

BALDOR® • RELIANCE 

Product Information Packet

EM30004

.25HP,1140RPM,3PH,60HZ,48,3416M,OPEN,F1

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | C | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 34WGR138 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 34F002 | Layout: | 34LYF002 | Poles: | 06 | Created Date: | 10-03-2014 |
| Base: | RG | Eff. Date: | 02-23-2018 | Leads: | 9#18 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-------------------|
| Catalog Number: | EM30004 | Insulation Class: | B |
| Enclosure: | OPEN | Inverter Code: | Not Inverter |
| Frame: | 48 | KVA Code: | N |
| Frame Material: | Steel | Lifting Lugs: | No Lifting Lugs |
| Output @ Frequency: | .250 HP @ 60 HZ | Locked Bearing Indicator: | No Locked Bearing |
| Synchronous Speed @ Frequency: | 1200 RPM @ 60 HZ | Motor Lead Quantity/Wire Size: | 9 @ 18 AWG |
| Voltage @ Frequency: | 460.0 V @ 60 HZ | Motor Lead Exit: | Ko Box |
| | 230.0 V @ 60 HZ | Motor Lead Termination: | Flying Leads |
| XP Class and Group: | None | Motor Type: | 3416M |
| XP Division: | Not Applicable | Mounting Arrangement: | F1 |
| Agency Approvals: | CSA | Power Factor: | 48 |
| | UR | Product Family: | General Purpose |
| Auxillary Box: | No Auxillary Box | Pulley End Bearing Type: | Ball |
| Auxillary Box Lead Termination: | None | Pulley Face Code: | Standard |
| Base Indicator: | Rigid | Pulley Shaft Indicator: | Standard |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | Rodent Screen: | None |
| Blower: | None | RoHS Status: | ROHS COMPLIANT |
| Current @ Voltage: | .700 A @ 460.0 V | Shaft Extension Location: | Pulley End |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| | 1.400 A @ 230.0 V | Shaft Ground Indicator: | No Shaft Grounding |
| | 1.700 A @ 208.0 V | Shaft Rotation: | Reversible |
| Design Code: | B | Shaft Slinger Indicator: | No Slinger |
| Drip Cover: | No Drip Cover | Speed Code: | Single Speed |
| Duty Rating: | CONT | Motor Standards: | NEMA |
| Electrically Isolated Bearing: | Not Electrically Isolated | Starting Method: | Direct on line |
| Feedback Device: | NO FEEDBACK | Thermal Device - Bearing: | None |
| Front Face Code: | Standard | Thermal Device - Winding: | None |
| Front Shaft Indicator: | None | Vibration Sensor Indicator: | No Vibration Sensor |
| Heater Indicator: | No Heater | Winding Thermal 1: | None |
| | | Winding Thermal 2: | None |

| Nameplate NP3155L | | | | | | | | | | | | | |
|-------------------|--------------|--|--|--|--|------|------|--|-----|----------------|-----|----|---|
| CAT.NO. | EM30004 | | | | | | | | | | | | |
| SPEC. | 34F002R138G1 | | | | | | | | | | | | |
| HP | .25 | | | | | | | | | | | | |
| VOLTS | 230/460 | | | | | | | | | | | | |
| AMP | 1.4/7 | | | | | | | | | | | | |
| RPM | 1140 | | | | | | | | | | | | |
| FRAME | 48 | | | | | HZ | 60 | | | PH | 3 | | |
| SER.F. | 1.35 | | | | | CODE | N | | DES | B | | CL | B |
| F.L. AVG. EFF. | 67.5 | | | | | PF | 48 | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | | | | | |
| CC | | | | | | | | | | USABLE AT 208V | 1.7 | | |
| DE | 6203 | | | | | ODE | 6203 | | | | | | |
| ENCL | OPEN | | | | | SN | | | | | | | |
| | SFA 1.6/8 | | | | | | | | | | | | |

| Parts List | | |
|---------------|------------------------------------------|----------|
| Part Number | Description | Quantity |
| SA287912 | SA 34F002R138G1 | 1.000 EA |
| RA274115 | RA 34F002R138G1 | 1.000 EA |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 EA |
| 34CB3002A | CB CAST W/.88 DIA HOLE | 1.000 EA |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 34EP3210A01SP | FR ENDPLATE, MACH | 1.000 EA |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 EA |
| 34EP3212A02 | PU ENDPLATE, MODEL 34 OPEN | 1.000 EA |
| XY1032A02 | 10-32 HEX NUT DIRECTIONAL SERRATION | 4.000 EA |
| 34CB4517 | CB LID 4 MTG HOLES .22 DIA STAMPED, FOR | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| MG1000Y03 | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20, | 0.014 GA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| HA3100A12 | THRUBOLT 10-32 X 7.375 | 4.000 EA |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 3/19 | 1.000 EA |
| NP3155L | ALUM SUPER-E UL CSA CC "SEMS" | 1.000 EA |
| 34PA1002 | PKG GRP, PRINT PK1001A01 | 1.000 EA |

AC Induction Motor Performance Data

Record # 47465 - Typical performance - not guaranteed values

| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 34WGR138-R002 | Type: 3416M | Enclosure: OPEN |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|------------------------------------------|--------------------------|
| Rated Output (HP) | .25 | | | Full Load Torque | 1.14 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 1.4/.7 | | | Breakdown Torque | 5.98 LB-FT |
| R.P.M. | 1140 | | | Pull-up Torque | 3.59 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 4.66 LB-FT |
| NEMA Design Code | B | KVA Code | N | Starting Current | 3.58 A |
| Service Factor (S.F.) | 1.35 | | | No-load Current | 0.639 A |
| NEMA Nom. Eff. | 67.5 | Power Factor | 48 | Line-line Res. @ 25°C | 55.4 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 37°C |
| S.F. Amps | 1.6/.8 | | | Temp. Rise @ S.F. Load | 43°C |
| | | | | Locked-rotor Power Factor | 65 |
| | | | | Rotor inertia | 0.038 LB-FT ² |

Load Characteristics 460 V, 60 Hz, 0.25 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|-------|-------|-------|-------|-------|-------|------|
| Power Factor | 22 | 31 | 39 | 47 | 54 | 60 | 56 |
| Efficiency | 42.6 | 57.9 | 65.1 | 68.7 | 70.8 | 71.3 | 71 |
| Speed | 1187 | 1178 | 1169 | 1158 | 1146 | 1132 | 1140 |
| Line amperes | 0.644 | 0.664 | 0.693 | 0.727 | 0.769 | 0.821 | 0.79 |

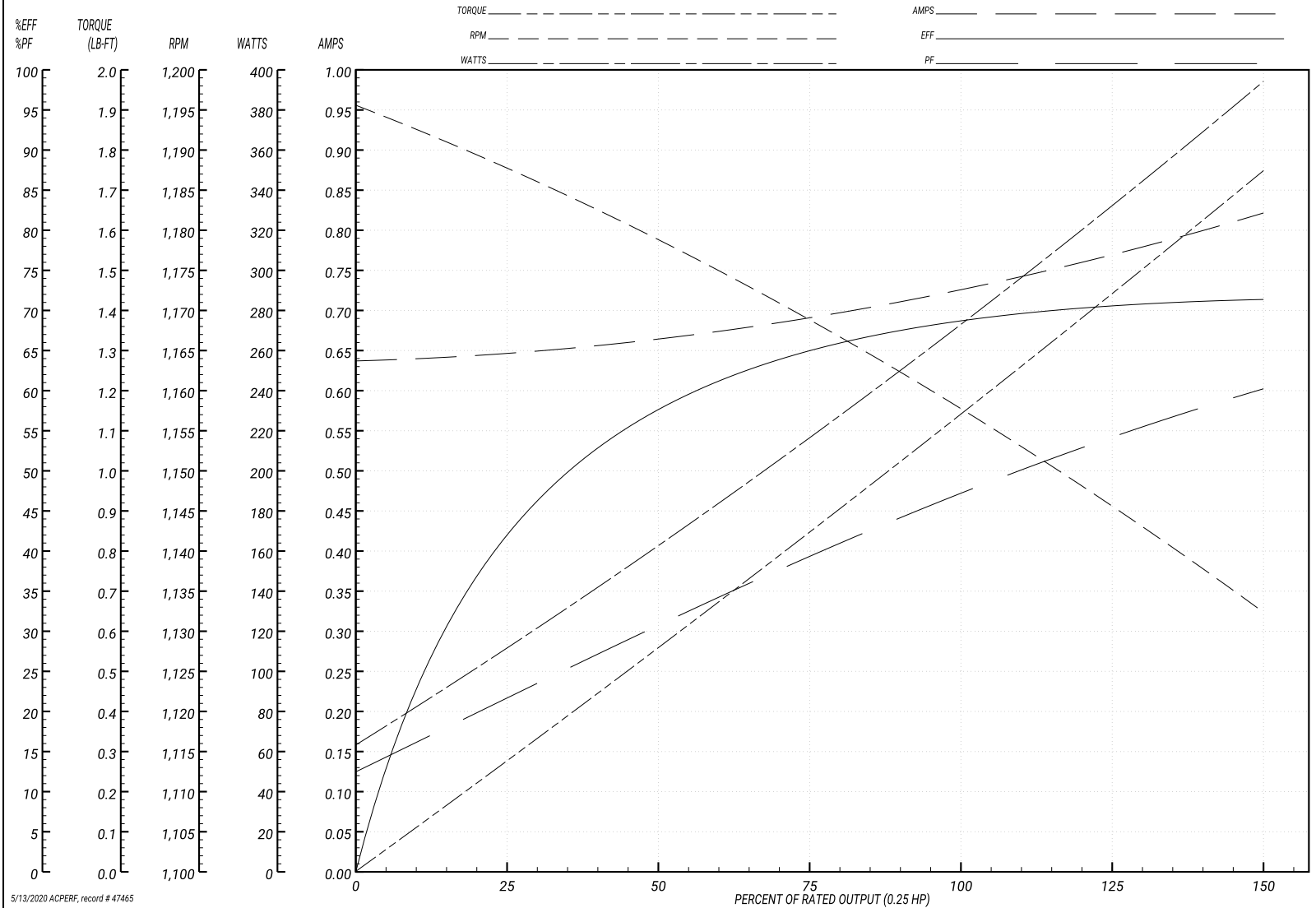
Performance Graph at 460V, 60Hz, 0.25HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

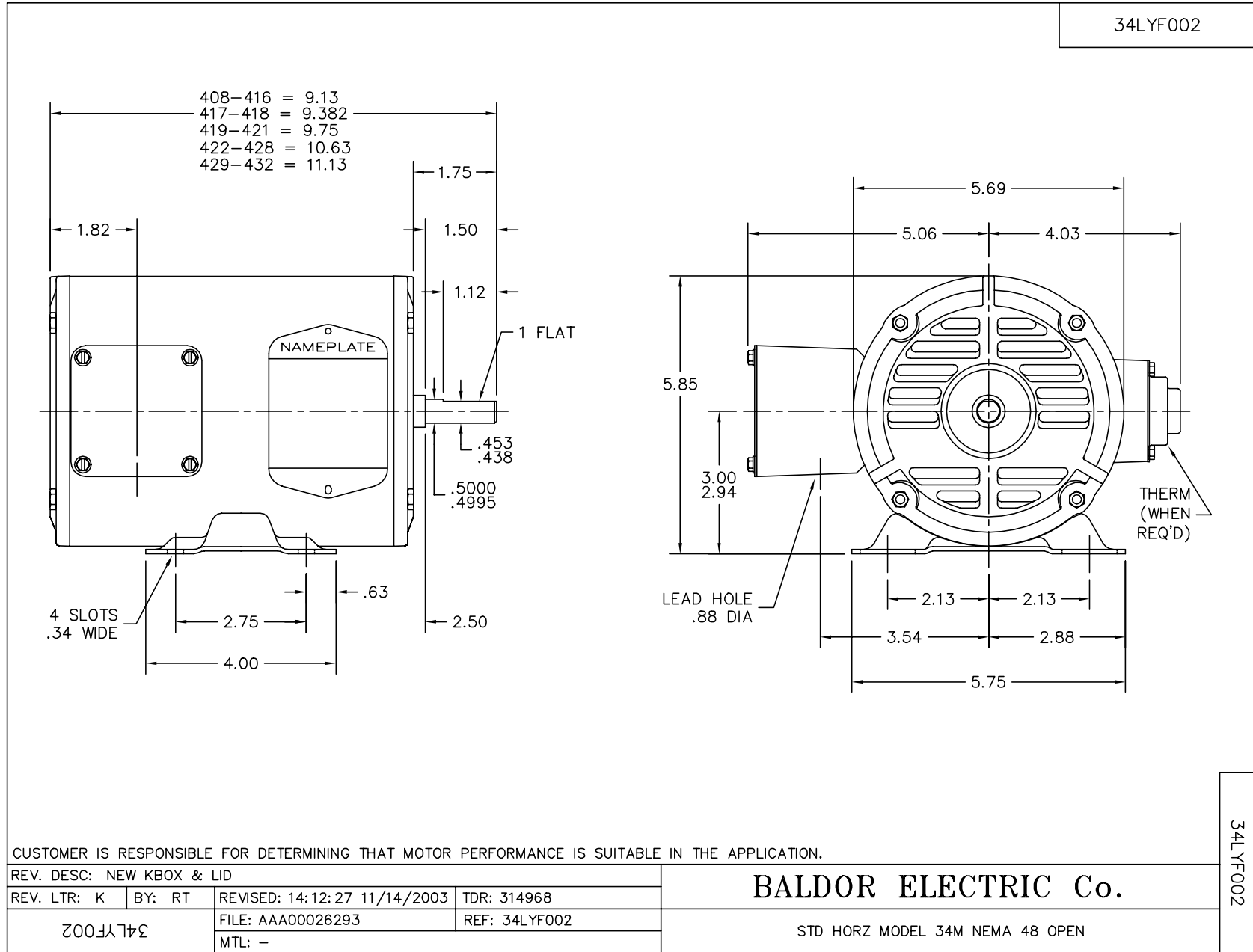
WINDING # 34WGR138

Typical performance - not guaranteed values.

0.25 HP 3 PH 60 HZ 1140 RPM 460 V 3416M
 TORQUES(LB-FT): PO=5.98 PU=3.59 LR=4.66 LRA=3.58



5/13/2020 ACPERF, record # 47465



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

| | | | |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 9000D | | FILE: AAA00005140 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005