ABB BALDOR RELIANCE

# Customer information packet

## ERL1306A

.75HP, 3450RPM, 1PH, 60HZ, 56, 3428LC, OPEN, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | OPEN |
| **Frame** | 56 |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Cap Run |
| **Output @ Frequency** | .750 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 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** | 3.300 A @ 230.0 V |
| | 4.700 A @ 208.0 V |
| | 6.300 A @ 115.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 76.2 % |
| **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** | G |
| **Type** | AC |
| **Mech. spec.** | 34G867 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGR220 |
| **Layout** | 34LYG867 |
| **Eff. date** | 10-29-2024 |
| **CD Diagram** | CD0703 |
| **Poles** | 02 |
| **Leads** | 6#18,1#16 #1TH |
| **Proprietary** | False |
| **Created date** | 10-09-2014 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 3.3 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | J |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Terminal Panel |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | None |
| **Motor Standards** | NEMA |
| **Motor Type** | 3428LC |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 12.47 IN |
| **Power Factor** | 95 |
| **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** | 1.25 |
| **Shaft Diameter** | 0.625 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** | Automatic Thermal Overload |

| | |
|---|---|
| **Winding Thermal 1 Location** | SB |
| **Winding Thermal 2** | None |

**Nameplate**

| | NP3273L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | ERL1306A | | | | | | | | |
| **SPEC.** | 34G867R220G1 | | | | | | | | |
| **HP** | .75 | | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | | |
| **AMP** | 6.3/3.3 | | | | | | | | |
| **RPM** | 3450 | | | | | | | | |
| **FRAME** | 56 | **HZ** | 60 | | | **PH** | 1 | | |
| **SER.F.** | 1.25 | **CODE** | J | **DES** | N | **CL** | B | | |
| **F.L. AVG. EFF.** | 76.2 | **PF** | 95 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | | |
| | SFA 8.4/4.2 | | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA288414 | SA 34G867R220G1 | 1.000 ea |
| RA274605 | RA 34G867R220G1 | 1.000 ea |
| OC3030F11SP | CAPACITOR 30 MFD 370 VAC | 1.000 ea |
| EC1400A03SP | ELEC CAP, 400-480 MFD, 125V, 1.81D X 3. | 1.000 ea |
| WD3006A01 | RSS-2-103JT 2W 10K RES. METAL OXIDE 5% | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 3.000 ea |
| 34EP3202A01 | FR ENDPLATE, MACH | 1.000 ea |
| 11XW0832G06 | #8-32 X 3/8, TAPTITE II, HEX WSHR SLTD | 1.000 ea |
| WD4100A01 | DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS | 1.000 ea |
| RM1000A03 | CUSHION RING, MDL 17-33-34 | 1.000 ea |
| HA6004A01A | CLAMP CUSHION RING ASSY | 1.000 ea |
| LD5000A52 | LEAD ASSY W/INTERNAL STAR RING TERMINALS | 1.000 ea |
| 11XT1032A06 | 10-32 X 3/8 HX WSHR HD SLTD TYPE 23 | 2.000 ea |
| 34CB3801 | CAPACITOR BOX, DIE CAST | 1.000 ea |
| 51XB1214A08 | 12-14 X 1/2HX WS SL SR TYBX | 2.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 34EP3203A01 | PU ENDPLATE, MACH | 1.000 ea |
| RM1000A03 | CUSHION RING, MDL 17-33-34 | 1.000 ea |
| HA6004A01A | CLAMP CUSHION RING ASSY | 1.000 ea |
| XY1032A02 | 10-32 HEX NUT DIRECTIONAL SERRATION | 4.000 ea |
| 34CB4501SP | TERMINAL BOX LID, STAMPED X (PLATED) | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW2501D13 | KEY, 3/16 SQ X 1.375 | 1.000 ea |
| HA7000A04 | KEY RETAINER 0.625 DIA SHAFTS | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| MG1050Y01 | CELEROL BALDOR GOLD *5 GALLON BUCKET* | 0.014 ga |
| 34BA4003G01 | RESILIENT BASE | 1.000 ea |
| HA3100A45 | THRUBOLT 10-32 X 8.875 | 4.000 ea |
| SP5068A24 | 34LC TERM PANEL STAT SWITCH #E-6" AND #O | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| LB1118 | LABEL,WARNING (ROLL LABEL) | 1.000 ea |

| | | |
|---|---|---|
| LC0052 | CONNECTION LABEL | 1.000 ea |
| NP3273L | ALUM SUPER-E THERMALLY PROTECTED, LASER | 1.000 ea |
| 35PA1066 | PKG GRP, PRINT PK1008A07 | 1.000 ea |
| WD1000A41 | AMP TERMINAL 62418-2 | 2.000 ea |

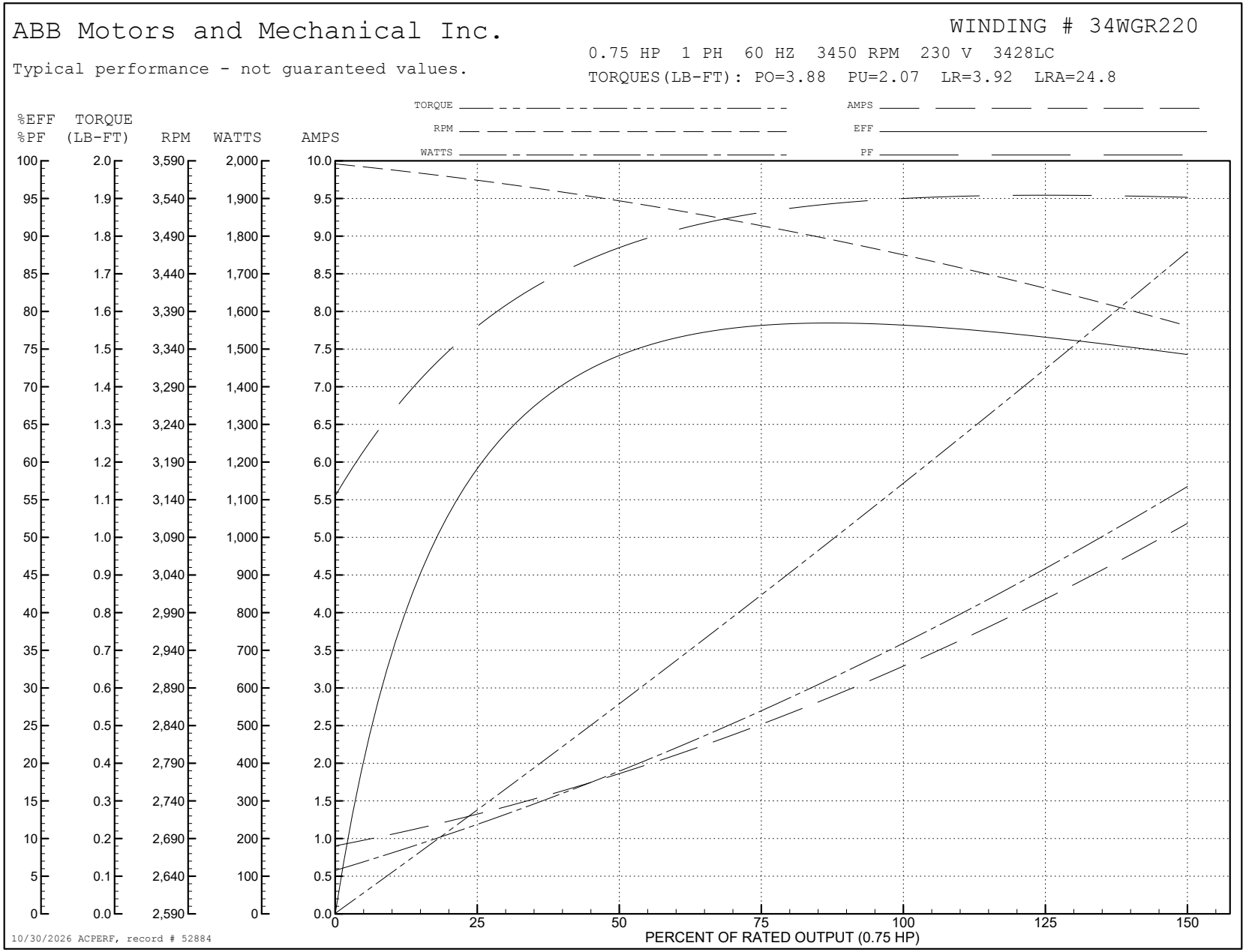
**AC Induction Motor Performance Data**
Record # 52884
Typical performance - not guaranteed values

| **Winding:** 34WGR220-R001 | **Type:** 3428LC | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .75 | **Full Load Torque** | 1.14 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 6.3/3.3 | **Breakdown Torque** | 3.88 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 2.07 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 3.92 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | J | **Starting Current** | 24.8 A |
| **Service Factor (S.F.)** | | | 1.25 | **No-load Current** | 0.961 A |
| **NEMA Nom. Eff.** | 76.2 | **Power Factor** | 95 | **Line-line Res. @ 25ºC** | 2.4012 Ω A Ph<br>2.118 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 12°C |
| **S.F. Amps** | | | 8.4/4.2 | **Temp. Rise @ S.F. Load** | 16°C |

**Load Characteristics 230 V, 60 Hz, 0.75 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 77 | 89 | 93 | 95 | 95 | 95 | 95 |
| **Efficiency** | 62.6 | 74.2 | 78.2 | 77.5 | 76.1 | 74.7 | 76.1 |
| **Speed** | 3567.6 | 3537.1 | 3504.2 | 3465 | 3419.8 | 3372.1 | 3420 |
| **Line amperes** | 1.23 | 1.84 | 2.51 | 3.32 | 4.21 | 5.14 | 4.21 |


ABB Motors and Mechanical Inc.
WINDING # 34WGR220
Typical performance - not guaranteed values.
0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3428LC
TORQUES(LB-FT): PO=3.88 PU=2.07 LR=3.92 LRA=24.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0
3,590 3,540 3,490 3,440 3,390 3,340 3,290 3,240 3,190 3,140 3,090 3,040 2,990 2,940 2,890 2,840 2,790 2,740 2,690 2,640 2,590
2,000 1,900 1,800 1,700 1,600 1,500 1,400 1,300 1,200 1,100 1,000 900 800 700 600 500 400 300 200 100 0
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.75 HP)
10/30/2026 ACPERF, record # 52884

**AC Induction Motor Performance Data**
Record # 52885
Typical performance - not guaranteed values

| **Winding:** 34WGR220-R001 | **Type:** 3428LC | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | | **115 V, 60 Hz: Low Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .75 | **Full Load Torque** | 1.13 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 6.3/3.3 | **Breakdown Torque** | 3.28 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 2.55 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 3.81 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | J | **Starting Current** | 49.8 A |
| **Service Factor (S.F.)** | | | 1.25 | **No-load Current** | 1.82 A |
| **NEMA Nom. Eff.** | 76.2 | **Power Factor** | 95 | **Line-line Res. @ 25ºC** | 0.58846 Ω A Ph<br>2.1681 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 27°C |
| **S.F. Amps** | | | 8.4/4.2 | **Temp. Rise @ S.F. Load** | 36°C |

**Load Characteristics 115 V, 60 Hz, 0.75 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 80 | 89 | 93 | 94 | 95 | 95 | 95 |
| **Efficiency** | 60.3 | 73.2 | 77.3 | 78.2 | 77.3 | 74.8 | 77.3 |
| **Speed** | 3570 | 3543.5 | 3508.4 | 3477.4 | 3436.9 | 3387.6 | 3437 |
| **Line amperes** | 2.54 | 3.7 | 5.12 | 6.53 | 8.27 | 10.3 | 8.27 |

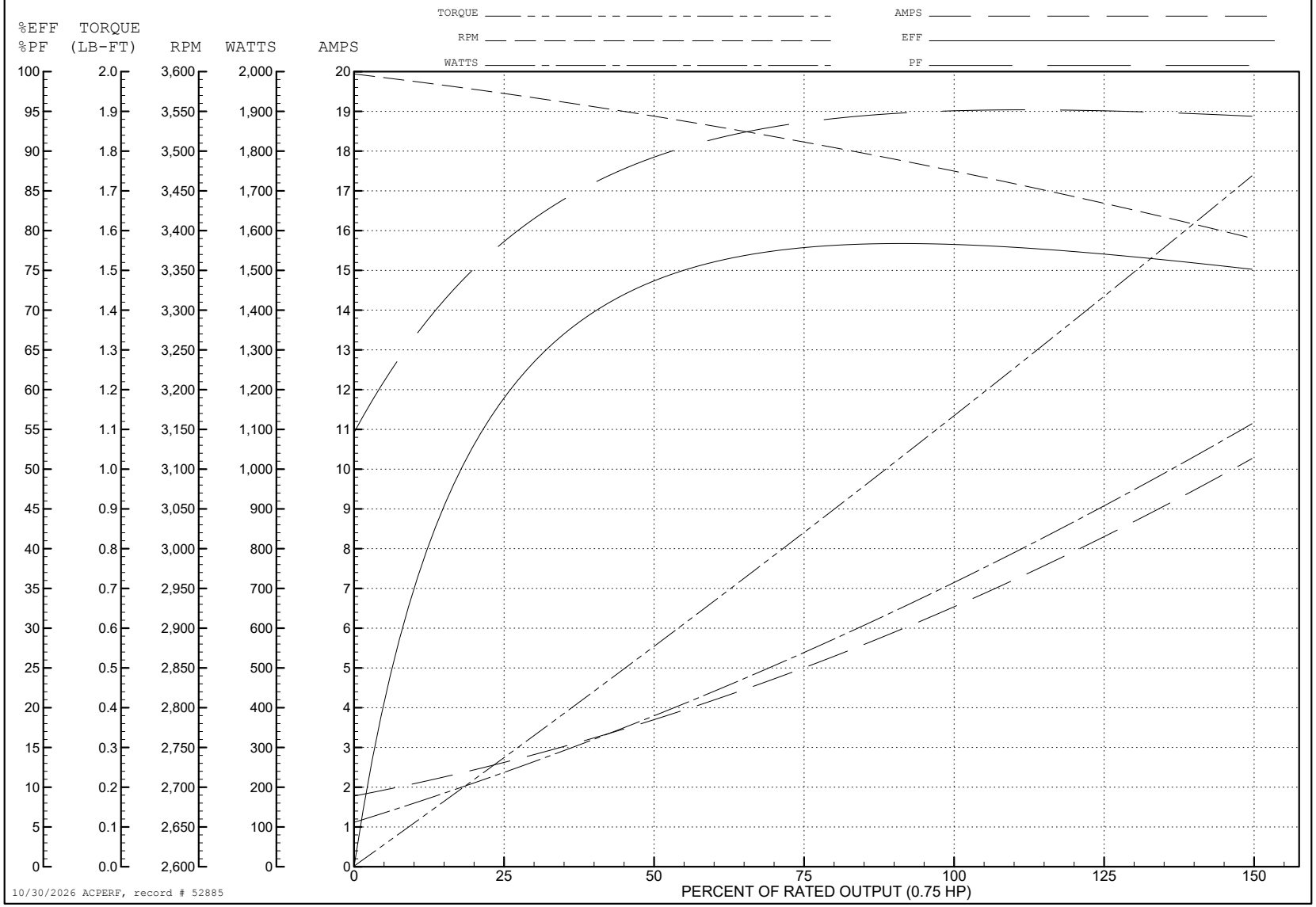
ABB Motors and Mechanical Inc.

WINDING # 34WGR220

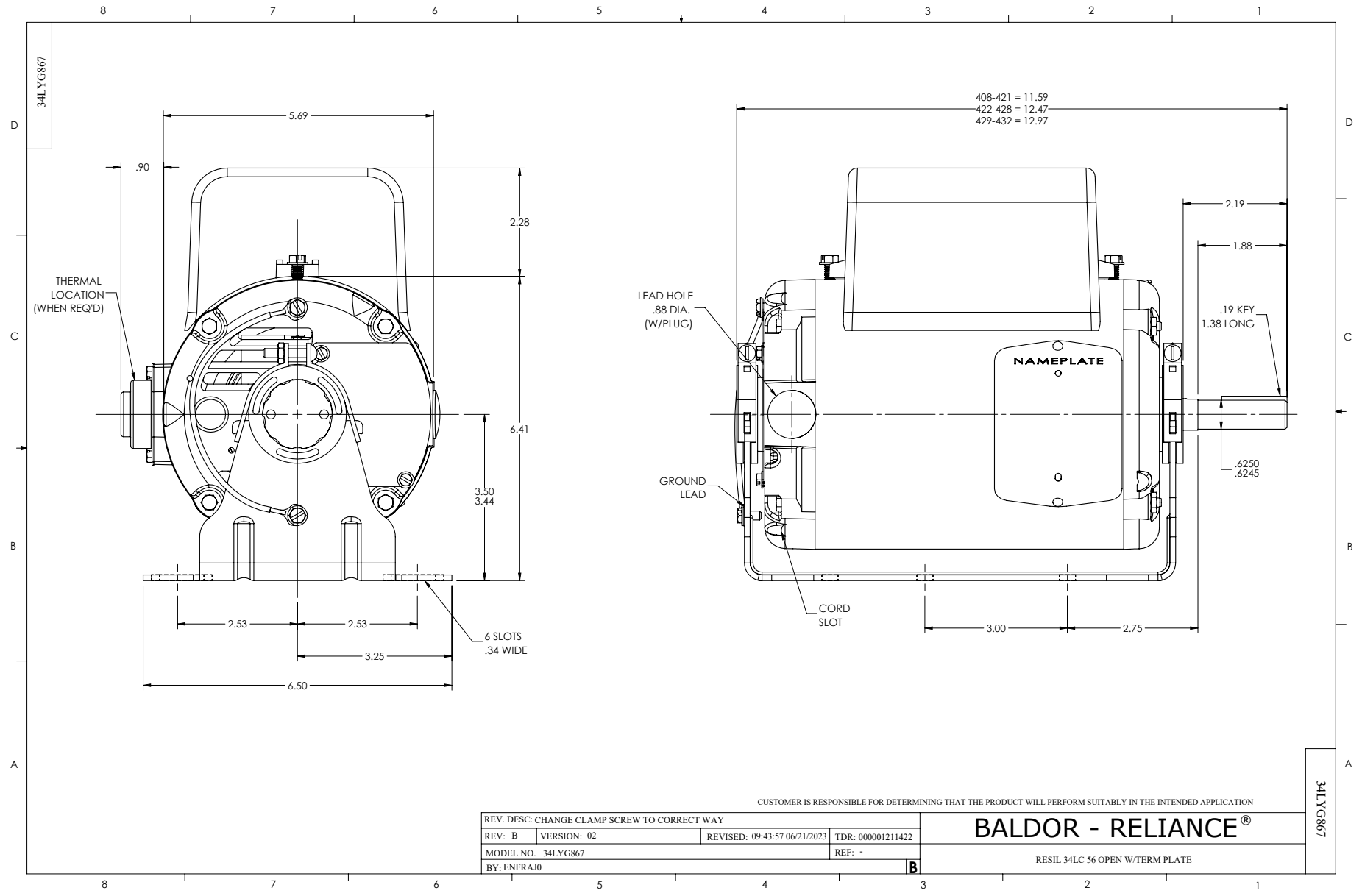
0.75 HP 1 PH 60 HZ 3450 RPM 115 V 3428LC

Typical performance - not guaranteed values.

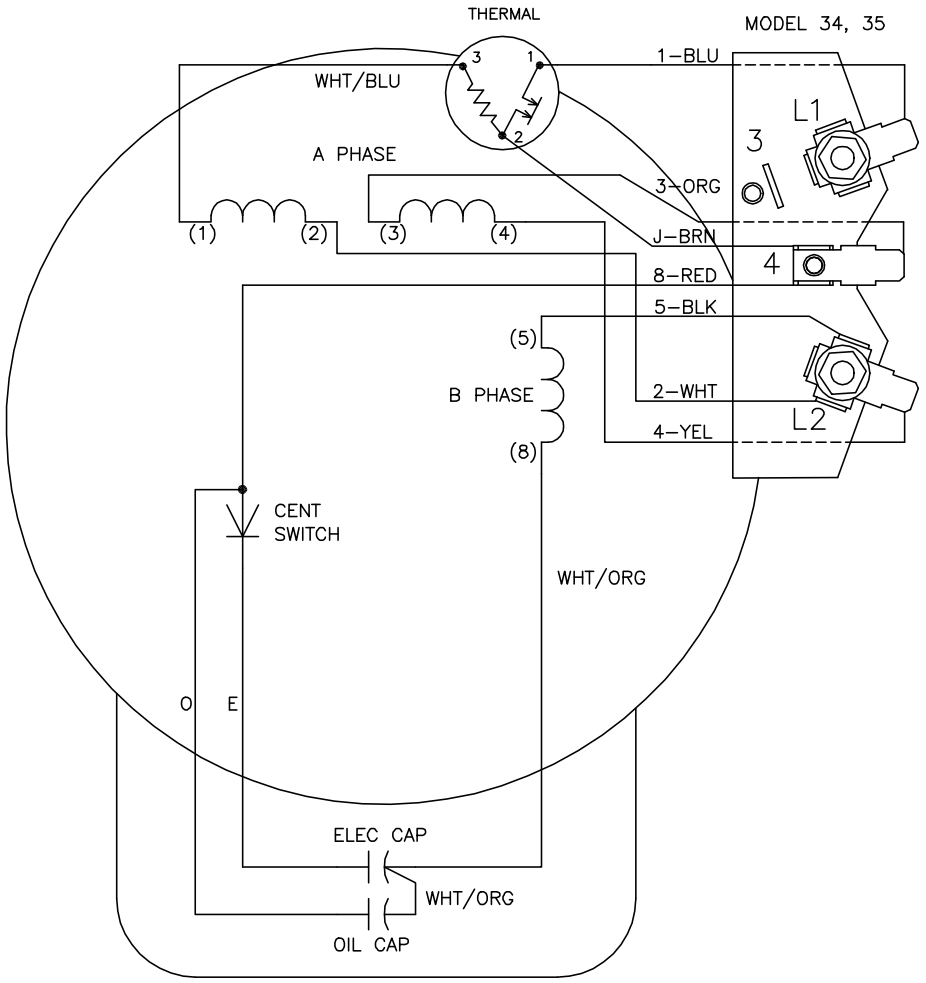
TORQUES(LB-FT): PO=3.28 PU=2.55 LR=3.81 LRA=49.8




10/30/2026 ACPERF, record # 52885


34LYG867
5.69
.90
2.28
THERMAL
LOCATION
(WHEN REQ'D)
6.41
3.50
3.44
2.53
2.53
3.25
6.50
6 SLOTS
.34 WIDE
408-421 = 11.59
422-428 = 12.47
429-432 = 12.97
2.19
1.88
.19 KEY
1.38 LONG
LEAD HOLE
.88 DIA.
(W/PLUG)
NAMEPLATE
.6250
.6245
GROUND
LEAD
CORD
SLOT
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: B
VERSION: 02
REVISED: 09:43:57 06/21/2023
TDR: 000001211422
MODEL NO. 34LYG867
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL 34LC 56 OPEN W/TERM PLATE
34LYG867

CD0703




NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3.
   MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0703

| | | |
|---|---|---|
| REV. DESC: REMOVE MODEL 17 CONNECTION | | |
| REV. LTR: G | VERSION: 02 | TDR: 000001218314 |
| FILE: \AAA\00007\140 | REVISED: 08:28:11 10/11/2023 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

SH 1 of 1