



Customer information packet

VM3542-57

.75HP, 1425 IP54RPM, 3PH, 50HZ, 56C, 3428M, TE

Class - None

Division - Not Applicable

Specifications

| | |
|--------------------------------|--|
| Enclosure | TEFC |
| Frame | 56C |
| Frame Material | Steel |
| Frequency | 50.00 Hz |
| Haz Area Class and Group | None |
| Haz Area Division | Not Applicable |
| Motor Letter Type | Three Phase |
| Output @ Frequency | .750 HP @ 50 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1500 RPM @ 50 HZ |
| Voltage @ Frequency | 400.0 V @ 50 HZ 230.0 V @ 50 HZ |
| Agency Approvals | CE CSA UR WEEE |
| Ambient Temperature | 40 °C |
| Auxillary Box | No Auxillary Box |
| Auxillary Box Lead Termination | None |
| Base Indicator | No Mounting |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Blower | None |
| Current @ Voltage | 1.800 A @ 400.0 V 3.100 A @ 230.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 75.5 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device | NO FEEDBACK |
| Front Face Code | Standard |
| Front Shaft Indicator | None |

Part detail

| | |
|--------------|------------|
| Revision | U |
| Type | AC |
| Mech. spec. | 34A063 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 34WG3996 |
| Layout | 34LYA063 |
| Eff. date | 02-10-2025 |
| CD Diagram | CD0022 |
| Poles | 04 |
| Leads | 6#18 |
| Proprietary | False |
| Created date | 09-08-2011 |

| | |
|-------------------------------|---------------------|
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 1.8 a |
| Insulation Class | F |
| Inverter Code | Not Inverter |
| KVA Code | L |
| Lifting Lugs | No Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Motor Lead Exit | Ko Box |
| Motor Lead Quantity/Wire Size | 6 @ 18 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 3428M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 12.85 IN |
| Power Factor | 59 |
| Product Family | General Purpose |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | C-Face |
| 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 | 1425 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. | VM3542-57 | | | | | | | | | |
| SPEC. | 34A063-3996G2 | | | | | | | | | |
| HP | .75/KW .56 | | | | | | | | | |
| VOLTS | 230/400 | | | | | | | | | |
| AMP | 3.1/1.8 SFA 3.5/2 | | | | | | | | | |
| R.P.M. (1/MIN) | 1425 | | | | | | | | | |
| FRAME | 56C | | HZ | 50 | | PH | 3 | | | |
| SER.F. | 1.25 | CODE | L | DES | B | CL | F | | | |
| NEMA-NOM-EFF | 75.5 | PF | 59 | | | | | | | |
| RATING | 40C AMB-S1 CONT | | | | | | | | | |
| CC | | | IP44 KG15 IC411 | | | | | | | |
| DE | 6203 | | ODE | 6203 | | | | | | |
| ENCL | TEFC | SN | | | | | | | | |
| | IE2-76.0(75%)69.9(50%) | | | | | | | | | |

AC Induction Motor Performance Data

Record # 35183

Typical performance - not guaranteed values

| Winding: 34WG3996-R006 | | Type: 3428M | | Enclosure: TEFC | |
|-------------------------------|-------------------|----------------------------|--|---------------------------|------------------------------|
| Nameplate Data | | | 400 V, 50 Hz: High Voltage Connection | | |
| Rated Output (HP) | .75 | Full Load Torque | 2.71 LB-FT | | |
| Volts | 230/400 | Start Configuration | direct on line | | |
| Full Load Amps | 3.1/1.8 | Breakdown Torque | 13.3 LB-FT | | |
| R.P.M. | 1425 | Pull-up Torque | 8.9 LB-FT | | |
| Hz | 50 Phase | 3 | Locked-rotor Torque | 9.78 LB-FT | |
| NEMA Design Code | B KVA Code | L | Starting Current | 10.5 A | |
| Service Factor (S.F.) | 1.25 | | No-load Current | 1.4 A | |
| NEMA Nom. Eff. | 75.5 | Power Factor | 59 | | Line-line Res. @ 25°C |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | | |
| S.F. Amps | 3.5/2 | | Temp. Rise @ S.F. Load | | |
| | | | Locked-rotor Power Factor | 60 | |
| | | | Rotor inertia | 0.0667 LB-FT ² | |

Load Characteristics 400 V, 50 Hz, 0.75 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 26 | 39 | 50 | 59 | 67 | 72 | 67 |
| Efficiency | 55.9 | 69.9 | 76 | 78.5 | 80.1 | 80.4 | 80.1 |
| Speed | 1487 | 1476 | 1465 | 1452 | 1439 | 1425 | 1439 |
| Line amperes | 1.42 | 1.49 | 1.6 | 1.74 | 1.9 | 2.1 | 1.9 |

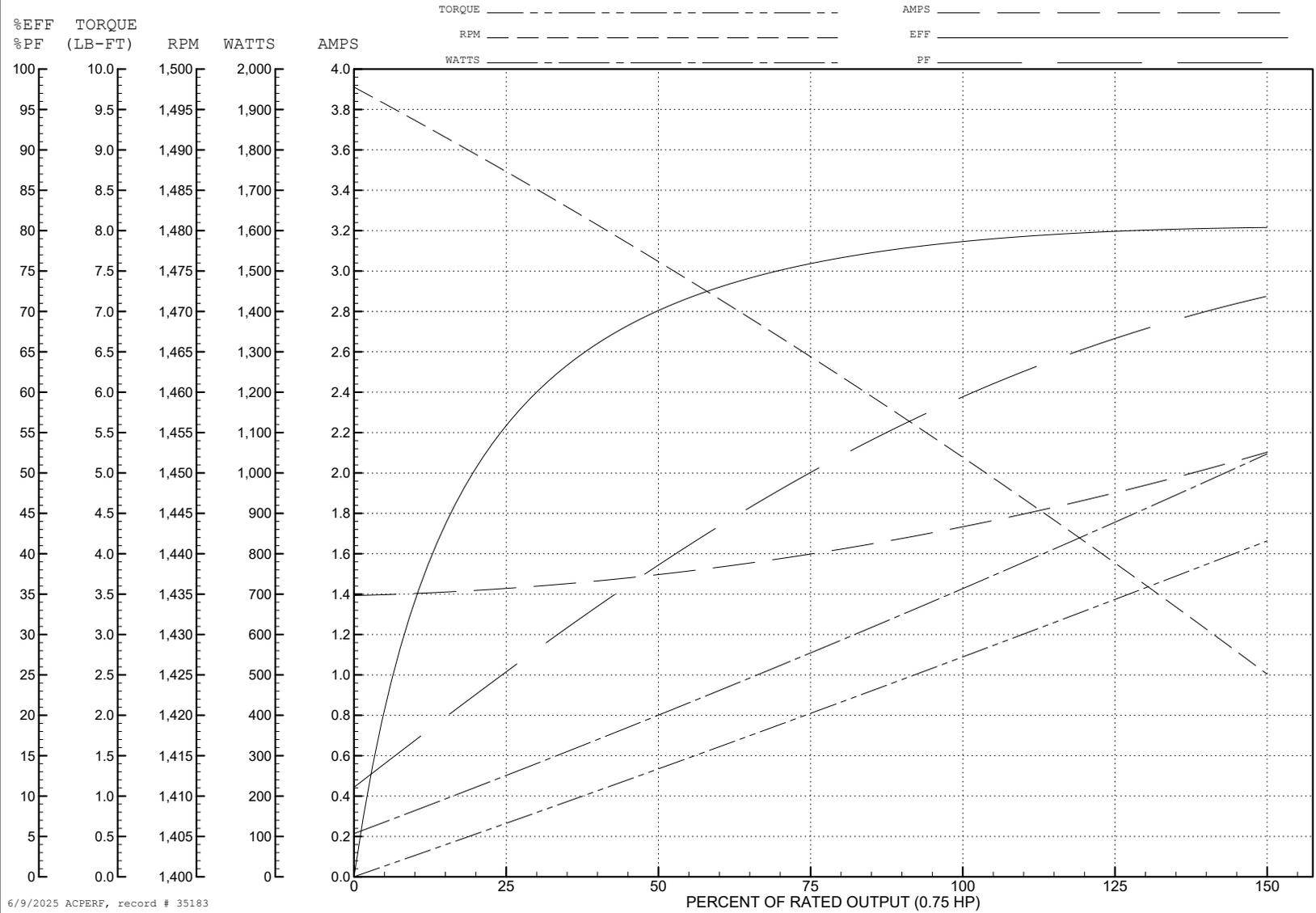
ABB Motors and Mechanical Inc.

WINDING # 34WG3996

Typical performance - not guaranteed values.

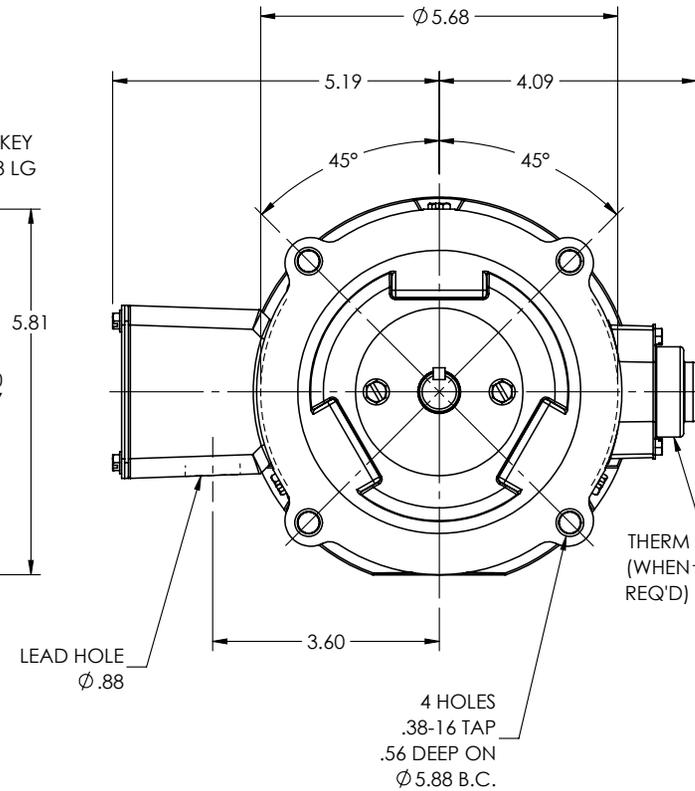
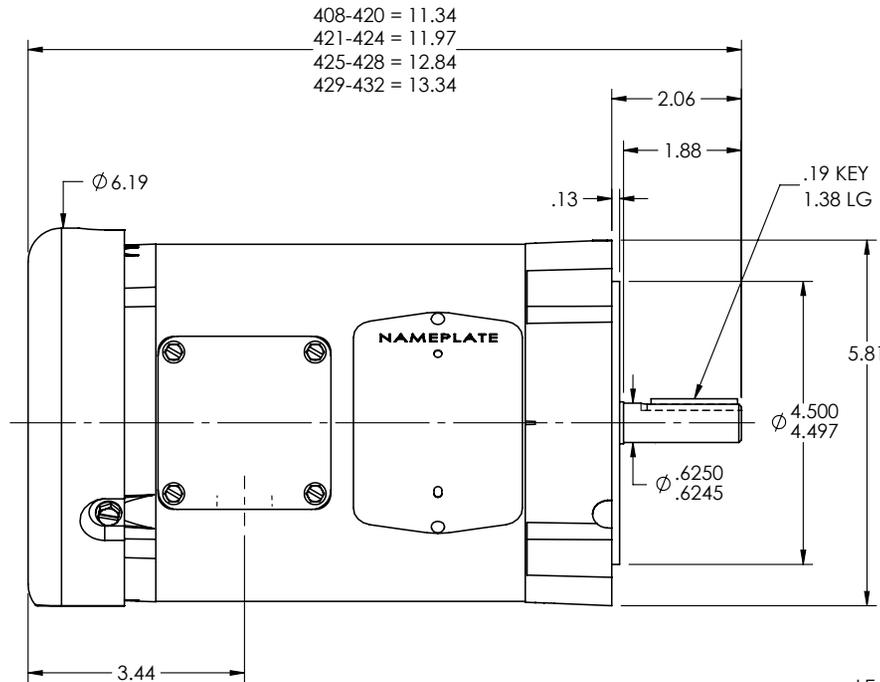
0.75 HP 3 PH 50 HZ 1425 RPM 400 V 3428M

TORQUES (LB-FT): PO=13.3 PU=8.9 LR=9.78 LRA=10.5



6/9/2025 ACPERF, record # 35183

34LYA063



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: CLEAN UP DIMENSIONING

| | | | |
|--------|-------------|------------------------------|-------------------|
| REV: P | VERSION: 05 | REVISED: 08:51:08 10/31/2024 | TDR: 000001243684 |
|--------|-------------|------------------------------|-------------------|

34LYA063

MODEL NO. 34LYA063
 BY: ENJEFD0

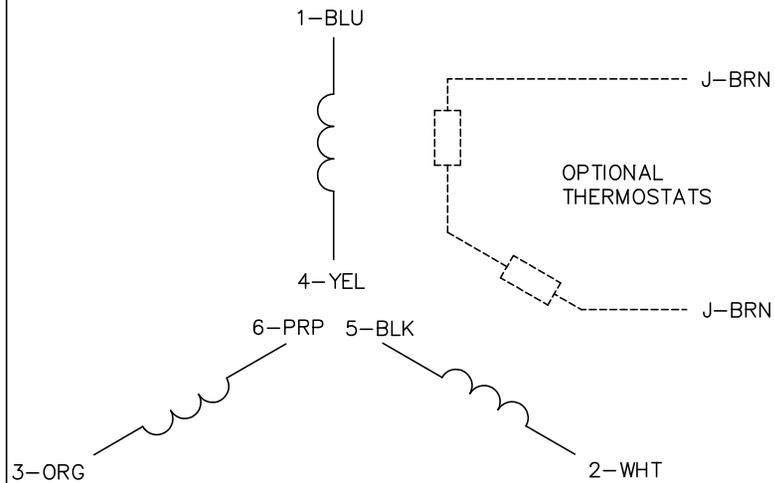
REF: -

BALDOR - RELIANCE®

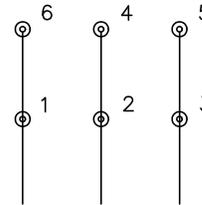
STD VERT 34M NEMA 56C TEFC

34LYA063

CD0022

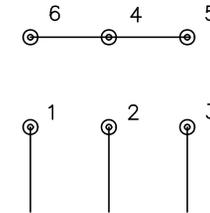


LOW VOLTAGE
(1D)



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: F | BY: JLP | REVISED: 01/21/99 3:54 | TDR: 0171435 |
| CD0022 | | FILE: AAA00005144 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022