



APPENDIX

UL Standards for AZ Series AC power input type

この付属書は、UL規格の認証に必要な情報を記載しています。
 This appendix describes the information required for UL recognition.
 本附録に記載著UL規格認証必需的資訊。
 本附録中记载着UL规格认证必需的信息。
 이 부속서에는 UL 규격 인증에 필요한 정보가 기재되어 있습니다.

This product is recognized by UL.
 This information is important when you use this product as Recognized Component by UL.

■ Applicable Standards

| | Certification Body | File No. |
|--------|--------------------|----------|
| Motor | UL | E336472 |
| Driver | | E171462 |

■ Compliance with UL Standards

● Motor

AZ Series motor (AC power input type) is recognized under UL 1004-1, UL 1004-6 based on the condition shown herein.

- Insulation system class: A

Specification

The following table shows the stepping motor specifications (maximum voltage, maximum current, heat sink size, holding torque and maximum speed).

- The box (■) in the model name indicates blank or any number.

| Motor model *1 | Maximum voltage [V] | Maximum current [A] | Heat sink size [mm] *2 | Holding torque [N·m] | Maximum speed [r/min] |
|------------------------|---------------------|---------------------|------------------------|----------------------|-----------------------|
| AZM46A■C AZM46M■C | 340 | 0.49 | 115×115×5 | 0.3 | 4,500 |
| AZM48A■C | | 0.56 | 150×150×6 | 0.77 | |
| AZM66A■C AZM66M■C | | 0.74 | 250×250×6 | 1.2 | |
| AZM69A■C AZM69M■C | | 0.92 | | 2 | |
| AZM98A■C AZM98M■C | | 1.13 | | 2 | |
| AZM911A■C AZM911M■C | | 1.27 | | 4 | |

*1 All models may or may not be followed by a hyphen and/or any letters and/or any numbers.

*2 The material of the heat sink is aluminum.

● Driver

Input/output power ratings

- The box (■) in the model name indicates blank or any number.

| Motor model * | Driver model | Input | | | Output current [A] |
|------------------------|--|------------------------|-------------|-----------|--------------------|
| | | Voltage | Current [A] | Frequency | |
| AZM46A■C AZM46M■C | AZD-A AZD-AD AZD-AED AZD-AEP AZD-AM3 AZD-APN AZM98A■C AZM98M■C AZD-AS3 AZD-AX | Single-phase 100-120 V | 2.7 | 50/60 Hz | 0.49 |
| AZM48A■C | | | 2.7 | | 0.56 |
| AZM66A■C AZM66M■C | | | 3.8 | | 0.74 |
| AZM69A■C AZM69M■C | | | 5.4 | | 0.92 |
| AZM98A■C AZM98M■C | | | 5.5 | | 1.13 |
| AZM911A■C AZM911M■C | | | 6.4 | | 1.27 |
| AZM46A■C AZM46M■C | AZD-C AZD-CD AZD-CED AZD-CEP AZD-CM3 AZD-CPN AZD-CS3 AZD-CX | Single-phase 200-240 V | 1.7 | 50/60 Hz | 0.49 |
| AZM46A■C AZM46M■C | | Three-phase 200-240 V | 1.0 | | |
| AZM48A■C | | Single-phase 200-240 V | 1.6 | | 0.56 |
| | | Three-phase 200-240 V | 1.0 | | |
| AZM66A■C AZM66M■C | | Single-phase 200-240 V | 2.3 | | 0.74 |
| | | Three-phase 200-240 V | 1.4 | | |
| AZM69A■C AZM69M■C | | Single-phase 200-240 V | 3.3 | | 0.92 |
| | | Three-phase 200-240 V | 2.0 | | |
| AZM98A■C AZM98M■C | | Single-phase 200-240 V | 3.3 | | 1.13 |
| | | Three-phase 200-240 V | 2.0 | | |
| AZM911A■C AZM911M■C | | Single-phase 200-240 V | 3.9 | | 1.27 |
| | | Three-phase 200-240 V | 2.3 | | |

* All models may or may not be followed by a hyphen and/or any letters and/or any numbers.

- Drivers have no provision for solid state motor overload protection. Motor overload protection is required at end application.
- Drivers have no provision for motor over temperature protection. Motor over temperature protection is required at end application.
- For UL Standard (UL 61800-5-1), the product is recognized for the condition of Maximum Surrounding Air Temperature 55 °C (131 °F).
- The TEMPERATURE TEST was conducted on a driver mounted to an aluminum plate (200×200 mm, thickness 2 mm).
- Use a Class 2 power supply (UL-recognized) to the 24 VDC control circuit.
- For a circuit breaker or fuse that connects in the power line of the driver, use the UL listing product.
- Drivers shall be used in Pollution degree 2 environment.

UL Standards for AZ Series DC power input type

この付属書は、UL規格の認証に必要な情報を記載しています。
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This product is recognized by UL.
This information is important when you use this product as Recognized Component by UL.

■ Applicable Standards

- The box (■) in the model name indicates any number.

| | Model | Certification Body | File No. |
|--------|--|--------------------|----------|
| Motor | — | UL | E336472 |
| Driver | AZD■A-KED, AZD■A-KM3, AZD■A-KS3, AZD2B-KED, AZD2B-KM3, AZD2B-KS3 | | E171462 |
| | AZD-KED, AZD-KEP, AZD-KPN, AZD-KR2D, AZD-KRED, AZD-KREP, AZD-KRPN, AZD-KRX, AZD-KREN | | E208200 |

■ Compliance with UL Standards

● Motor

AZ Series motor and actuator equipped with the AZ Series (DC power input type) is recognized under UL 1004-1, UL 1004-6 based on the condition shown herein.

- Insulation system class: A

Specification

The following table shows the stepping motor specifications (maximum voltage, maximum current, heat sink size, holding torque and maximum speed).

- The box (■) in the model name indicates blank or any number.
- The box (□, ◆) in the model name indicates blank or any alphabet.

| Model *1 | Maximum voltage [V] | Maximum current [A] | Heat sink size [mm] *2 | Holding torque [N·m] | Maximum speed [r/min] |
|------------------------------|---------------------|---------------------|------------------------|----------------------|-----------------------|
| AZM46A■K AZM46M■K | 52.8 | 1.48 | 115×115×5 | 0.3 | 4,000 |
| AZM46AK2 AZM46AKH2 | | 2.1 | | | |
| AZM48A■K | | 2.3 | 150×150×6 | 0.72 | |
| AZM66A■K AZM66M■K | | 2.55 | 250×250×6 | 1 | |
| AZM69A■K AZM69M■K | 2 | | | 2,000 | |
| DRSM42□◆AZAK DRSM42□◆AZMK | 52.8 | 1.17 | 115×115×5 | 0.25 | 1,500 |

| Model *1 | Maximum voltage [V] | Maximum current [A] | Heat sink size [mm] *2 | Holding torque [N·m] | Maximum speed [r/min] |
|--------------------------|---------------------|---------------------|------------------------|----------------------|-----------------------|
| DRSM60AZAK DRSM60AZMK | 52.8 | 2.3 | 250×250×6 | 1 | 750 |

*1 All models may or may not be followed by a hyphen and/or any letters and/or any numbers.

*2 The material of the heat sink is aluminum.

● Driver

Input/output power ratings

| Driver model | Input | | Output current per axis [A] |
|--|---------------|-------------|-----------------------------|
| | Voltage [VDC] | Current [A] | |
| AZD2A-KED AZD3A-KED AZD4A-KED AZD2B-KED | 24/48 | 7.0 | 2.55 |
| AZD2A-KM3 AZD3A-KM3 AZD4A-KM3 AZD2B-KM3 | | | |
| AZD2A-KS3 AZD3A-KS3 AZD4A-KS3 AZD2B-KS3 | | | |

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