

BALDOR • RELIANCE

Customer information packet

CUHL3518

.5/.37KWHP, 1740RPM, 1PH, 60HZ, 56C, 3518LC, T

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 | Cap Start, Cap Run |
| Output @ Frequency | .500 HP @ 60 HZ |
| Phase | 1 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 115.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ |
| Agency Approvals | C UR US CE CURUS UKCA WEEE |
| 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 | 6.200 A @ 115.0 V 3.100 A @ 230.0 V 3.100 A @ 208.0 V |
| Design Code | N |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 72.0 % |
| Electrically Isolated Bearing | Not Electrically Isolated |

Part detail

| | |
|--------------|------------|
| Revision | J |
| Type | AC |
| Mech. spec. | 35E6093 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 35WGG588 |
| Layout | 35LYE6093 |
| Eff. date | 10-29-2024 |
| CD Diagram | CD0055 |
| Poles | 04 |
| Leads | 6#18 |
| Proprietary | False |
| Created date | 03-01-2023 |

| | |
|--------------------------------------|---------------------|
| Feedback Device | NO FEEDBACK |
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 3.1 a |
| Insulation Class | F |
| Inverter Code | Not Inverter |
| KVA Code | N |
| Lifting Lugs | No Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Motor Finish | CLEAR COAT |
| Motor Lead Quantity/Wire Size | 6 @ 18 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 3518LC |
| Mounting Arrangement | F3 |
| Number of Poles | 4 |
| Overall Length | 13.23 IN |
| Power Factor | 72 |
| Product Family | General Purpose |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | C-Face |
| Pulley Shaft Indicator | Standard |
| Rodent Screen | None |
| Service Factor | 1.15 |
| Shaft Diameter | 0.625 IN |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | No Slinger |
| Speed | 1740 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

| NP1372L | | | | | | | | | |
|-----------------------|--------------------------------|-----------------|-----------|------------|---|-----------|---|--|--|
| CAT.NO. | CUHL3518 | | | | | | | | |
| SPEC. | 35E6093G588 | | | | | | | | |
| HP | .5/.37KW | | | | | | | | |
| VOLTS | 115/208-230 | | | | | | | | |
| AMP | 6.2/3.1 | | | | | | | | |
| R.P.M. (1/MIN) | 1740 | | | | | | | | |
| FRAME | 56C | | HZ | 60 | | PH | 1 | | |
| SER.F. | 1.15 | CODE | N | DES | N | CL | F | | |
| NEMA-NOM-EFF | 72 | PF | 72 | | | | | | |
| RATING | 40C AMB-S1 CONT | | | | | | | | |
| CC | | IP44 KG19 IC411 | | | | | | | |
| DE | 6205 | ODE | 6203 | | | | | | |
| ENCL | TEFC | SN | | | | | | | |
| | IE2-60HZ 69.9 (75%),62.5 (50%) | | | | | | | | |

AC Induction Motor Performance Data

Record # 101468

Typical performance - not guaranteed values

| Winding: 35WGG588-R001 | | Type: 3518LC | | Enclosure: TEFC | |
|-------------------------------|-----------------|----------------------------|--|------------------------------|--------------------------------|
| Nameplate Data | | | 230 V, 60 Hz: High Voltage Connection | | |
| Rated Output (HP) | .5 | Full Load Torque | 1.509 LB-FT | | |
| Volts | 115/208-230 | Start Configuration | direct on line | | |
| Full Load Amps | 6.2/3.1 | Breakdown Torque | 4.66 LB-FT | | |
| R.P.M. | 1740 | Pull-up Torque | 3.43 LB-FT | | |
| Hz | 60 Phase | 1 | Locked-rotor Torque | 7.79 LB-FT | |
| NEMA Design Code | N | KVA Code | N | Starting Current | 25.3 A |
| Service Factor (S.F.) | 1.15 | | No-load Current | 2.25 A | |
| NEMA Nom. Eff. | 72 | Power Factor | 72 | Line-line Res. @ 25°C | 4.0719 Ω A Ph 1.6063 Ω B Ph |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 39°C | |
| S.F. Amps | 6.6/3.5-3.3 | | Temp. Rise @ S.F. Load | 44°C | |

Load Characteristics 230 V, 60 Hz, 0.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 39 | 53 | 64 | 72 | 78 | 83 | 76 |
| Efficiency | 46.3 | 62.5 | 69.9 | 73.2 | 74.2 | 73.6 | 73.8 |
| Speed | 1781.7 | 1768.9 | 1755.3 | 1740.7 | 1723.7 | 1704.2 | 1730 |
| Line amperes | 2.29 | 2.46 | 2.72 | 3.06 | 3.49 | 4 | 3.32 |

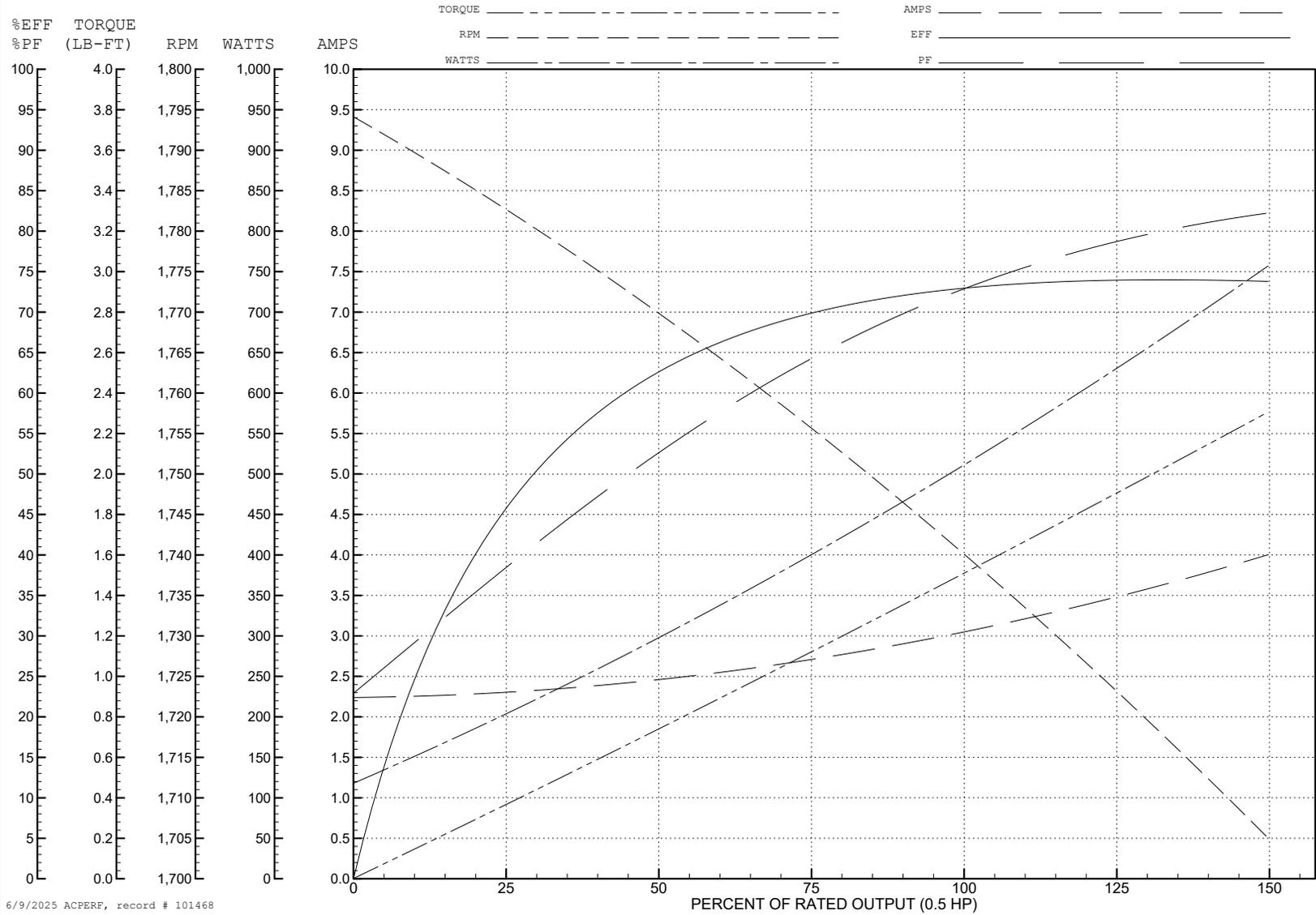
ABB Motors and Mechanical Inc.

WINDING # 35WGG588

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1740 RPM 230 V 3518LC

TORQUES (LB-FT): PO=4.66 PU=3.43 LR=7.79 LRA=25.3



6/9/2025 ACPERF, record # 101468

AC Induction Motor Performance Data

Record # 101469

Typical performance - not guaranteed values

| Winding: 35WGG588-R001 | | Type: 3518LC | Enclosure: TEFC | |
|------------------------|--------------------|-------------------------|--|--|
| Nameplate Data | | | 208 V, 60 Hz: High Voltage Connection | |
| Rated Output (HP) | .5 | Full Load Torque | 1.514 LB-FT | |
| Volts | 115/208-230 | Start Configuration | direct on line | |
| Full Load Amps | 6.2/3.1 | Breakdown Torque | 3.86 LB-FT | |
| R.P.M. | 1740 | Pull-up Torque | 2.78 LB-FT | |
| Hz | 60 Phase 1 | Locked-rotor Torque | 5.71 LB-FT | |
| NEMA Design Code | N KVA Code N | Starting Current | 22.1 A | |
| Service Factor (S.F.) | 1.15 | No-load Current | 1.85 A | |
| NEMA Nom. Eff. | 72 Power Factor 72 | Line-line Res. @ 25°C | 4.0972 Ω A Ph 1.6154 Ω B Ph | |
| Rating - Duty | 40C AMB-CONT | Temp. Rise @ Rated Load | 34°C | |
| S.F. Amps | 6.6/3.5-3.3 | Temp. Rise @ S.F. Load | 40°C | |

Load Characteristics 208 V, 60 Hz, 0.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|--------|------|--------|--------|--------|--------|------|
| Power Factor | 45 | 61 | 72 | 79 | 84 | 87 | 82 |
| Efficiency | 51.2 | 66.3 | 71.8 | 73.5 | 72.6 | 70.3 | 73 |
| Speed | 1778.5 | 1763 | 1745.6 | 1726.2 | 1701.3 | 1672.7 | 1711 |
| Line amperes | 1.95 | 2.21 | 2.58 | 3.05 | 3.66 | 4.36 | 3.42 |

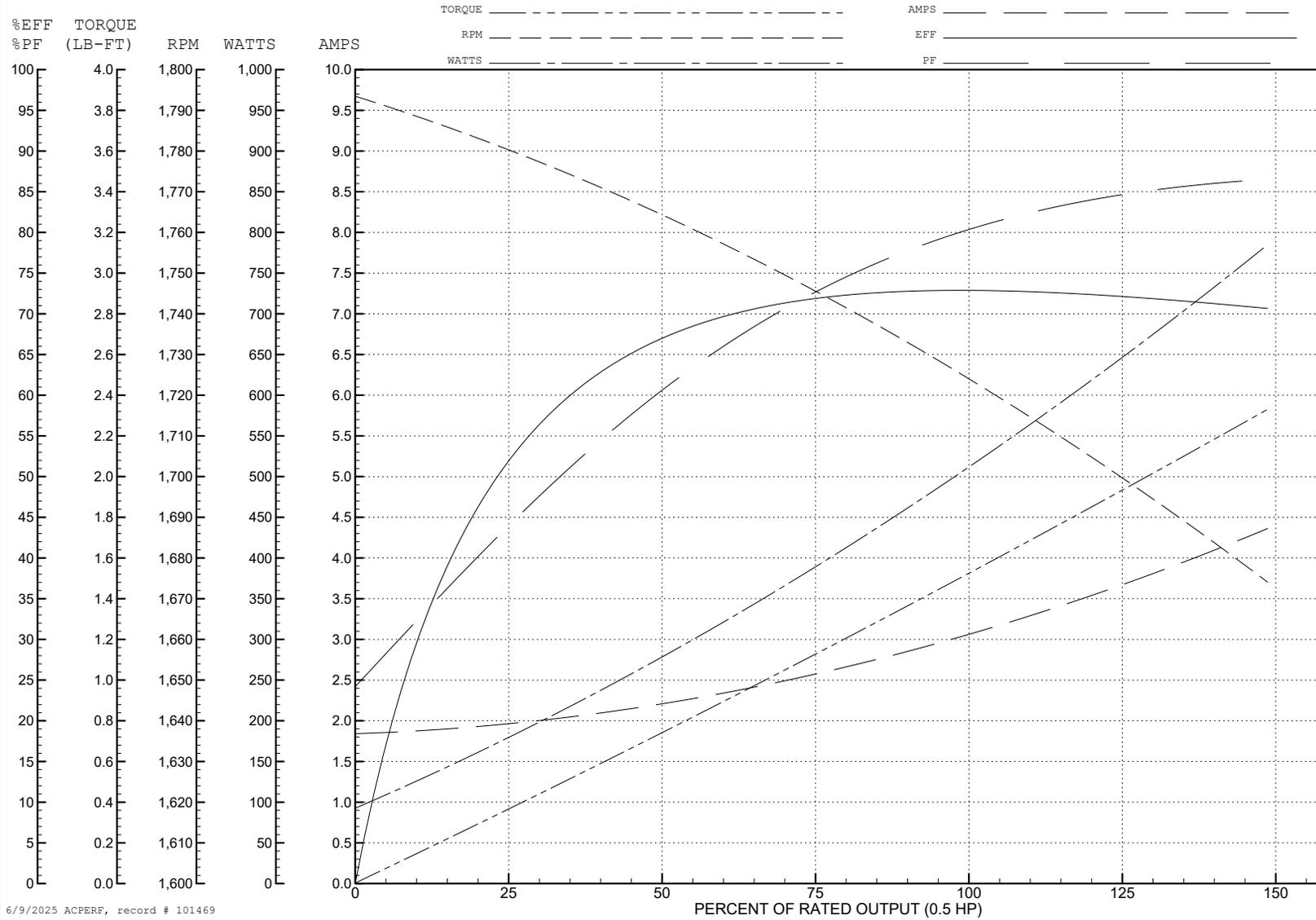
ABB Motors and Mechanical Inc.

WINDING # 35WGG588

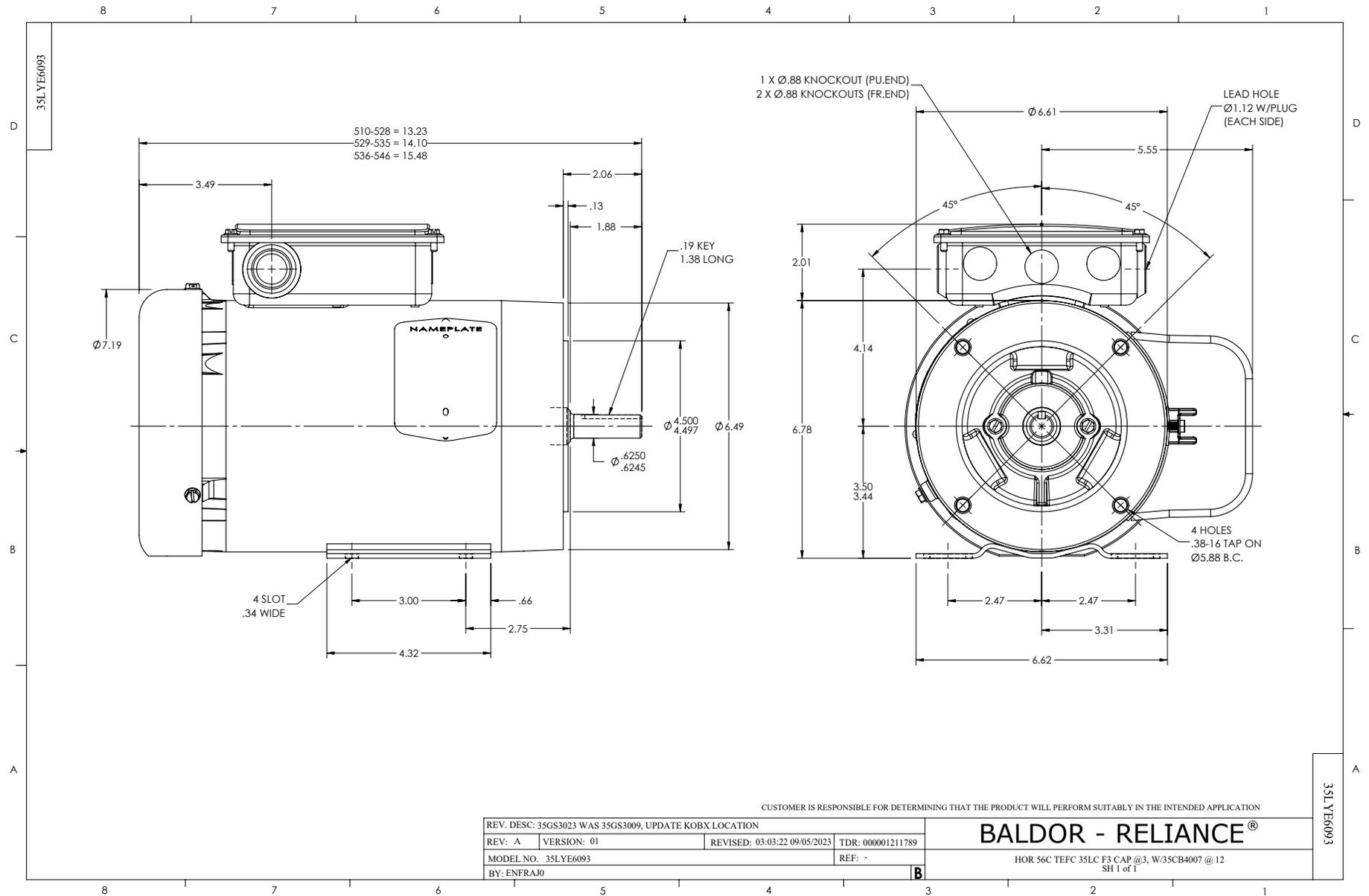
0.5 HP 1 PH 60 HZ 1740 RPM 208 V 3518LC

Typical performance - not guaranteed values.

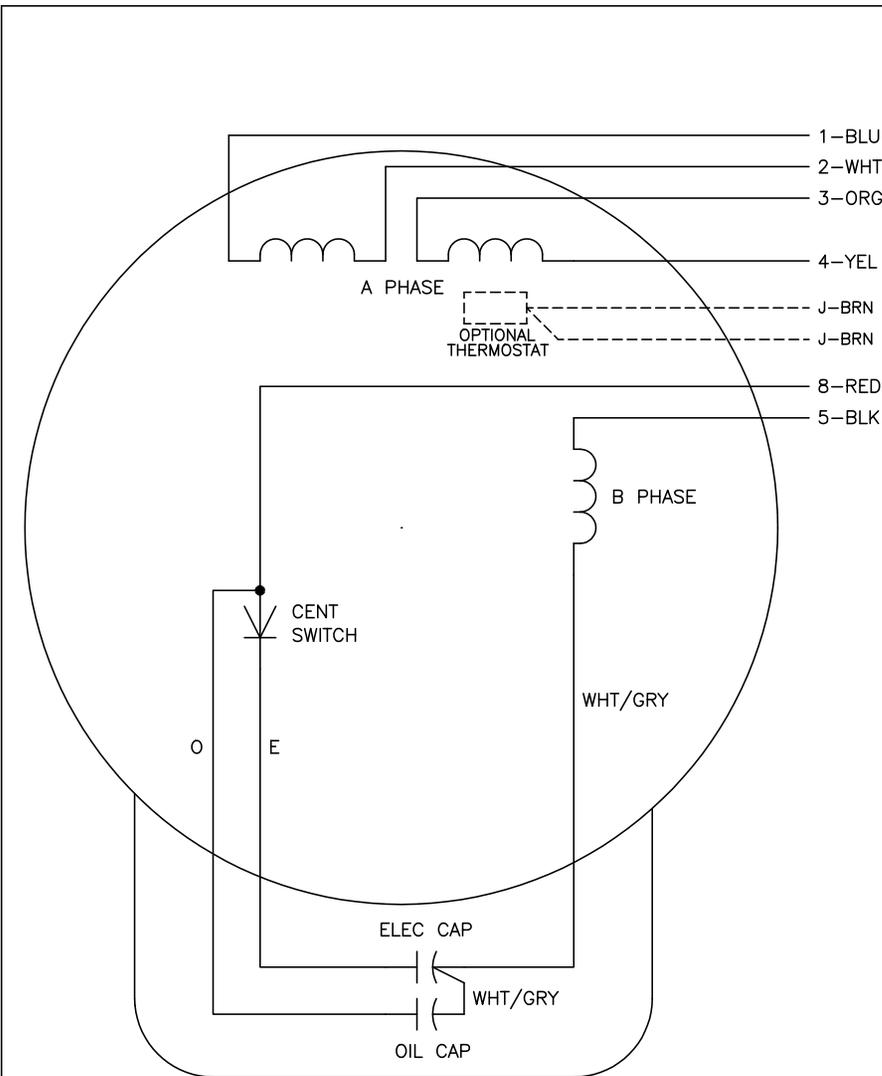
TORQUES (LB-FT): PO=3.86 PU=2.78 LR=5.71 LRA=22.1



6/9/2025 ACPERF, record # 101469



CD0055



| | LINE A | LINE B | JOIN |
|----------|--------|--------|-------|
| HIGH STD | 1 | 4,5 | 2,3,8 |
| HIGH OPP | 1 | 4,8 | 2,3,5 |
| LOW STD | 1,3,8 | 2,4,5 | - |
| LOW OPP | 1,3,5 | 2,4,8 | - |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0055

| | | | |
|---|---------|------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | |
| REV. LTR: D | BY: JLP | REVISED: 04/08/99 1:17 | TDR: 0178636 |
| C00000 | | FILE: AAA00007414 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

TYPE LC, DV, REV, 6 LEADS