ABB BALDOR RELIANCE

# Customer information packet

## ERM3007

.33HP, 1725RPM, 3PH, 60HZ, 48, 3416M, OPEN, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPEN |
| **Frame** | 48 |
| **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** | .330 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Resilient |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | .700 A @ 460.0 V |
| | 1.400 A @ 230.0 V |
| | 1.700 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 73.4 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Resilient Mount |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | J |
| **Type** | AC |
| **Mech. spec.** | 34K015 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGS936 |
| **Layout** | 34LYK015 |
| **Eff. date** | 10-29-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 10-03-2014 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 0.7 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | N |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Terminal Panel Or Lead Hole |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3416M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 10.34 IN |
| **Power Factor** | 66 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Resilient Mount |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.35 |
| **Shaft Diameter** | 0.500 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1725 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**

| NP3155L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | ERM3007 | | | | | | | | |
| **SPEC.** | 34K015S936G1 | | | | | | | | |
| **HP** | .33 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMP** | 1.4/.7 | | | | | | | | |
| **RPM** | 1725 | | | | | | | | |
| **FRAME** | 48 | | **HZ** | 60 | | | **PH** | 3 | |
| **SER.F.** | 1.35 | **CODE** | N | **DES** | B | **CL** | B | | |
| **F.L. AVG. EFF.** | 73.4 | **PF** | 66 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6203 | | **ODE** | 6203 | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | | |
| | SFA 1.6/.8 | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 47464
Typical performance - not guaranteed values

| **Winding:** 34WGS936-R002 | **Type:** 3416M | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .33 | **Full Load Torque** | 1.007 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 1.4/.7 | **Breakdown Torque** | 4.56 LB-FT |
| **R.P.M.** | | | 1725 | **Pull-up Torque** | 3.18 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 3.82 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | N | **Starting Current** | 4.74 A |
| **Service Factor (S.F.)** | | | 1.35 | **No-load Current** | 0.445 A |
| **NEMA Nom. Eff.** | 73.4 | **Power Factor** | 66 | **Line-line Res. @ 25ºC** | 43.915 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 18°C |
| **S.F. Amps** | | | 1.6/.8 | **Temp. Rise @ S.F. Load** | 24°C |
| | | | | **Locked-rotor Power Factor** | 58 |
| | | | | **Rotor inertia** | 0.0381 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 0.33 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 30 | 45 | 57 | 66 | 73 | 78 | 75 |
| **Efficiency** | 55.9 | 69.8 | 74.8 | 76.7 | 76.9 | 76.2 | 76.6 |
| **Speed** | 1785.9 | 1772.3 | 1758.5 | 1743.2 | 1726.8 | 1709.1 | 1720 |
| **Line amperes** | 0.458 | 0.497 | 0.55 | 0.617 | 0.696 | 0.787 | 0.732 |

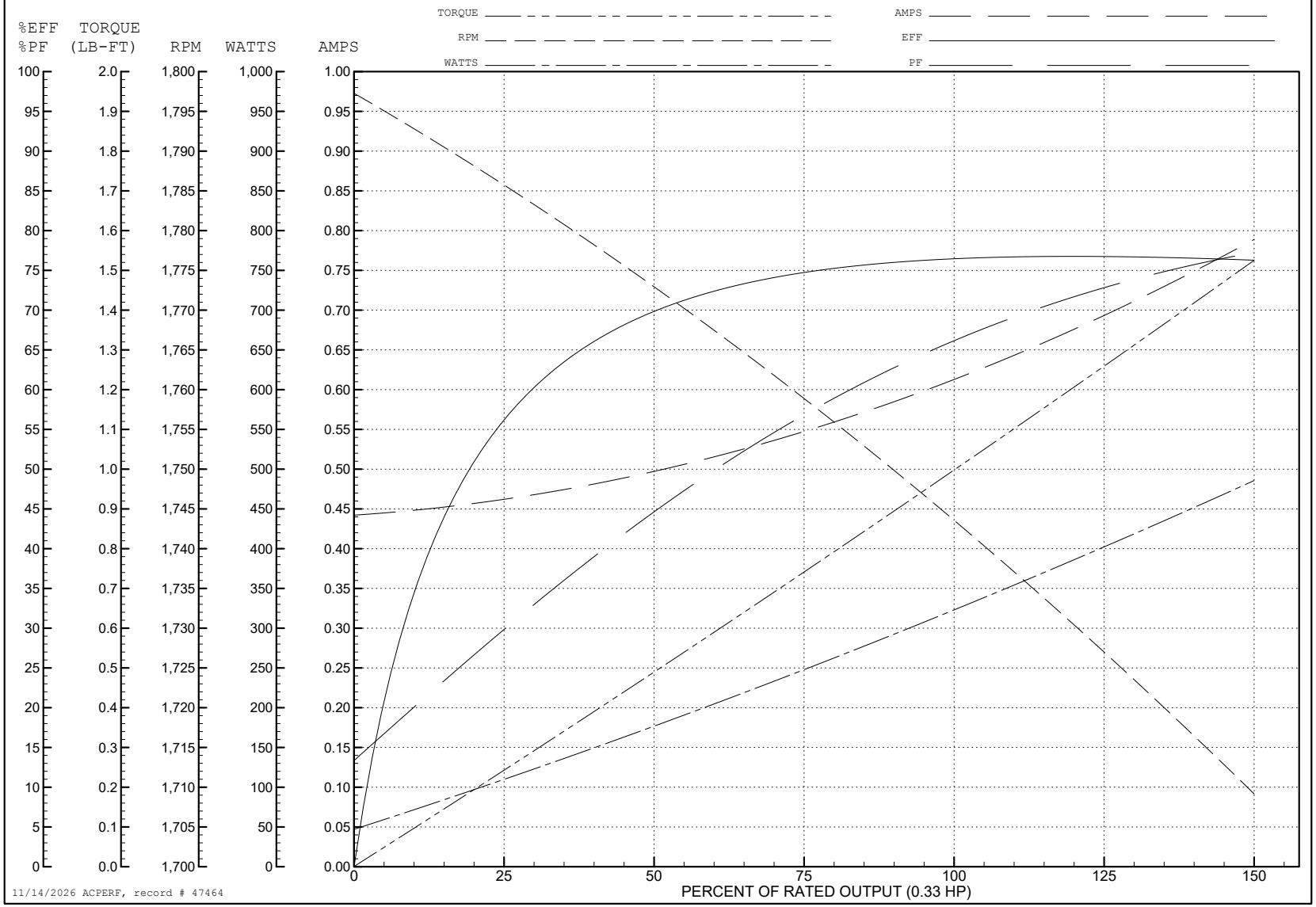
ABB Motors and Mechanical Inc.

WINDING # 34WGS936

0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3416M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.56 PU=3.18 LR=3.82 LRA=4.74



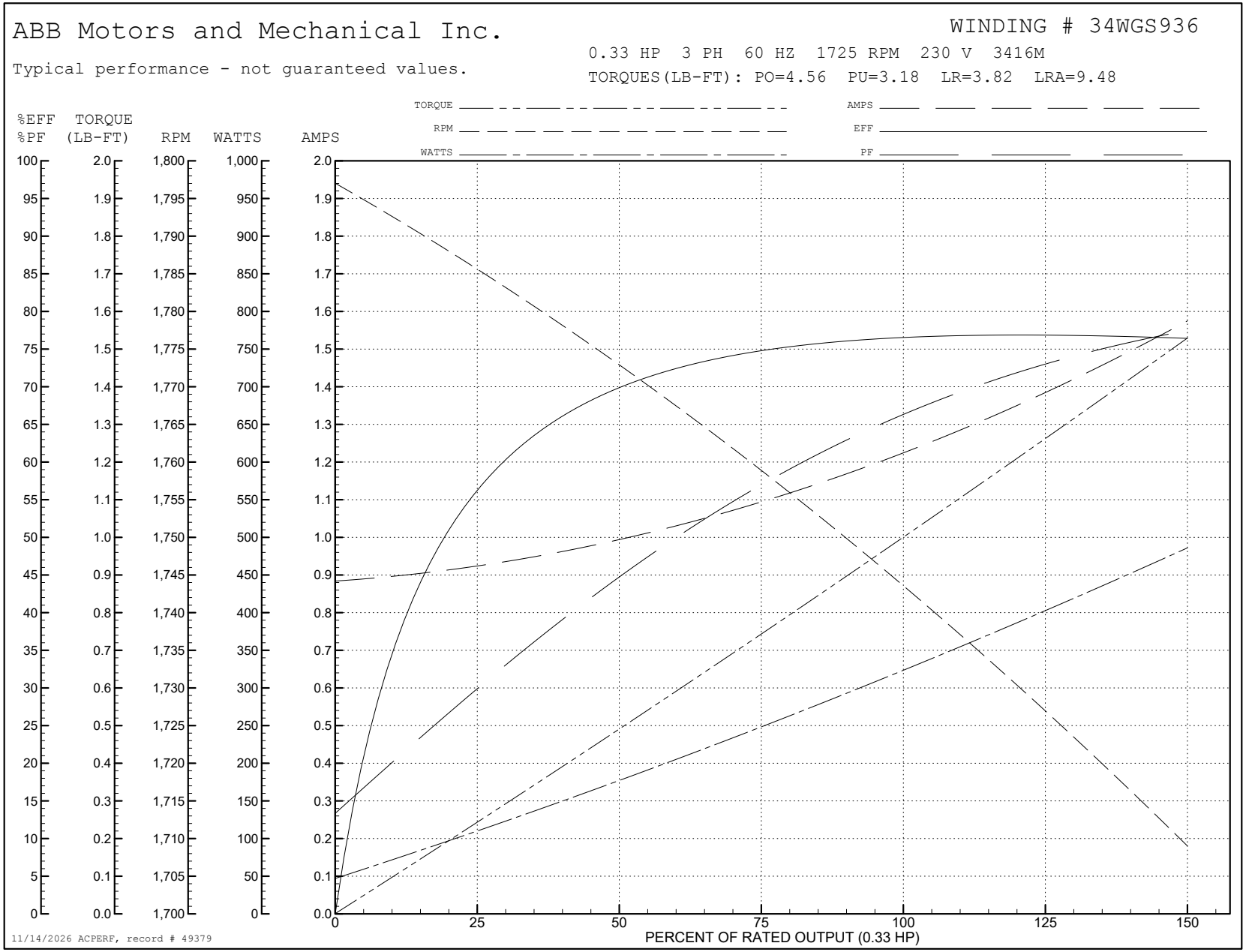
**AC Induction Motor Performance Data**
Record # 49379
Typical performance - not guaranteed values

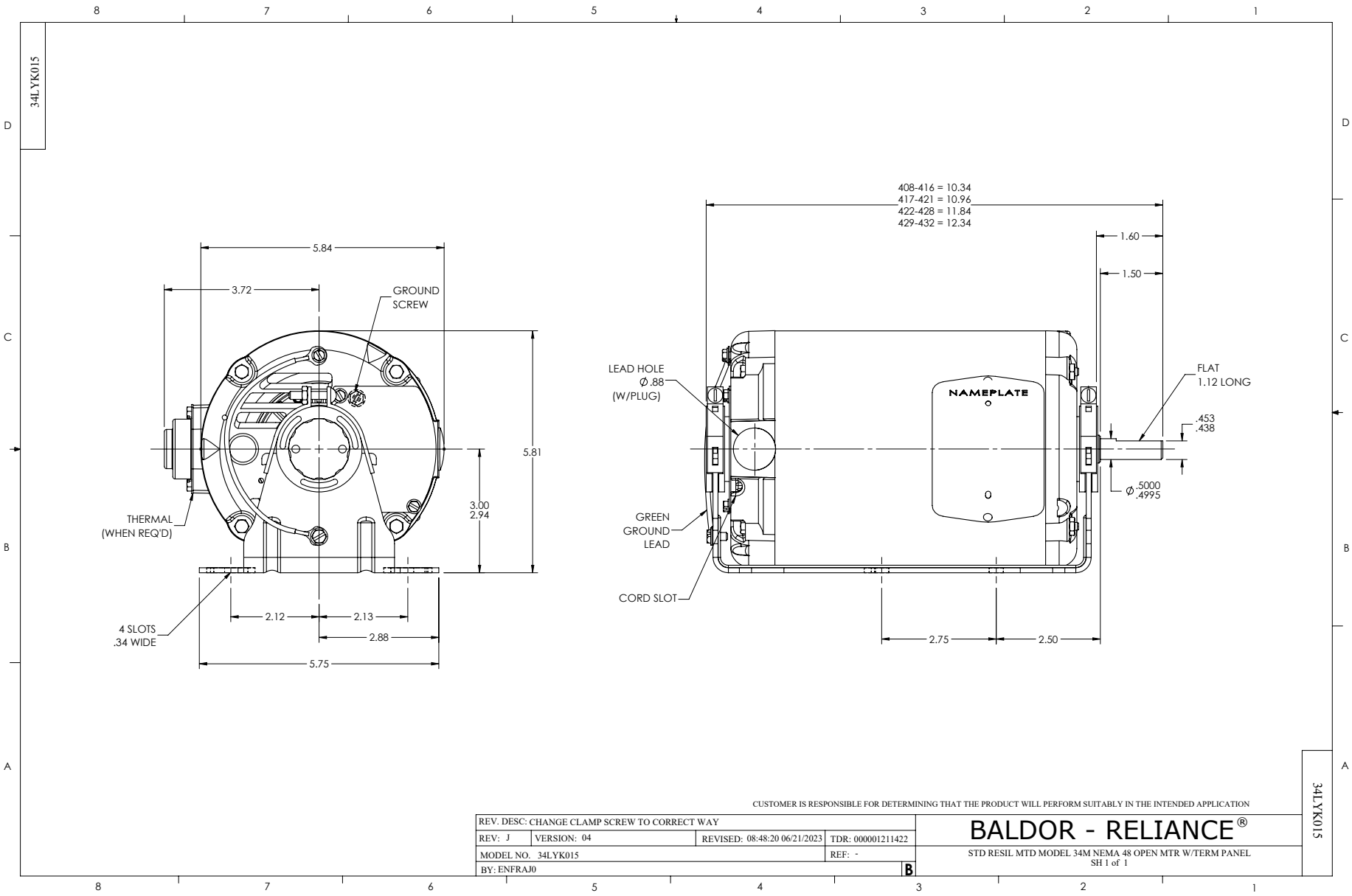
| **Winding:** 34WGS936-R002 | **Type:** 3416M | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: Low Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .33 | **Full Load Torque** | 1.01 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 1.4/.7 | **Breakdown Torque** | 4.56 LB-FT |
| **R.P.M.** | | | 1725 | **Pull-up Torque** | 3.18 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 3.82 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | N | **Starting Current** | 9.48 A |
| **Service Factor (S.F.)** | | | 1.35 | **No-load Current** | 0.89 A |
| **NEMA Nom. Eff.** | 73.4 | **Power Factor** | 66 | **Line-line Res. @ 25ºC** | 10.5 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 18°C |
| **S.F. Amps** | | | 1.6/.8 | **Temp. Rise @ S.F. Load** | 23°C |
| | | | | **Locked-rotor Power Factor** | 58.4 |
| | | | | **Rotor inertia** | 0.0381 LB-FT2 |

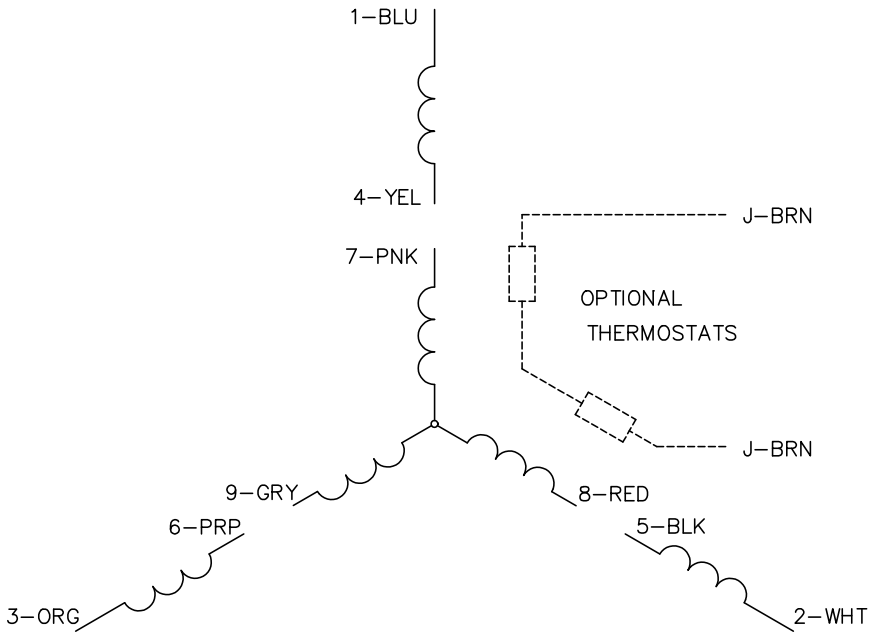
**Load Characteristics 230 V, 60 Hz, 0.33 HP**

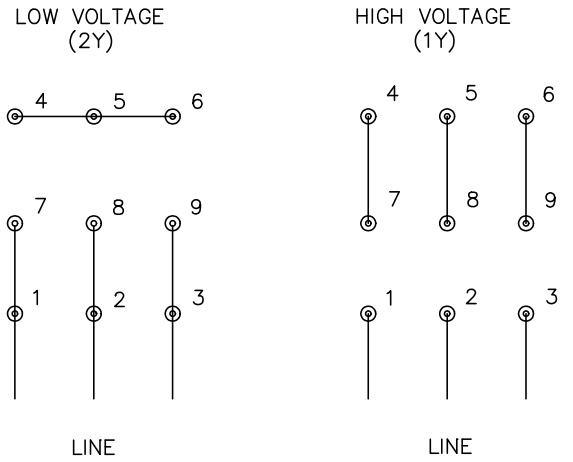
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 30 | 45 | 57 | 66 | 73 | 78 | 75 |
| **Efficiency** | 55.8 | 69.9 | 74.8 | 77 | 76.7 | 76.4 | 76.6 |
| **Speed** | 1786 | 1772 | 1759 | 1743 | 1727 | 1709 | 1720 |
| **Line amperes** | 0.915 | 0.993 | 1.1 | 1.23 | 1.39 | 1.57 | 1.46 |


ABB Motors and Mechanical Inc.
WINDING # 34WGS936
Typical performance - not guaranteed values.
0.33 HP 3 PH 60 HZ 1725 RPM 230 V 3416M
TORQUES(LB-FT): PO=4.56 PU=3.18 LR=3.82 LRA=9.48
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/14/2026 ACPERF, record # 49379


34LYK015
5.84
3.72
GROUND SCREW
5.81
3.00
2.94
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.12
2.13
2.88
5.75
408-416 = 10.34
417-421 = 10.96
422-428 = 11.84
429-432 = 12.34
1.60
1.50
LEAD HOLE Ø .88 (W/PLUG)
NAMEPLATE
FLAT 1.12 LONG
.453
.438
Ø .5000
.4995
GREEN GROUND LEAD
CORD SLOT
2.75
2.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: J
VERSION: 04
REVISED: 08:48:20 06/21/2023
TDR: 000001211422
MODEL NO. 34LYK015
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD RESIL MTD MODEL 34M NEMA 48 OPEN MTR W/TERM PANEL
SH 1 of 1
34LYK015

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 |