BALDOR • RELIANCE

# Customer information packet

## M1523T

3/1.3HP, 1725/1140RPM, 3PH, 60HZ, 184T, 3634M
Class - None
Division - Not Applicable


8/10/2024 4:14:46 PM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184T |
| **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 |
| | 1.300 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 208.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **Ambient Temperature** | 40 °C |
| **Auxillary Box** | No Auxillary Box |
| **Auxillary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 5.100 A @ 230.0 V |
| | 8.000 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 5.1 a |

## Part detail

| | |
|---|---|
| **Revision** | AA |
| **Type** | AC |
| **Mech. spec.** | 36A001 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGW055 |
| **Layout** | 36LYA001 |
| **Eff. date** | 05-08-2024 |
| **CD Diagram** | CD0013 |
| **Poles** | 04/06 |
| **Leads** | 6#16 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | G |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 6 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3634M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| | 6 |
| **Overall Length** | 16.54 IN |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **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** | 1140 rpm |
| | 1725 rpm |
| **Speed Code** | 2S-2W-VT |
| **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**

| NP1256L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | M1523T | | | | | | | | | | |
| **SPEC.** | 36A01W55 | | | | | | | | | | |
| **HP** | 3/1.3 | | | | | | | | | | |
| **VOLTS** | 208-230 | | | | | | | | | | |
| **AMP** | 8/5.1 | | | | | | | | | | |
| **RPM** | 1725/1140 | | | | | | | | | | |
| **FRAME** | 184T | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | G | **DES** | B | **CLASS** | F | | | | |
| **NEMA-NOM-EFF** | | **PF** | | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | | | | | | | | | | | |
| **DE** | 6206 | | **ODE** | 6205 | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | | |
| | | | | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 36-3301 | C FACE KIT | A8 |
| 36EP1304A62SP | FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS | A8 |

**AC Induction Motor Performance Data**
Record # 37304
Typical performance - not guaranteed values

| **Winding:** 36WGW055-R004 | **Type:** 3634M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Speed Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3/1.3 | **Full Load Torque** | 9.2 LB-FT |
| **Volts** | | | 208-230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 8/5.1 | **Breakdown Torque** | 28 LB-FT |
| **R.P.M.** | | | 1725/1140 | **Pull-up Torque** | 13 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 19 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | G | **Starting Current** | 48 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3 A |
| **NEMA Nom. Eff.** | 0 | **Power Factor** | 0 | **Line-line Res. @ 25ºC** | 2.46 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 52°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 66°C |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 56 | 77 | 87 | 90 | 91 | 89 | 91 |
| **Efficiency** | 74.3 | 81.6 | 82.4 | 81.2 | 78.7 | 75.2 | 79.7 |
| **Speed** | 1781 | 1763 | 1742 | 1718 | 1690 | 1655 | 1701 |
| **Line amperes** | 3.5 | 4.6 | 6 | 7.7 | 9.7 | 12.1 | 8.9 |

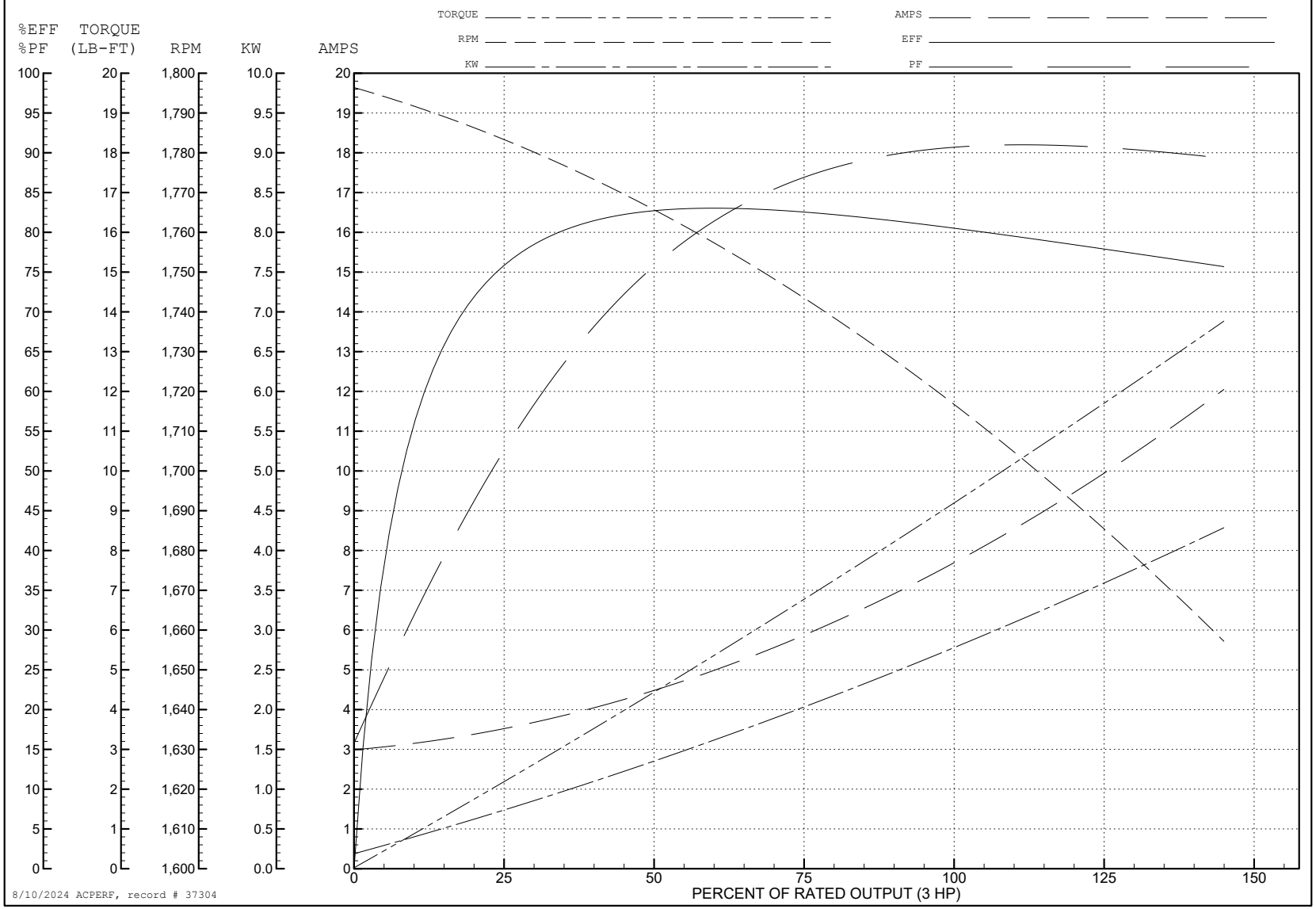
ABB Motors and Mechanical Inc.

WINDING # 36WGW055

3 HP 3 PH 60 HZ 1718 RPM 230 V 3634M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=28 PU=13 LR=19 LRA=48



**AC Induction Motor Performance Data**
Record # 37305
Typical performance - not guaranteed values

| **Winding:** 36WGW055-R004 | **Type:** 3634M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: Low Speed Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 3/1.3 | **Full Load Torque** | 5.9 LB-FT |
| **Volts** | | | 208-230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 8/5.1 | **Breakdown Torque** | 17 LB-FT |
| **R.P.M.** | | | 1725/1140 | **Pull-up Torque** | 9.2 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 10.3 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | G | **Starting Current** | 24 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 3.9 A |
| **NEMA Nom. Eff.** | 0 | **Power Factor** | 0 | **Line-line Res. @ 25ºC** | 4.41 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 41°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 47°C |

**Load Characteristics 230 V, 60 Hz, 1.3 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 30 | 44 | 57 | 65 | 72 | 77 | 69 |
| **Efficiency** | 52.5 | 66.9 | 72.8 | 75 | 75.6 | 74.9 | 75.4 |
| **Speed** | 1190 | 1181 | 1172 | 1161 | 1150 | 1137 | 1154 |
| **Line amperes** | 4 | 4.2 | 4.5 | 5 | 5.6 | 6.21 | 5.36 |

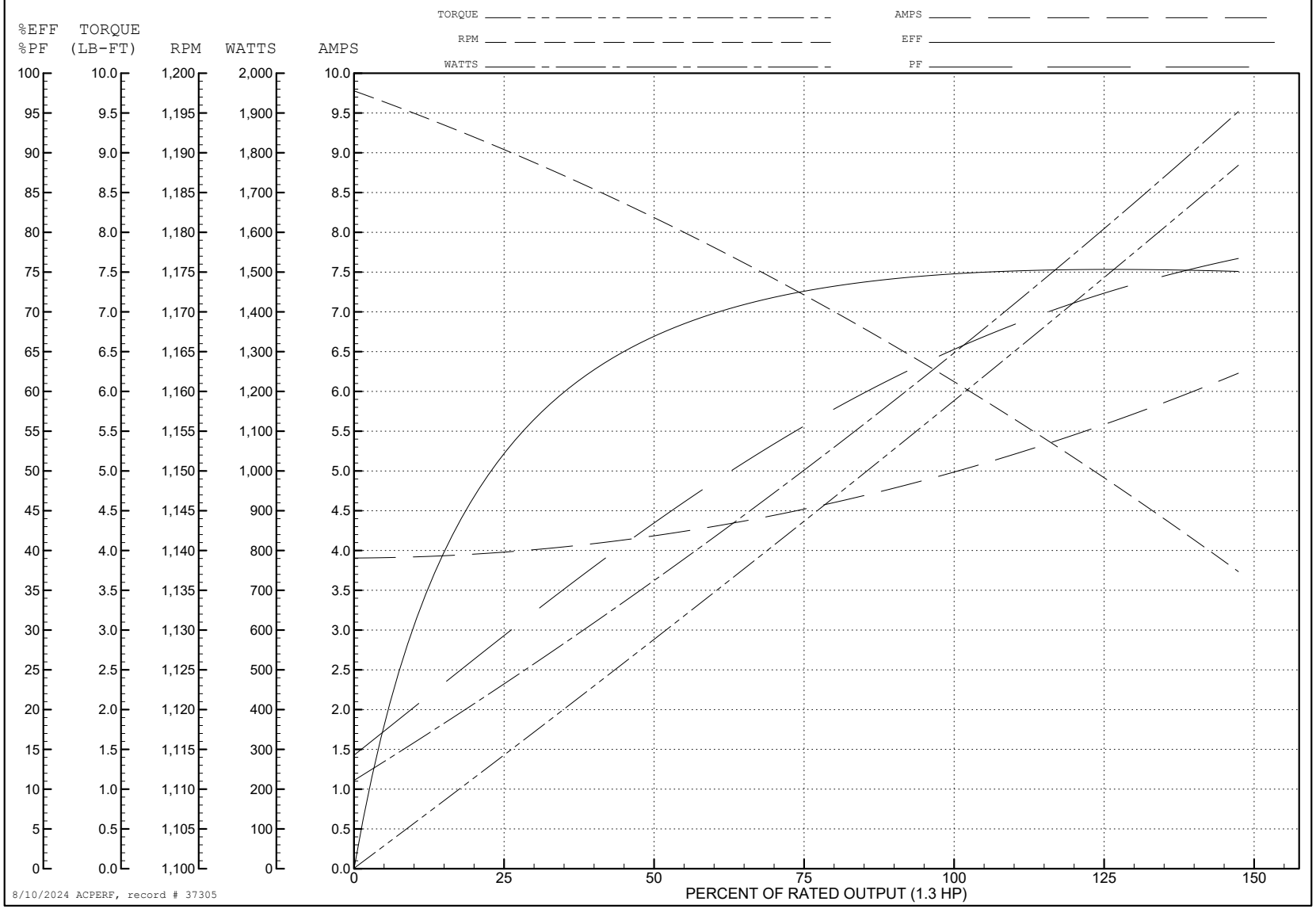
ABB Motors and Mechanical Inc.

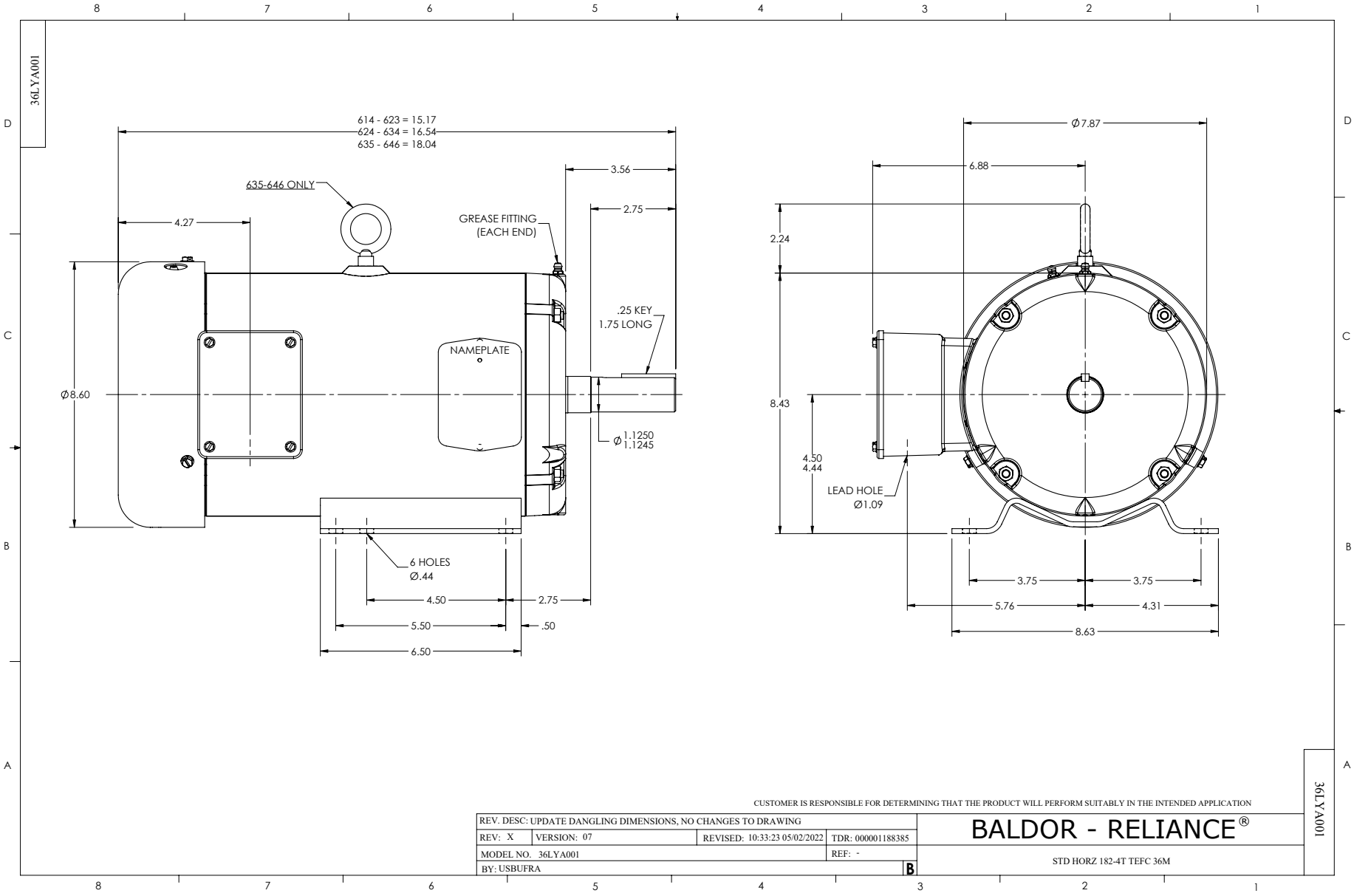
WINDING # 36WGW055

1.3 HP 3 PH 60 HZ 1161 RPM 230 V 3634M

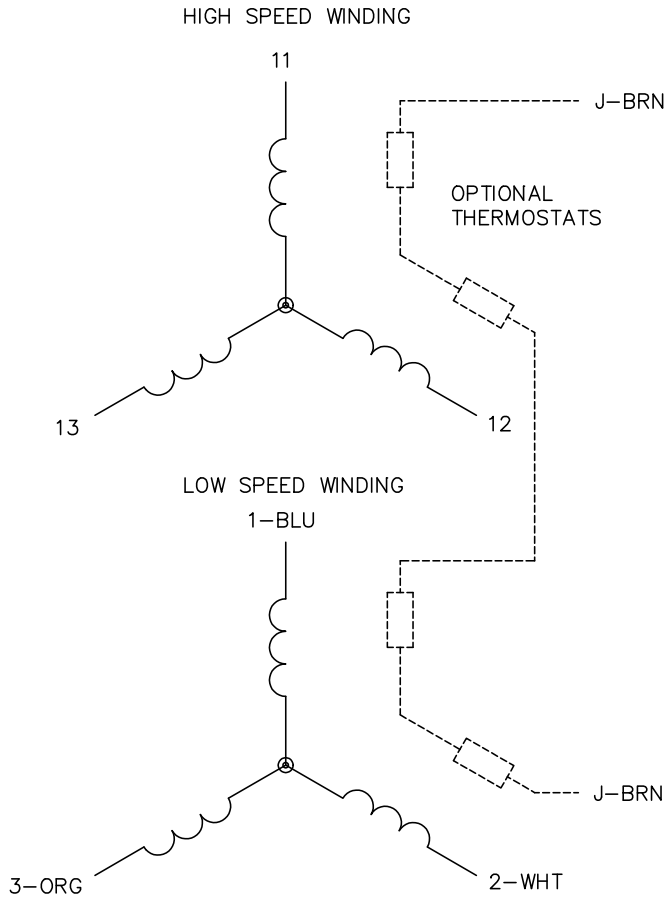
Typical performance - not guaranteed values.

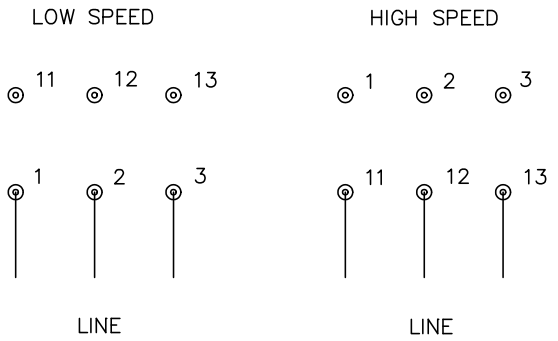
TORQUES(LB-FT): PO=17 PU=9.2 LR=10.3 LRA=24




36LYA001
614 - 623 = 15.17
624 - 634 = 16.54
635 - 646 = 18.04
635-646 ONLY
4.27
3.56
2.75
GREASE FITTING
(EACH END)
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.60
Ø 1.1250
1.1245
6 HOLES
Ø.44
4.50
2.75
5.50
.50
6.50
Ø7.87
6.88
2.24
8.43
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
5.76
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DANGLING DIMENSIONS, NO CHANGES TO DRAWING
REV: X
VERSION: 07
REVISED: 10:33:23 05/02/2022
TDR: 000001188385
MODEL NO. 36LYA001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 182-4T TEFC 36M
36LYA001

CD0013




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 VARY.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: D | BY: JLP | REVISED: 01/22/99 8:50 | TDR: 0171435 |
| CD0013 | | FILE: AAA00005143 | MDL: – |
| | | MTL: – | 3PH, SV, 6 LEADS, 2–SPEED 2–WINDING |

CD0013