

BALDOR® • RELIANCE®

Customer information packet

VSWDM3542

.75HP, 1765RPM, 3PH, 60HZ, 56C, 3514M, TENV, F1

Class - None

Division - Not Applicable

Specifications

| | |
|--------------------------------|---|
| Enclosure | TENV |
| Frame | 56C |
| Frame Material | Stainless Steel |
| Frequency | 60.00 Hz |
| Motor Letter Type | Three Phase |
| Output @ Frequency | .750 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 230.0 V @ 60 HZ 460.0 V @ 60 HZ |
| XP Class and Group | None |
| XP Division | Not Applicable |
| Agency Approvals | CSA UR |
| 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 | 1.140 A @ 460.0 V 2.280 A @ 230.0 V 2.400 A @ 208.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 82.5 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device | NO FEEDBACK |
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |
| High Voltage Full Load Amps | 1.1 a |

Part detail

| | |
|--------------|------------|
| Revision | D |
| Type | AC |
| Mech. spec. | 35S617 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 35WGG069 |
| Layout | 35LYS617 |
| Eff. date | 09-11-2023 |
| CD Diagram | CD0005 |
| Poles | 04 |
| Leads | 9#18 |
| Proprietary | False |
| Created date | 01-10-2022 |

| | |
|--------------------------------------|----------------------|
| Insulation Class | F |
| Inverter Code | Not Inverter |
| KVA Code | K |
| Lifting Lugs | No Lifting Lugs |
| Locked Bearing Indicator | Locked Bearing |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG |
| Motor Lead Termination | Flying Leads |
| Motor Standards | NEMA |
| Motor Type | 3514M |
| Mounting Arrangement | F1 |
| Number of Poles | 4 |
| Overall Length | 11.06 IN |
| Power Factor | 74 |
| Product Family | Wash Down Paint Free |
| Pulley End Bearing Type | Sealed Bearing |
| Pulley Face Code | C-Face |
| Pulley Shaft Indicator | Standard |
| Rodent Screen | None |
| Service Factor | 1.25 |
| Shaft Diameter | 0.625 IN |
| Shaft Ground Indicator | No Shaft Grounding |
| Shaft Rotation | Reversible |
| Shaft Slinger Indicator | No Slinger |
| Speed | 1765 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

| NP1496L | | | | | | | | | |
|---------------------|---------------|-------------|------------|------------|---|--------------|---|--|--|
| CAT.NO. | VSWDM3542 | | | | | | | | |
| SPEC. | 35S617G069G1 | | | | | | | | |
| HP | .75 | | | | | | | | |
| VOLTS | 230/460 | | | | | | | | |
| AMP | 2.42/2.42 | | | | | | | | |
| RPM | 1765 | | | | | | | | |
| FRAME | 56C | | HZ | 60 | | PH | 3 | | |
| SER.F. | 1.25 | CODE | K | DES | B | CLASS | F | | |
| NEMA-NOM-EFF | 82.5 | PF | 74 | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | |
| CC | | | | | | | | | |
| DE | 6205 | | ODE | 6203 | | | | | |
| ENCL | TENV | SN | | | | | | | |
| | SFA 2.68/1.34 | | | | | | | | |

Parts list

| Part number | Description | Quantity |
|--------------|---|----------|
| SA402462 | SA 35S617G069G1 | 1.000 ea |
| RA393739 | RA 35S617G069G1 | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB5001A03 | CONDUIT BOX KIT, FOR SUPER II WASHDOWN | 1.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3122D00U | MASTER ODE,203 BRG, .125NPT DRNS(BALL BUR | 1.000 ea |
| HW4500S33 | 1/8 NPT STAINLESS #304 SS PLUG | 3.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3307E00U | MASTER DE,205 BRG,1.623SH, .125NPT DRNS,C | 1.000 ea |
| HW4500S33 | 1/8 NPT STAINLESS #304 SS PLUG | 3.000 ea |
| HW4606A02 | JM CLIPPER/SEAL (LWE-0938-1624-AL23) | 1.000 ea |
| 12XN1032S20 | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 ea |
| HA1049A01 | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 4.000 ea |
| HA1049A01 | DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL | 2.000 ea |
| HW2502D13 | SS KEY, 3/16 SQ X 1.375 | 1.000 ea |
| HA7000A04 | KEY RETAINER 0.625 DIA SHAFTS | 1.000 ea |
| MJ5001A02 | 732 CL SEALANT 3 OZ DIXIE BEARING 289100 | 0.001 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| LB1164 | LABEL,WARNING AND DRAIN | 1.000 ea |
| HA5027A02 | HA4054 T-DRAIN X2 BAGGED WITH LABEL | 1.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| HA3100S12 | THRUBOLT 7.625 LENGTH 1.250 TH LENGTH SS | 4.000 ea |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| NP1496L | SS WD UL CC | 1.000 ea |
| 35PA1066 | PKG GRP, PRINT PK1008A06 | 1.000 ea |
| PK3082 | STYROFOAM CRADLE | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2100bx)4/22 | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 ea |
| PE-0000001 | ZRTG PE ASSEMBLY | 1.000 ea |

AC Induction Motor Performance Data

Record # 87322

Typical performance - not guaranteed values

| Winding: 35WGG069-R009 | | Type: 3514M | | Enclosure: TENV | |
|-------------------------------|--------------------------|----------------------------|--|--------------------------|--|
| Nameplate Data | | | 460 V, 60 Hz: High Voltage Connection | | |
| Rated Output (HP) | .75 | Full Load Torque | 2.24 LB-FT | | |
| Volts | 230/460 | Start Configuration | direct on line | | |
| Full Load Amps | 2.42/2.42 | Breakdown Torque | 8 LB-FT | | |
| R.P.M. | 1765 | Pull-up Torque | 4.4 LB-FT | | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 5.1 LB-FT | |
| NEMA Design Code | B KVA Code | K | Starting Current | 8.4 A | |
| Service Factor (S.F.) | 1.25 | | No-load Current | 0.85 A | |
| NEMA Nom. Eff. | 82.5 Power Factor | 74 | Line-line Res. @ 25°C | 30.3 Ω | |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 59°C | |
| S.F. Amps | 2.8/1.4 | | Temp. Rise @ S.F. Load | 69°C | |
| | | | Locked-rotor Power Factor | 66.8 | |
| | | | Rotor inertia | 0.101 lb-ft ² | |

Load Characteristics 460 V, 60 Hz, 0.75 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 30 | 48 | 61 | 70 | 77 | 81 | 80 |
| Efficiency | 68.4 | 79 | 82.2 | 82.9 | 82.4 | 81.2 | 82.8 |
| Speed | 1791 | 1783 | 1775 | 1766 | 1757 | 1746 | 1752 |
| Line amperes | 0.87 | 0.95 | 1.06 | 1.21 | 1.4 | 1.61 | 1.34 |

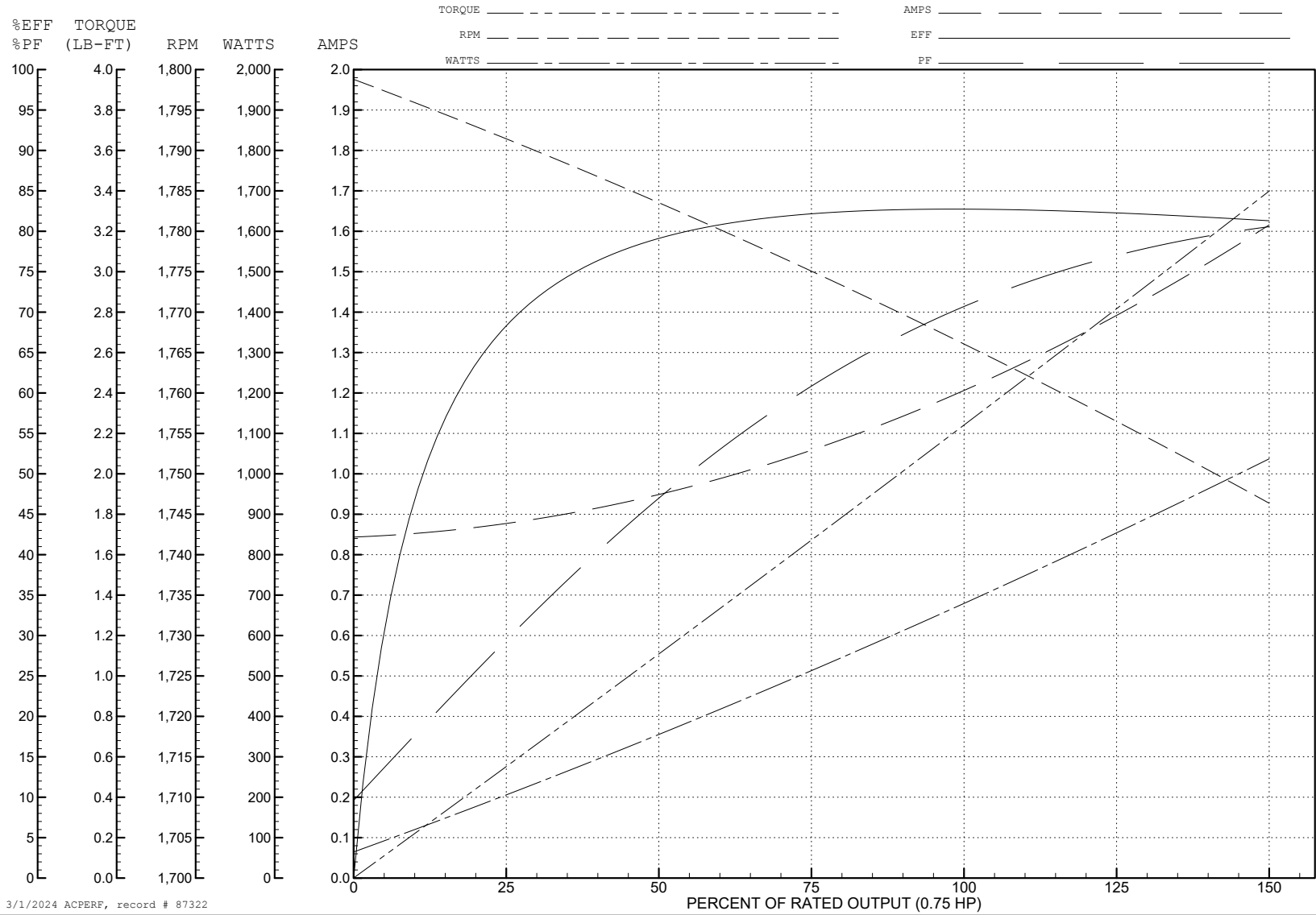
ABB Motors and Mechanical Inc.

WINDING # 35WGG069

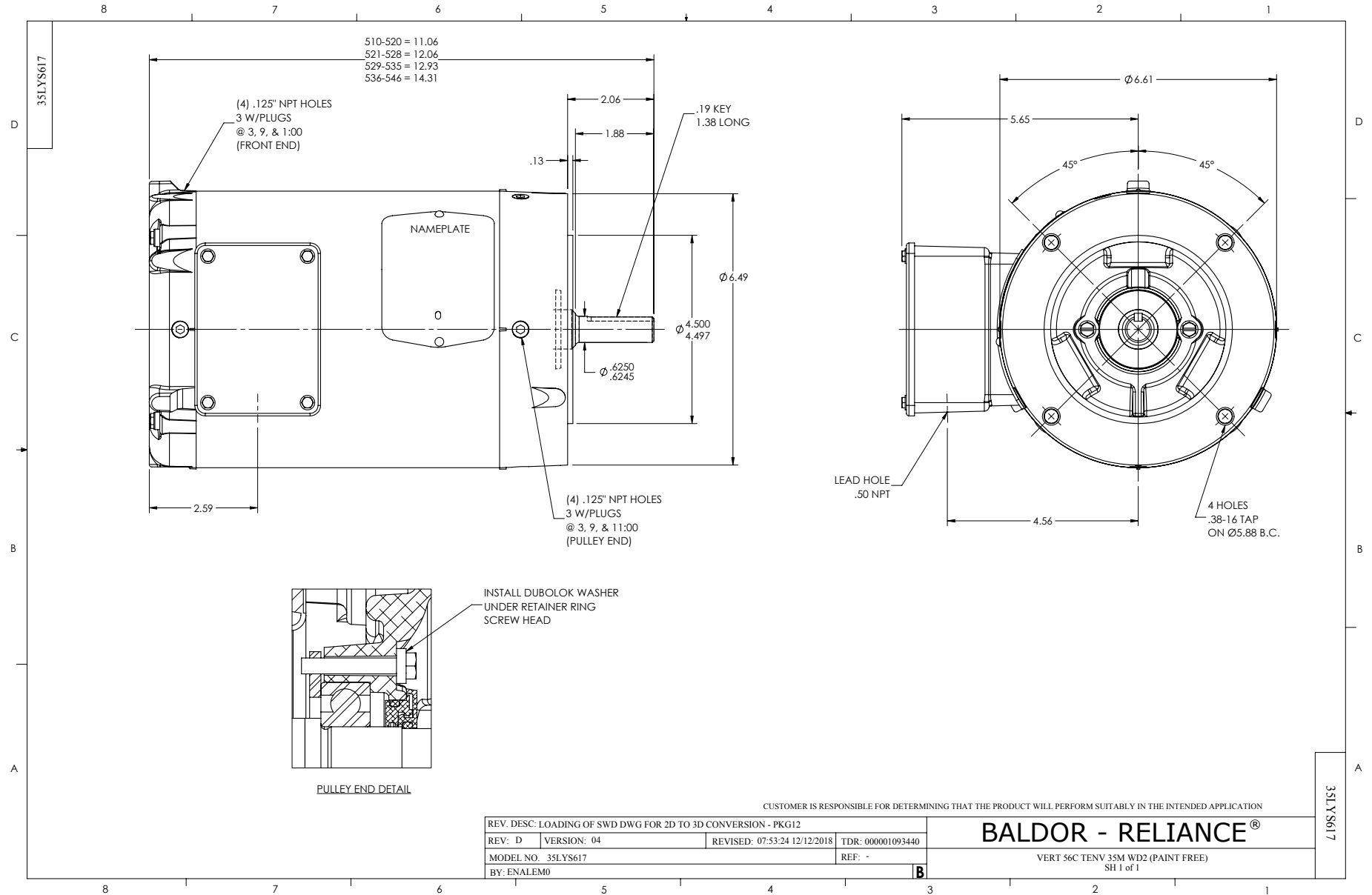
0.75 HP 3 PH 60 HZ 1765 RPM 460 V 3514M

Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=8 PU=4.4 LR=5.1 LRA=8.4



3/1/2024 ACPERF, record # 87322



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.

CD0005

| | | | |
|---|---------|-------------------------|--------------|
| 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