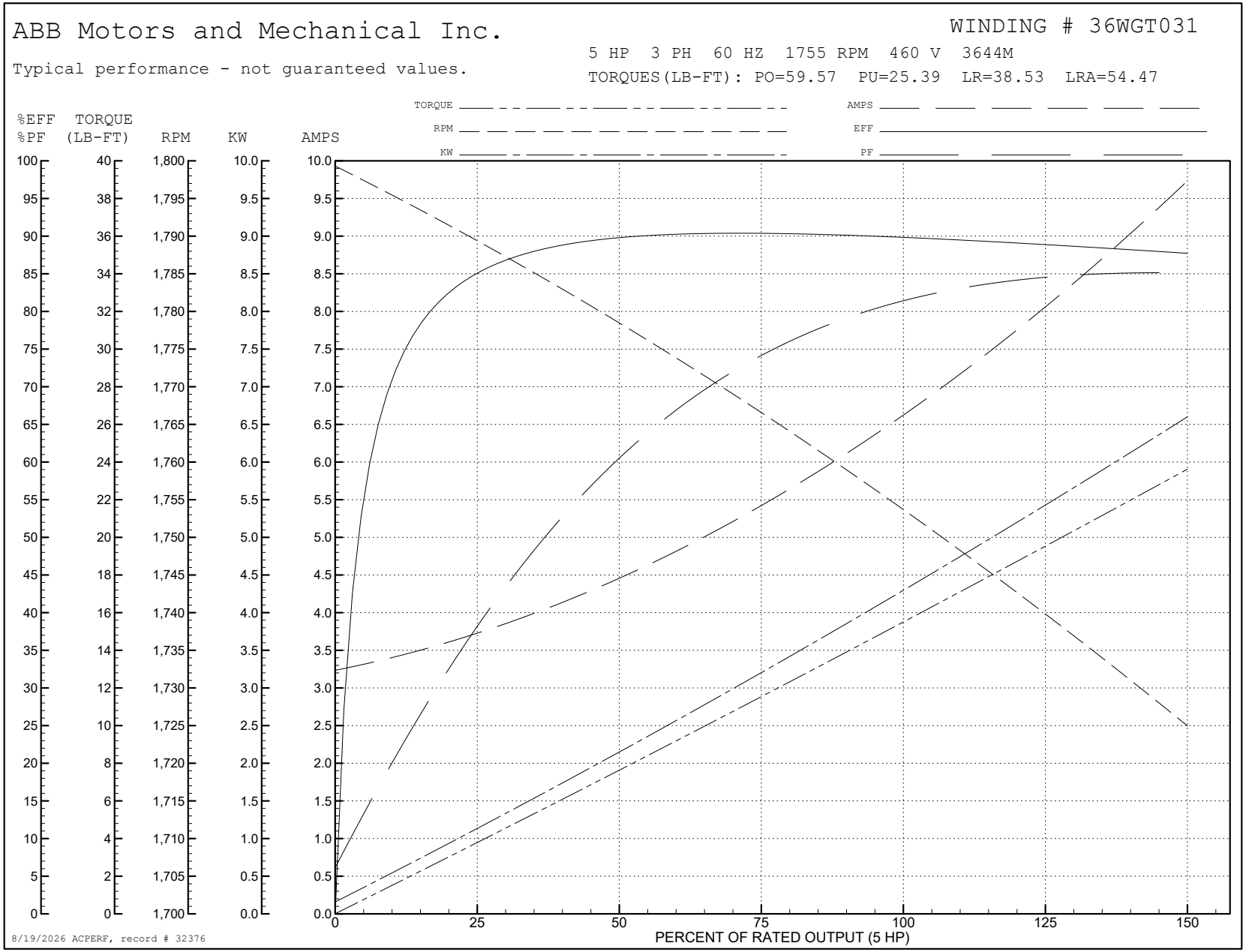


ABB Motors and Mechanical Inc.
WINDING # 36WGT031
Typical performance - not guaranteed values.
5 HP 3 PH 60 HZ 1755 RPM 460 V 3644M
TORQUES(LB-FT): PO=59.57 PU=25.39 LR=38.53 LRA=54.47
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
8/19/2026 ACPERF, record # 32376

**AC Induction Motor Performance Data**
Record # 38923
Typical performance - not guaranteed values

| **Winding:** 36WGT031-R071 | **Type:** 3644M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | |
|---|---|---|---|
| **Rated Output (HP)** | | | 5//3 |
| **Volts** | | | 230/460//190/380 |
| **Full Load Amps** | | | 13/6.5//10.4/5.2 |
| **R.P.M.** | | | 1750//1450 |
| **Hz** | 60//50 | **Phase** | 3 |
| **NEMA Design Code** | B | **KVA Code** | K |
| **Service Factor (S.F.)** | | | 1.15 |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 80 |
| **Rating - Duty** | | | 40C AMB-CONT |
| **S.F. Amps** | | | |

| **380 V, 50 Hz: High Voltage Connection** | |
|---|---|
| **Full Load Torque** | 10.84 LB-FT |
| **Start Configuration** | direct on line |
| **Breakdown Torque** | 55.83 LB-FT |
| **Pull-up Torque** | 25.63 LB-FT |
| **Locked-rotor Torque** | 38.89 LB-FT |
| **Starting Current** | 51.63 A |
| **No-load Current** | 3.28 A |
| **Line-line Res. @ 25ºC** | 2.26 Ω |
| **Temp. Rise @ Rated Load** | 38°C |
| **Temp. Rise @ S.F. Load** | 44°C |
| **Locked-rotor Power Factor** | 57.1 |
| **Rotor inertia** | 0.409 LB-FT2 |

**Load Characteristics 380 V, 50 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 31 | 51 | 64 | 73 | 78 | 82 | 76 |
| **Efficiency** | 81 | 87.8 | 89.3 | 89.7 | 88.7 | 87.9 | 89.2 |
| **Speed** | 1492 | 1484 | 1475 | 1467 | 1457 | 1444 | 1467 |
| **Line amperes** | 3.46 | 3.9 | 4.52 | 5.26 | 6.15 | 7.34 | 5.8 |

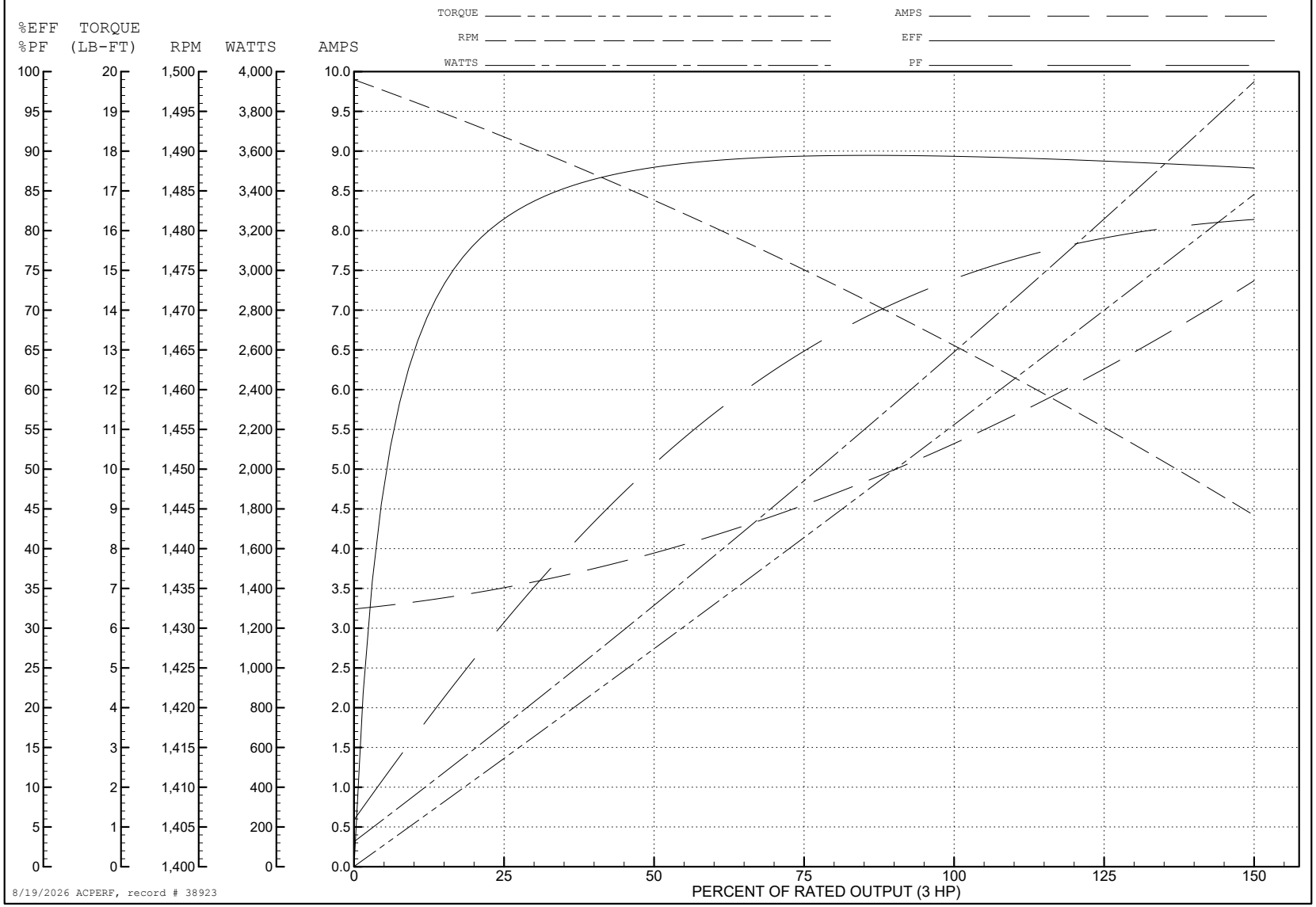
ABB Motors and Mechanical Inc.

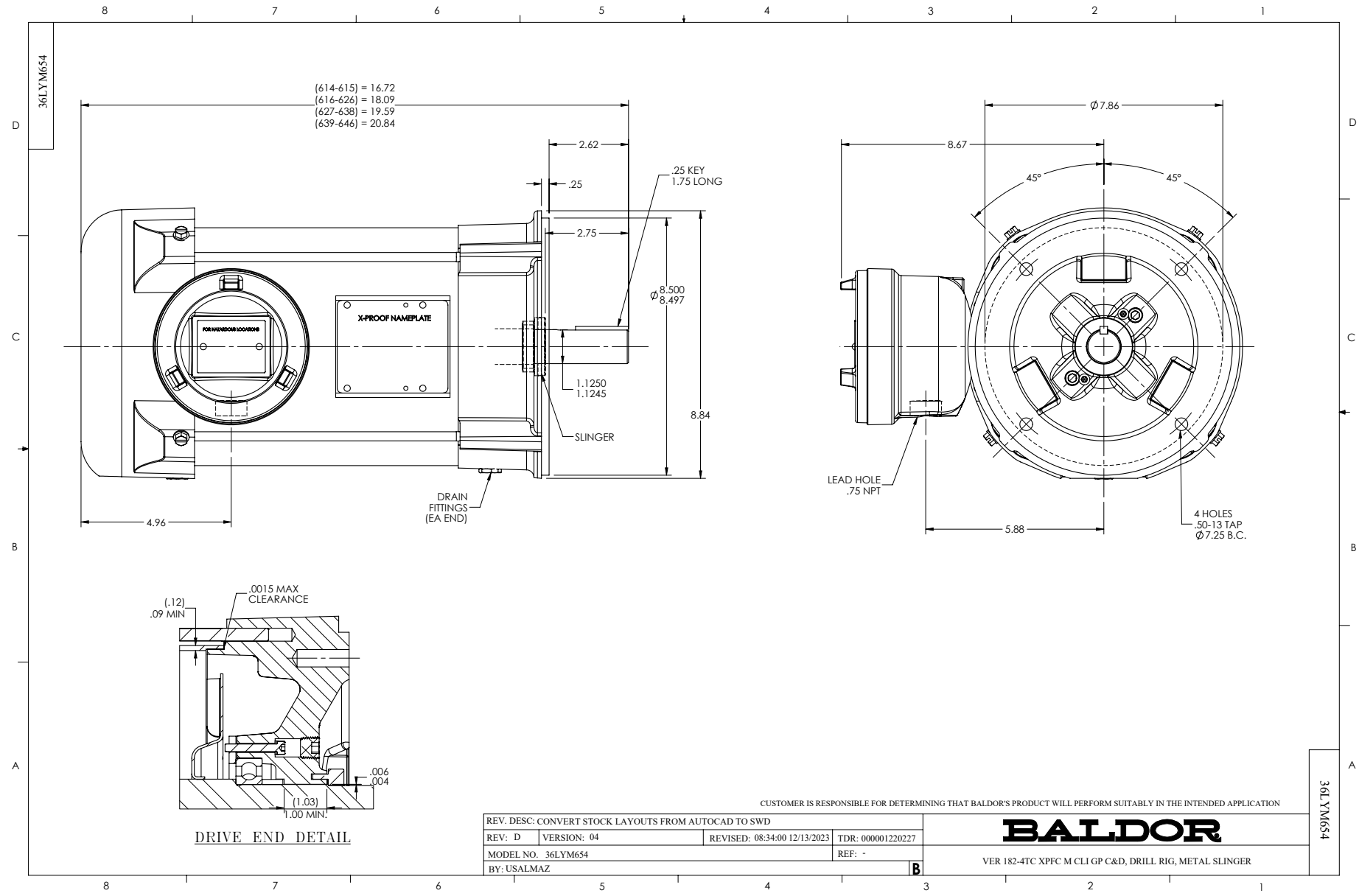
WINDING # 36WGT031

3 HP 3 PH 50 HZ 1467 RPM 380 V 3644M

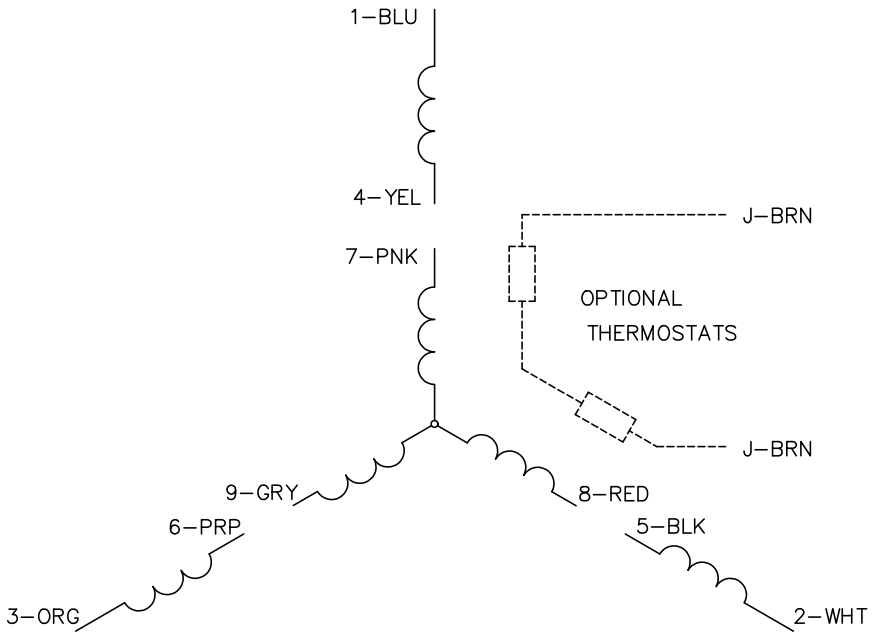
Typical performance - not guaranteed values.

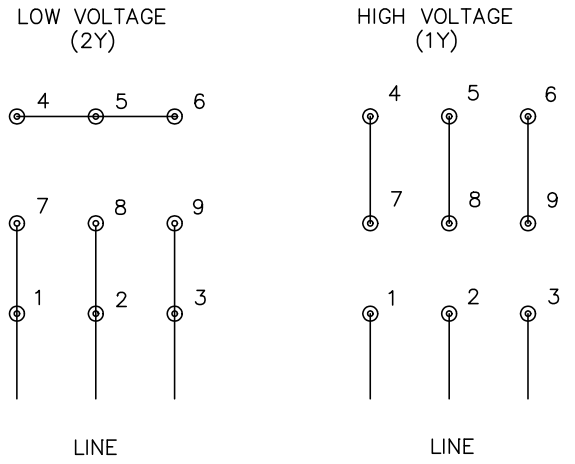
TORQUES(LB-FT): PO=55.83 PU=25.63 LR=38.89 LRA=51.63




36LYM654
(614-615) = 16.72
(616-626) = 18.09
(627-638) = 19.59
(639-646) = 20.84
2.62
.25
.25 KEY
1.75 LONG
2.75
Ø 8.500
8.497
8.84
1.1250
1.1245
SLINGER
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
DRAIN
FITTINGS
(EA END)
4.96
Ø7.86
8.67
45°
45°
LEAD HOLE
.75 NPT
4 HOLES
.50-13 TAP
Ø7.25 B.C.
5.88
.0015 MAX
CLEARANCE
(.12)
.09 MIN
.006
.004
(1.03)
1.00 MIN.
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: D
VERSION: 04
REVISED: 08:34:00 12/13/2023
TDR: 000001220227
MODEL NO. 36LYM654
REF: -
BY: USALMAZ
B
BALDOR
VER 182-4TC XPFC M CLI GP C&D, DRILL RIG, METAL SLINGER
36LYM654

CD0005




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.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |