



TECHNICAL AND ENGINEERING COMPANY
ELECTRIC ACTUATOR MANUFACTURER

Electrical Data Sheet AM010 & AM050

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1. SCOPE

This document provides guidance notes about electrical drawing information.

These notes are applicable to the sizing of the following instrument equipment:

- AM010 Multi-turn actuators
- AM050 Multi-turn actuators

Any deviation from the present Calculation Notes at any stage of the project shall be subject to manufacturer approval.

2. REFERENCE DOCUMENTS

This document is complemented by the others as specified below:

- KSN 8569S310: Mechanical Datasheet
- KSN 8569S311: Technical Specification
- KSN 8569S312: Datasheet

3. ACTUATOR SIZING

The sizing of multi-turn actuators body will be in accordance with KSN 8569S311.

4. QUICK ACCESS TO INFORMATION

The table below is for actuators with single-phase and 220VAC-50Hz power input.

They work in C type according to EN15714-2.

Model	Speed (RPM)	Torque (N.m)	Maximum start (1/h)	Nominal Motor power (W)	Nominal current (A)	Max. current (A)	Starting current (A)	Overcurrent protection device setting (A)	Heater current (A)	IP Protection (EN60529)
AM010a	0-40	10-20	1500	50	0.8	1.2	2.2	1.2	0.2	IP68
AM050a	0-10	40-50	1500	50	0.8	1.2	2.2	1.2	0.2	IP68

The table below is for actuators with single-phase and 24VDC power input. They work in C type according to EN15714-2.

Model	Speed (RPM)	Torque (N.m)	Maximum start (1/h)	Nominal Motor power (W)	Nominal current (A)	Max. current (A)	Starting current (A)	Overcurrent protection device setting (A)	Heater current (A)	IP Protection (EN60529)
AM010a	0-40	10-20	1500	50	1.4	5.6	12	3.8	1	IP68
AM050a	0-10	40-50	1500	50	1.4	5.6	12	4.2	1	IP68

The table below is for actuators with single-phase and 220VAC-50Hz power input.

They work in B type according to EN15714-2.

Model	Speed (RPM)	Torque (N.m)	Maximum start (1/h)	Nominal Motor power (W)	Nominal current (A)	Max. current (A)	Starting current (A)	Overcurrent protection device setting (A)	IP Protection (EN60529)
AM010b	40	10-20	60	50	0.8	1.2	2.2	1.2	IP68
AM050b	10	40-60	60	50	0.8	1.2	2.2	1.2	IP68

The table below is for actuators with single-phase and 24VDC power input. They work in B type according to EN15714-2.

Model	Speed (RPM)	Torque (N.m)	Maximum start (1/h)	Nominal Motor power (W)	Nominal current (A)	Max. current (A)	Starting current (A)	Overcurrent protection device setting (A)	IP Protection (EN60529)
AM010b	40	10-20	60	50	1.3	5.6	12	3.8	IP68
AM050b	10	40-60	60	50	1.3	5.6	12	4.2	IP68

5. ELECTRICAL DRAWING

