

BALDOR • RELIANCE

Customer information packet

CM3541

.75HP, 3450RPM, 3PH, 60HZ, 56C, 3413M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

| | |
|--------------------------------|---|
| Enclosure | TEFC |
| Frame | 56C |
| 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 | .750 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 | CSA UR |
| 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 | 3.100 A @ 208.0 V 2.600 A @ 230.0 V 1.300 A @ 460.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 74.0 % |
| 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 | X |
| Type | AC |
| Mech. spec. | 34A062 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 34WG0255 |
| Layout | 34LYA062 |
| Eff. date | 12-30-2024 |
| CD Diagram | CD0005 |
| Poles | 02 |
| Leads | 9#18 |
| Proprietary | False |
| Created date | 01-01-0001 |

| | |
|-------------------------------|---------------------|
| High Voltage Full Load Amps | 1.3 a |
| Insulation Class | B |
| Inverter Code | Not Inverter |
| KVA Code | K |
| 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 | 3413M |
| Mounting Arrangement | F1 |
| Number of Poles | 2 |
| Overall Length | 11.35 IN |
| Power Factor | 73 |
| Product Family | General Purpose |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | C-Face |
| Pulley Shaft Indicator | Standard |
| Rodent Screen | None |
| 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 | None |
| Winding Thermal 2 | None |

Nameplate

| NP1256L | | | | | | | | | |
|---------------------|--------------|-------------|------------|------------|---|--------------|---|--|--|
| CAT.NO. | CM3541 | | | | | | | | |
| SPEC. | 34A62-255 | | | | | | | | |
| HP | .75 | | | | | | | | |
| VOLTS | 230/460 | | | | | | | | |
| AMP | 2.6/1.3 | | | | | | | | |
| RPM | 3450 | | | | | | | | |
| FRAME | 56C | | HZ | 60 | | PH | 3 | | |
| SER.F. | 1.25 | CODE | K | DES | B | CLASS | B | | |
| NEMA-NOM-EFF | 74 | PF | 73 | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | |
| CC | | | | | | | | | |
| DE | 6203 | | ODE | 6203 | | | | | |
| ENCL | TEFC | SN | | | | | | | |
| | SFA 3/1.5 | | | | | | | | |

AC Induction Motor Performance Data

Record # 6564

Typical performance - not guaranteed values

| Winding: 34WG0255-R001 | | Type: 3413M | | Enclosure: TEFC | |
|-------------------------------|------------------------|--------------------|--|------------------------|--|
| Nameplate Data | | | 460 V, 60 Hz: High Voltage Connection | | |
| Rated Output (HP) | .75 | | Full Load Torque | 1.2 LB-FT | |
| Volts | 230/460 | | Start Configuration | direct on line | |
| Full Load Amps | 2.6/1.3 | | Breakdown Torque | 4.8 LB-FT | |
| R.P.M. | 3450 | | Pull-up Torque | 3.5 LB-FT | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 3.9 LB-FT | |
| NEMA Design Code | B KVA Code | K | Starting Current | 7.6 A | |
| Service Factor (S.F.) | 1.25 | | No-load Current | 0.85 A | |
| NEMA Nom. Eff. | 74 Power Factor | 73 | Line-line Res. @ 25°C | 24.6 Ω | |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 64°C | |
| S.F. Amps | 3/1.5 | | Temp. Rise @ S.F. Load | 84°C | |

Load Characteristics 460 V, 60 Hz, 0.75 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 39 | 58 | 67 | 78 | 82 | 84 | 82 |
| Efficiency | 57.7 | 70.6 | 73.6 | 75.1 | 74.7 | 74 | 74.7 |
| Speed | 3553 | 3518 | 3481 | 3440 | 3395 | 3344 | 3395 |
| Line amperes | 0.95 | 1.02 | 1.12 | 1.33 | 1.5 | 1.62 | 1.5 |

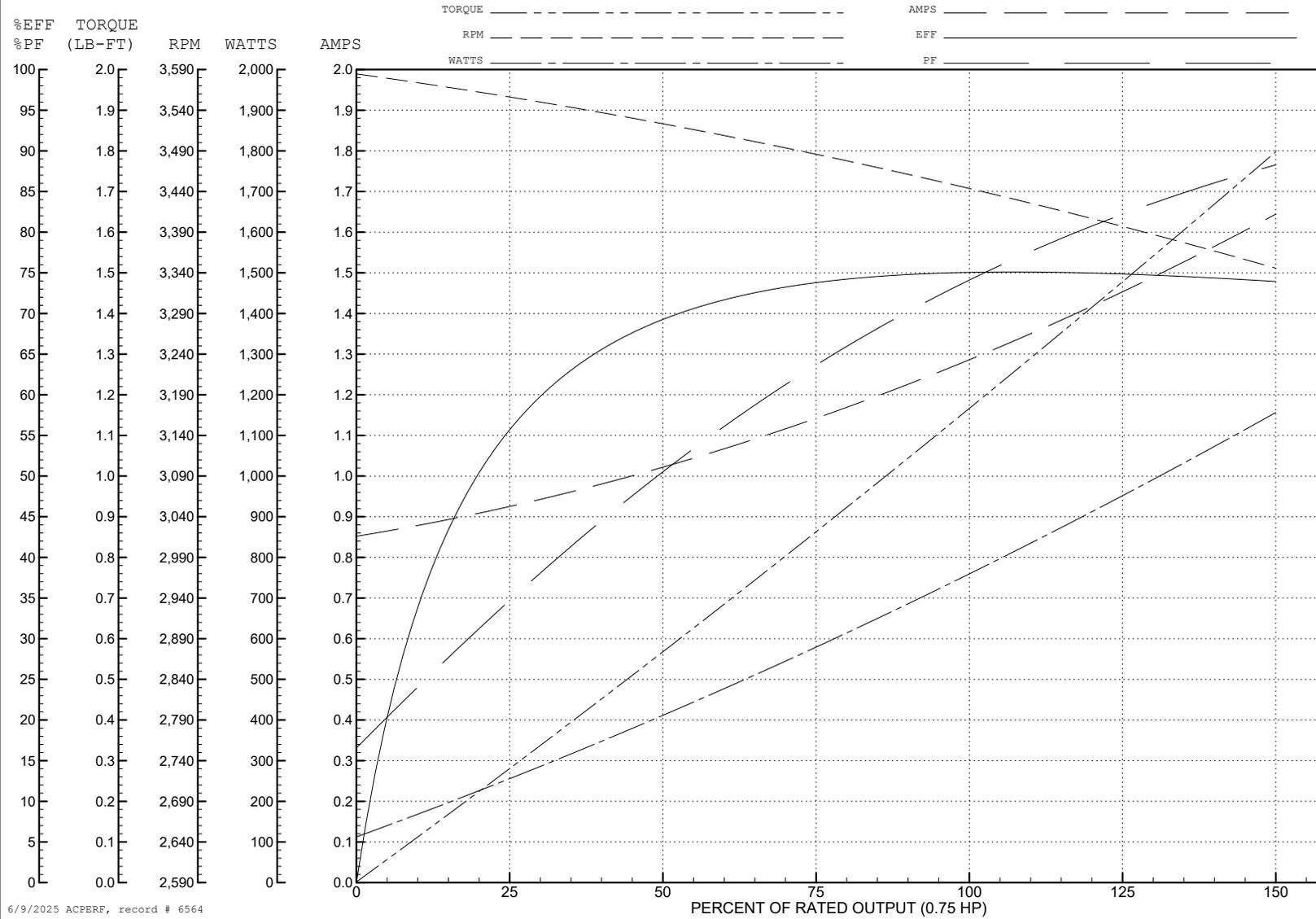
ABB Motors and Mechanical Inc.

WINDING # 34WG0255

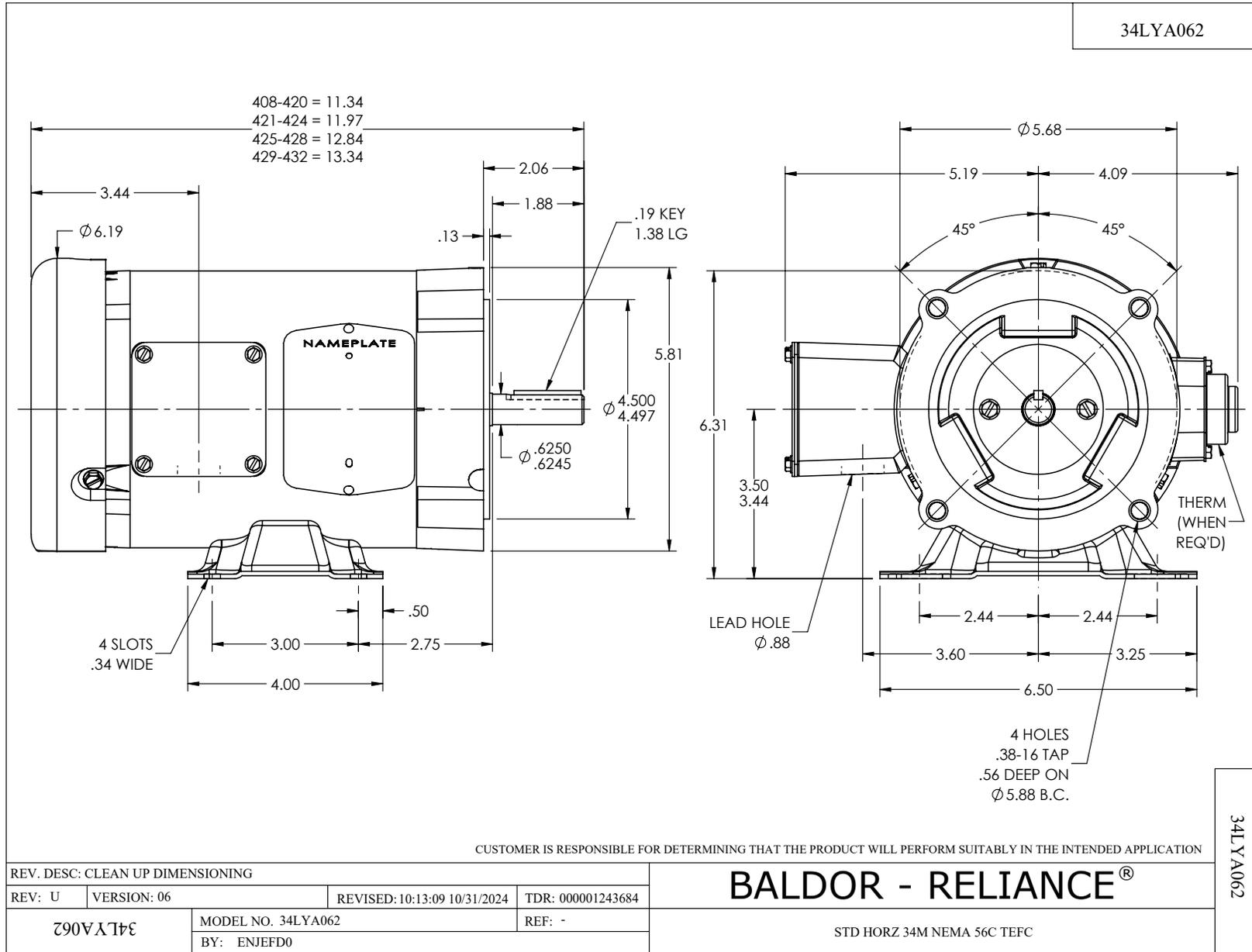
0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3413M

Typical performance - not guaranteed values.

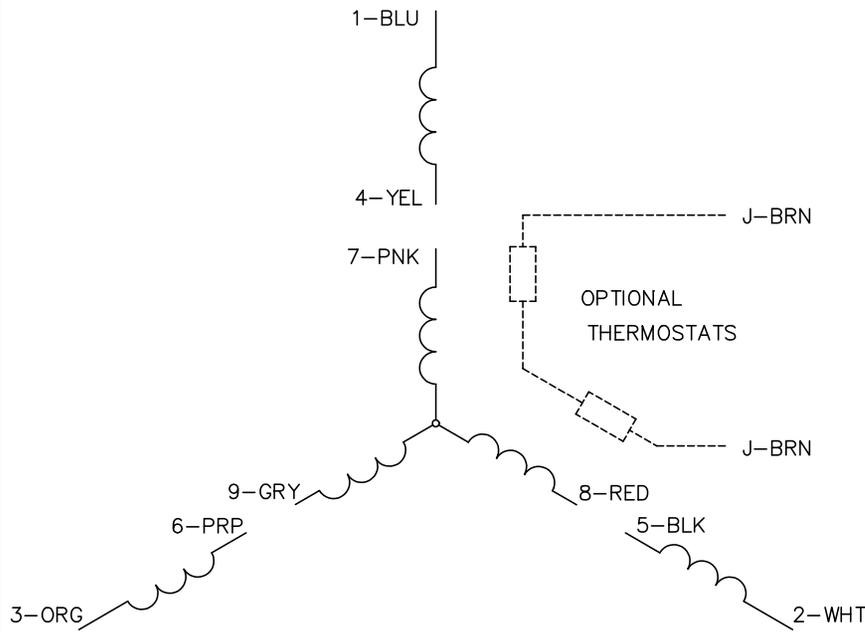
TORQUES (LB-FT): PO=4.8 PU=3.5 LR=3.9 LRA=7.6



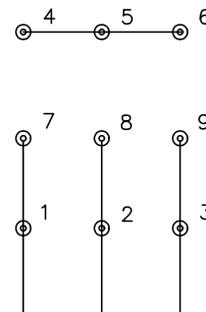
6/9/2025 ACPERF, record # 6564



CD0005

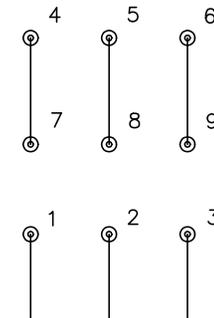


LOW VOLTAGE
(2Y)



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 |
| S00000 | | FILE: AAA00005140 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005