



Customer information packet

M3538/35

.5HP, 1775RPM, 3PH, 60HZ, 56, 3514M, TEFC, F1, N

A

Class - None

Division - Not Applicable

Specifications

| | |
|--------------------------------|---|
| Enclosure | TEFC |
| Frame | 56 |
| 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 | .500 HP @ 60 HZ |
| Phase | 3 |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ |
| Voltage @ Frequency | 208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ |
| Agency Approvals | CSA UR |
| Ambient Temperature | 40 °C |
| Auxiliary Box | NO AUXILLARY BOX |
| Auxiliary Box Lead Termination | None |
| Base Indicator | Rigid |
| Bearing Grease Type | Polyrex EM (-20F +300F) |
| Blower | None |
| Current @ Voltage | 2.020 A @ 230.0 V 1.900 A @ 208.0 V 1.010 A @ 460.0 V |
| Design Code | B |
| Drip Cover | No Drip Cover |
| Duty Rating | CONT |
| Efficiency @ 100% Load | 81.5 % |
| Electrically Isolated Bearing | Not Electrically Isolated |
| Feedback Device | NO FEEDBACK |
| Front Shaft Indicator | None |
| Heater Indicator | No Heater |

Part detail

| | |
|--------------|------------|
| Revision | E |
| Type | AC |
| Mech. spec. | 35A011 |
| Base | |
| Status | PRD/A |
| Elec. spec. | 35WGG069 |
| Layout | 35LYA011 |
| Eff. date | 01-02-2026 |
| CD Diagram | CD0005 |
| Poles | 04 |
| Leads | 9#18 |
| Proprietary | False |
| Created date | 09-15-2023 |

| | |
|-------------------------------|---------------------|
| High Voltage Full Load Amps | 1.0 a |
| Insulation Class | F |
| Inverter Code | Not Inverter |
| KVA Code | N |
| Lifting Lugs | No Lifting Lugs |
| Locked Bearing Indicator | No 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 | 12.22 IN |
| Power Factor | 63 |
| Product Family | General Purpose |
| Pulley End Bearing Type | Ball |
| Pulley Face Code | Standard |
| 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 | 1775 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. | M3538/35 | | | | | | | | |
| SPEC. | 35A011G069G3 | | | | | | | | |
| HP | .5 | | | | | | | | |
| VOLTS | 208-230/460 | | | | | | | | |
| AMP | 1.9-2.02/1.01 | | | | | | | | |
| RPM | 1775 | | | | | | | | |
| FRAME | 56 | | HZ | 60 | | PH | 3 | | |
| SER.F. | 1.15 | CODE | N | DES | B | CLASS | F | | |
| NEMA-NOM-EFF | 81.5 | PF | 63 | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | |
| CC | | | | | | | | | |
| DE | 6205 | | ODE | 6203 | | | | | |
| ENCL | TEFC | SN | | | | | | | |
| | SFA 2-2.2/1.1 | | | | | | | | |

Parts list

| Part number | Description | Quantity |
|----------------|--|----------|
| SA418474 | SA 35A011G069G3 | 1.000 ea |
| RA410377 | RA 35A011G069G3 | 1.000 ea |
| 34FN3002B01 | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/ | 1.000 ea |
| S/P111-000-002 | CORONA TEST, SUPER E MOTORS - FT. SMITH | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 35CB3007 | 35 CB CASTING W/.88 DIA. LEAD HOLE | 1.000 ea |
| 36GS1000SP | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 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 |
| 35EP3122K00 | MASTER ODE,203 BRG.,683SH,#26 DRN,FH MTG | 1.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 35EP3123A00 | MASTER DE,205 BRG.,998SH,#26 DRN | 1.000 ea |
| XY1032A02 | 10-32 HEX NUT DIRECTIONAL SERRATION | 4.000 ea |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| 35FH4005A32 | IEC FH NO GRSR W/3 HOLES - PRIMED | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 35CB4521GX | CONDUIT BOX LID KIT **ORDER INDIV PARTS | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| MG1050G01 | CELEROL MEDIUM CHARCOAL METALLIC GRAY | 0.017 ga |
| HA3100A15 | THRUBOLT 10-32 X 8.375 | 4.000 ea |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| NP1256L | ALUM UL CC INDUSTRIAL MOTOR A60 | 1.000 ea |
| 35PA1066 | PKG GRP, PRINT PK1008A06 | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/22 | 1.000 ea |
| HW2501D13 | KEY, 3/16 SQ X 1.375 | 1.000 ea |
| HA7000A04 | KEY RETAINER 0.625 DIA SHAFTS | 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 # 101693

Typical performance - not guaranteed values

| Winding: 35WGG069-R085 | | Type: 3514M | | Enclosure: TEFC | |
|-------------------------------|--------------------------|--------------------|--|--------------------------|--|
| Nameplate Data | | | 460 V, 60 Hz: High Voltage Connection | | |
| Rated Output (HP) | .5 | | Full Load Torque | 1.48 LB-FT | |
| Volts | 208-230/460 | | Start Configuration | direct on line | |
| Full Load Amps | 1.9-2.02/1.01 | | Breakdown Torque | 8 LB-FT | |
| R.P.M. | 1775 | | Pull-up Torque | 4.4 LB-FT | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 5.1 LB-FT | |
| NEMA Design Code | B KVA Code | N | Starting Current | 8.4 A | |
| Service Factor (S.F.) | 1.15 | | No-load Current | 0.85 A | |
| NEMA Nom. Eff. | 81.5 Power Factor | 63 | Line-line Res. @ 25°C | 30.3 Ω | |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 23°C | |
| S.F. Amps | | | Temp. Rise @ S.F. Load | 25°C | |
| | | | Locked-rotor Power Factor | 66.8 | |
| | | | Rotor inertia | 0.101 lb-ft ² | |

Load Characteristics 460 V, 60 Hz, 0.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 24 | 37 | 48 | 58 | 65 | 71 | 62 |
| Efficiency | 58.9 | 72.5 | 78.4 | 80.5 | 81.6 | 81.5 | 81.2 |
| Speed | 1793 | 1788 | 1782 | 1776 | 1771 | 1763 | 1773 |
| Line amperes | 0.85 | 0.89 | 0.94 | 1.01 | 1.11 | 1.21 | 1.07 |

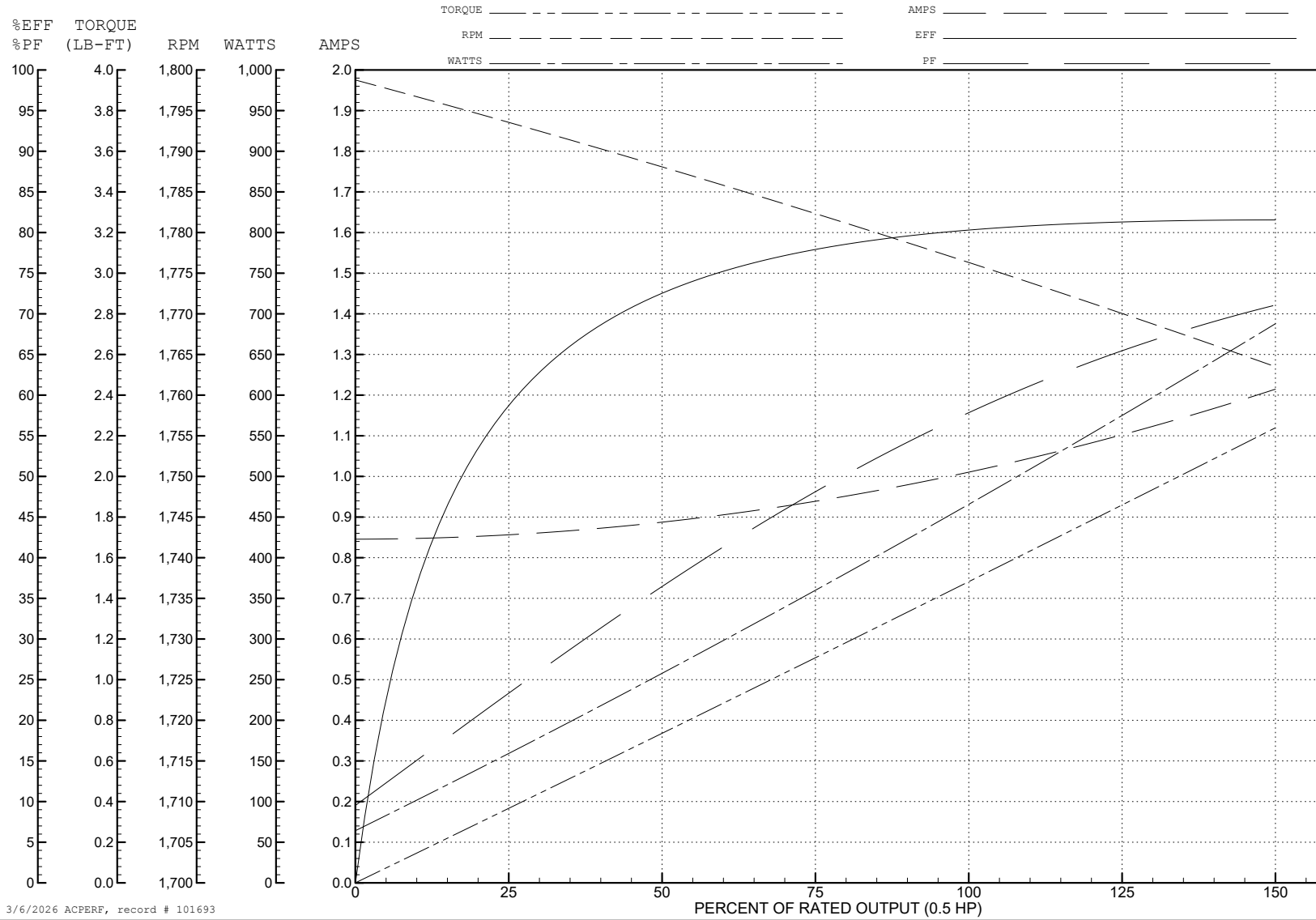
ABB Motors and Mechanical Inc.

WINDING # 35WGG069

0.5 HP 3 PH 60 HZ 1775 RPM 460 V 3514M

Typical performance - not guaranteed values.

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



3/6/2026 ACPERF, record # 101693

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

500000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS