ABB BALDOR RELIANCE

# Customer information packet

## VEM3610T

3HP, 3450RPM, 3PH, 60HZ, 3532M, N
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 182TC |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | NEMA PREMIUM |
| | CURUSEEV |
| **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** | 3.600 A @ 460.0 V |
| | 7.200 A @ 230.0 V |
| | 7.900 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 86.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | V |
| **Type** | AC |
| **Mech. spec.** | 35L114 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 35WGQ060 |
| **Layout** | 35LYL114 |
| **Eff. date** | 01-05-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 10-23-2012 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 3.6 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **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** | NEMA |
| **Motor Type** | 3532M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 15.18 IN |
| **Power Factor** | 92 |
| **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** | 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**

| NP3441LUA | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VEM3610T | | | | | | | | |
| **SPEC** | 35L114Q060G1 | | | | | | | | |
| **HP** | 3 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMPS** | 7.2/3.6 | | | | | | | | |
| **RPM** | 3450 | | | | | | | | |
| **FRAME** | 182TC | **HZ** | 60 | | | **PH** | 3 | | |
| **SF** | 1.15 | **CODE** | L | **DES** | B | **CLASS** | F | | |
| **NEMA NOM. EFF** | 86.5 | **PF** | 92 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | |
| **DE** | 6206 | **ODE** | 6203 | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | |
| | 50Hz 3HP 190/380V 8.8/4.4A | | | | | | | | SF1.0 |

**AC Induction Motor Performance Data**
Record # 50261
Typical performance - not guaranteed values

| **Winding:** 35WGQ060-R002 | **Type:** 3532M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 4.5 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.2/3.6 | **Breakdown Torque** | 18 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 11 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 16 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 33 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.2 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 92 | **Line-line Res. @ 25ºC** | 4.72 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 61°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 76°C |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 62 | 81 | 88 | 92 | 93 | 94 | 93 |
| **Efficiency** | 83.7 | 87.9 | 88.2 | 87.2 | 85.6 | 83.5 | 86.2 |
| **Speed** | 3562 | 3531 | 3498 | 3462 | 3421 | 3375 | 3437 |
| **Line amperes** | 1.5 | 2.1 | 2.8 | 3.6 | 4.5 | 5.4 | 4.1 |

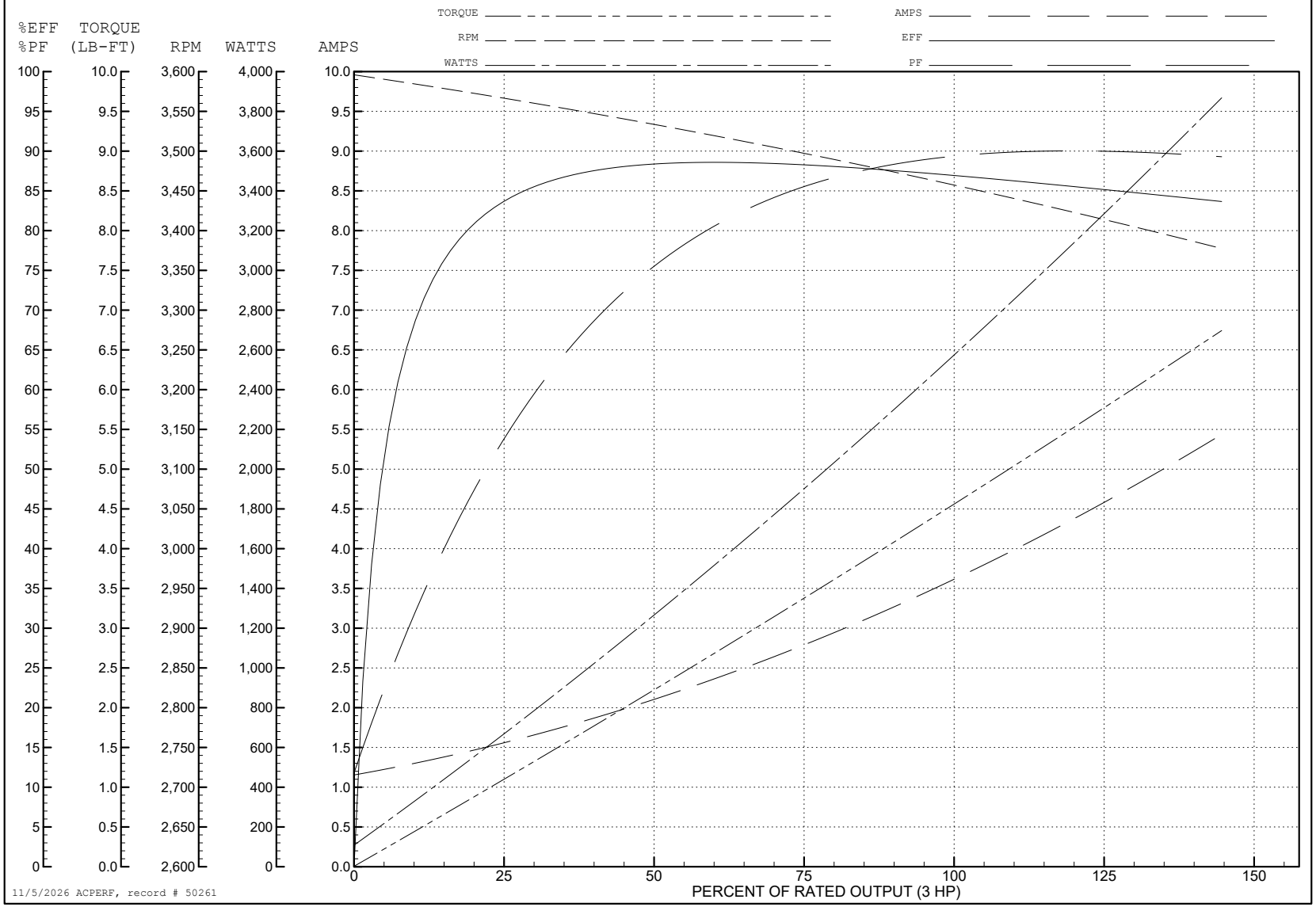
ABB Motors and Mechanical Inc.

WINDING # 35WGQ060

3 HP 3 PH 60 HZ 3450 RPM 460 V 3532M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=18 PU=11 LR=16 LRA=33



**AC Induction Motor Performance Data**
Record # 59171
Typical performance - not guaranteed values

| **Winding:** 35WGQ060-R002 | **Type:** 3532M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: Low Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3 | **Full Load Torque** | 4.5 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.2/3.6 | **Breakdown Torque** | 18 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 11 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 16 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 66 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.4 A |
| **NEMA Nom. Eff.** | 86.5 | **Power Factor** | 92 | **Line-line Res. @ 25ºC** | 1.17 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 61°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 73°C |
| | | | | **Locked-rotor Power Factor** | 47.1 |
| | | | | **Rotor inertia** | 0.0885 LB-FT2 |

**Load Characteristics 230 V, 60 Hz, 3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 57 | 77 | 85 | 88 | 89 | 90 | 89 |
| **Efficiency** | 84.1 | 87.9 | 88.4 | 87.2 | 85.7 | 83.5 | 86.3 |
| **Speed** | 3562 | 3531 | 3498 | 3462 | 3421 | 3375 | 3437 |
| **Line amperes** | 3 | 4.2 | 5.6 | 7.2 | 9 | 10.8 | 8.28 |

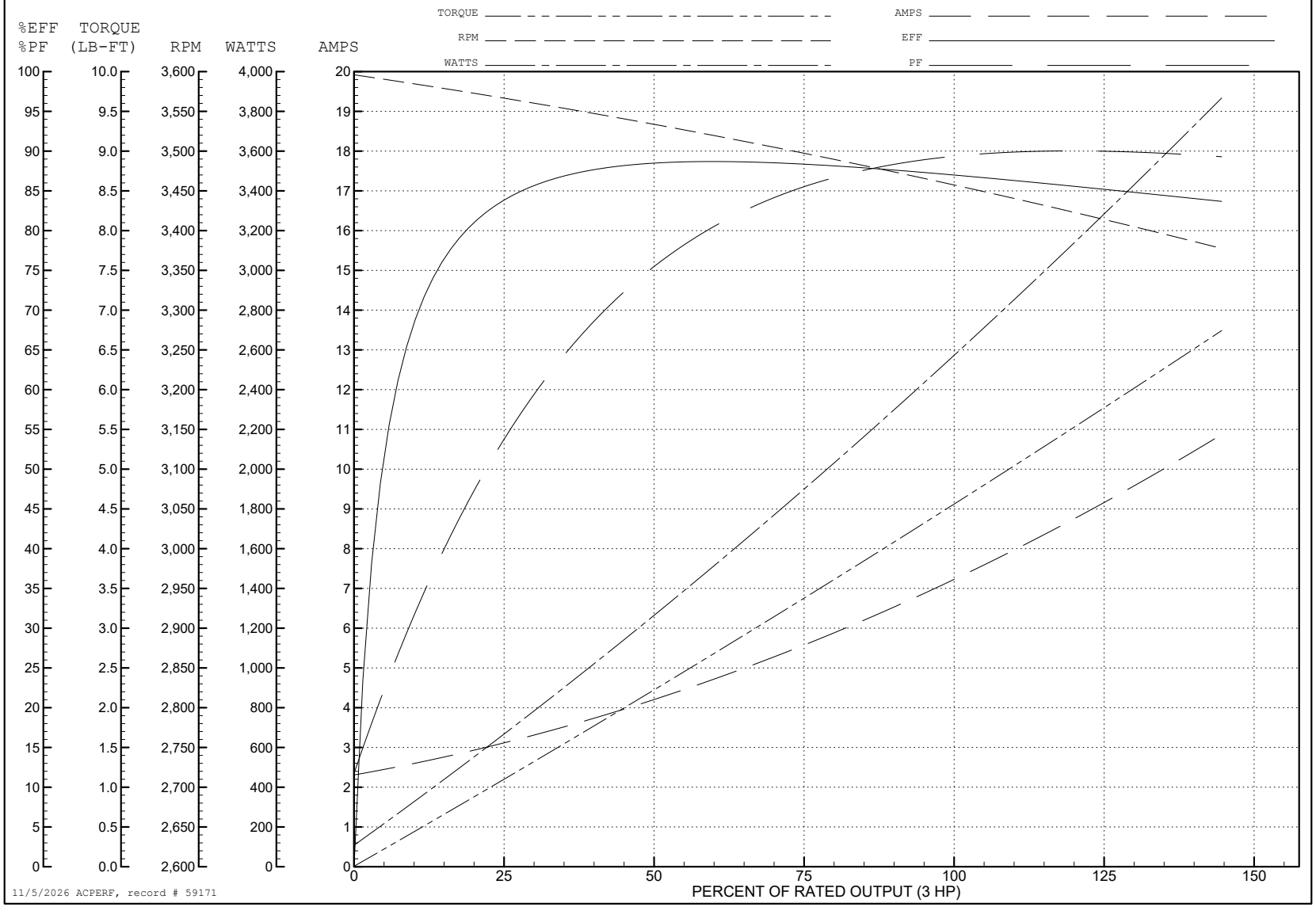
ABB Motors and Mechanical Inc.

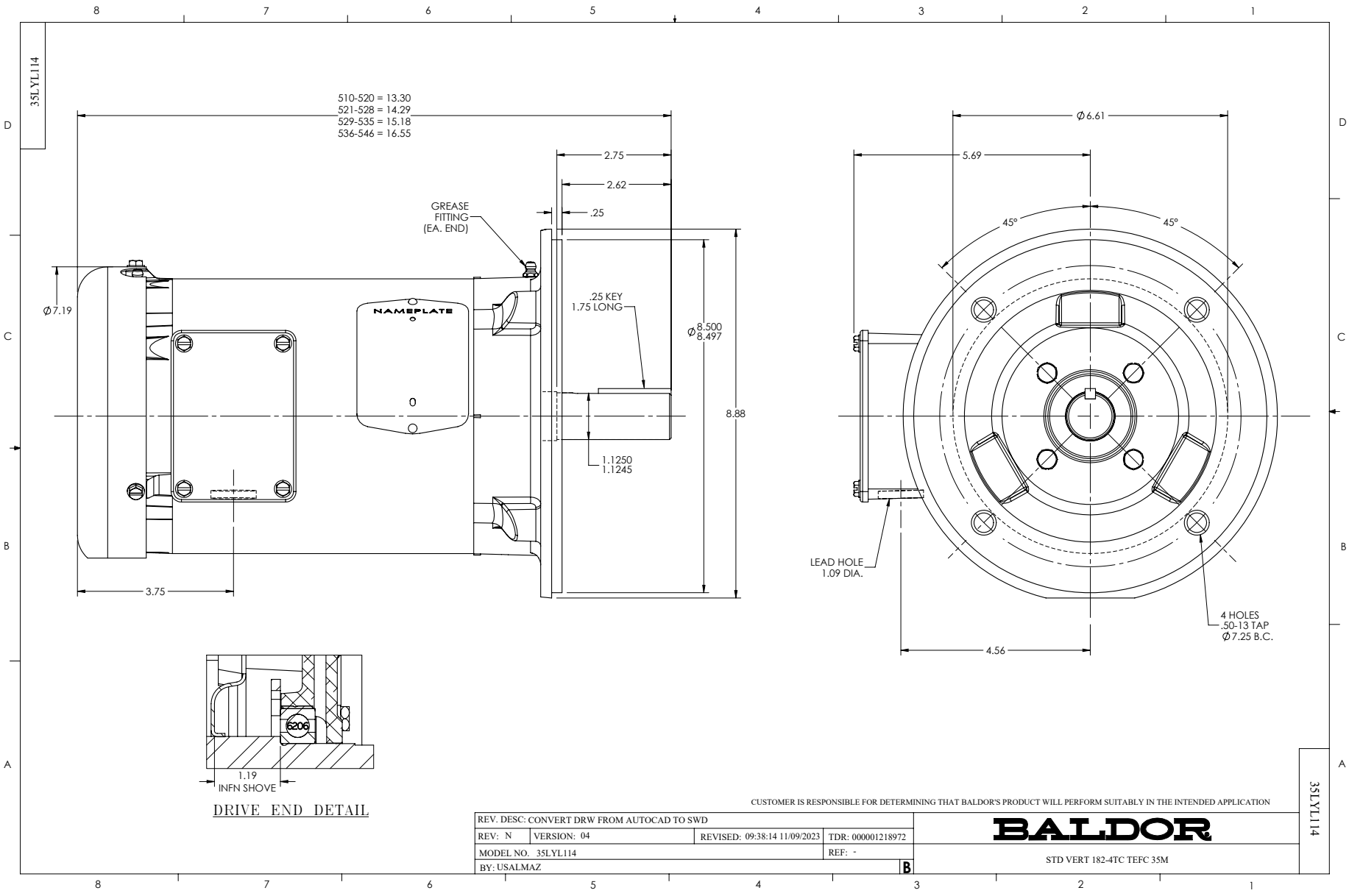
WINDING # 35WGQ060

3 HP 3 PH 60 HZ 3450 RPM 230 V 3532M

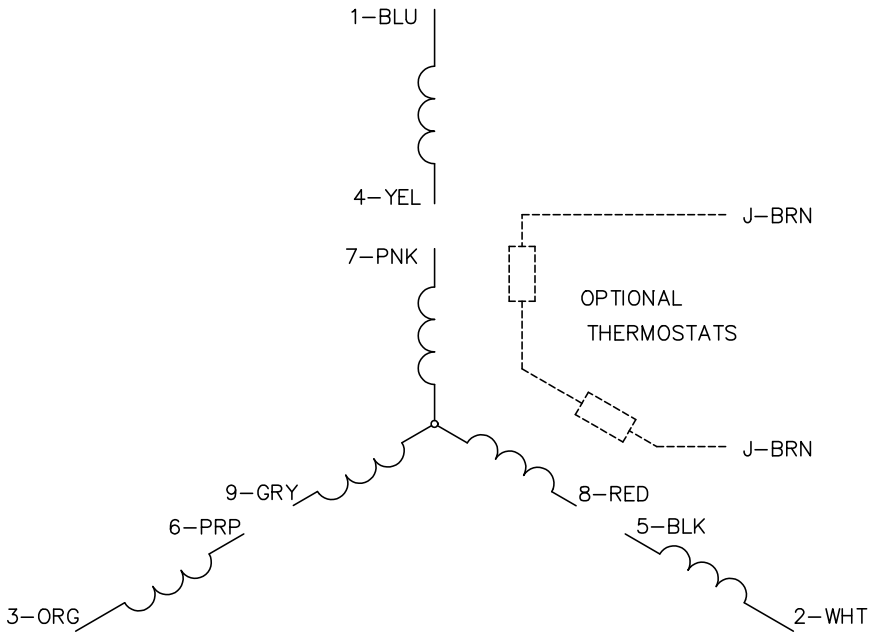
Typical performance - not guaranteed values.

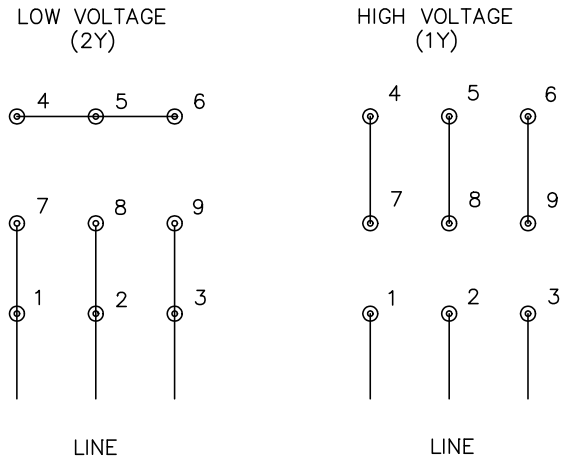
TORQUES(LB-FT): PO=18 PU=11 LR=16 LRA=66




35LYL114
510-520 = 13.30
521-528 = 14.29
529-535 = 15.18
536-546 = 16.55
2.75
2.62
.25
GREASE FITTING (EA. END)
Ø7.19
NAMEPLATE
.25 KEY
1.75 LONG
Ø8.500
8.497
8.88
1.1250
1.1245
3.75
Ø6.61
5.69
45°
45°
LEAD HOLE
1.09 DIA.
4 HOLES
.50-13 TAP
Ø7.25 B.C.
4.56
6206
1.19
INFN SHOVE
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT DRW FROM AUTOCAD TO SWD
REV: N
VERSION: 04
REVISED: 09:38:14 11/09/2023
TDR: 000001218972
MODEL NO. 35LYL114
REF: -
BY: USALMAZ
B
BALDOR
STD VERT 182-4TC TEFC 35M
35LYL114

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 |