



TECHNICAL AND ENGINEERING COMPANY
ELECTRIC ACTUATOR MANUFACTURER

Electrical Data Sheet AM060, AM120, AM250 & AM500

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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:

- AM060 Multi-turn actuators
- AM120 Multi-turn actuators
- AM250 Multi-turn actuators
- AM500 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)
AM060a	0-40	60-90	1500	140	2.2	4.8	8.2	4.8	0.2	IP68
AM120a	0-32	90-180	1500	500	5.6	13.2	22	13.2	0.2	IP68
AM250a	0-32	180-300	1500	900	7.5	18.8	32	18.8	0.2	IP68
AM500a	0-32	300-600	1500	1500	16.5	28.3	45	28.3	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)
AM060a	0-40	60-90	1500	140	6.8	25	45	19	2	IP68
AM120a	0-32	90-180	1500	500	13	60	100	45	2	IP68
AM250a	0-32	180-300	1500	900	21	85	150	60	2	IP68
AM500a	0-32	300-600	1500	1500	29	110	220	85	2	IP68

The table below is for actuators with 3p-380VAC-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)
AM060a	0-40	60-90	1500	140	1.5	3.4	5.8	3.4	0.2	IP68
AM120a	0-32	90-180	1500	500	4	9.4	15.7	9.4	0.2	IP68
AM250a	0-32	180-300	1500	900	5.3	13.4	22.8	13.4	0.2	IP68
AM500a	0-32	300-600	1500	1500	17.8	20.2	32.1	20.2	0.2	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)
AM060b	0-40	60-90	1500	140	2.2	4.8	8.2	4.8	IP68
AM120b	0-32	90-180	1500	500	5.6	13.2	22	13.2	IP68
AM250b	0-32	180-300	1500	900	7.5	18.8	32	18.8	IP68
AM500b	0-32	300-600	1500	1500	16.5	28.3	45	28.3	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)
AM060b	0-40	60-90	1500	140	6.5	25	45	19	IP68
AM120b	0-32	90-180	1500	500	12.8	60	100	45	IP68
AM250b	0-32	180-300	1500	900	20.7	85	150	60	IP68
AM500b	0-32	300-600	1500	1500	28.5	110	220	85	IP68

The table below is for actuators with 3p-380VAC-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)	IP Protection (EN60529)
AM060b	0-40	60-90	1500	140	1.5	3.4	5.8	3.4	IP68
AM120b	0-32	90-180	1500	500	4	9.4	15.8	9.4	IP68
AM250b	0-32	180-300	1500	900	5.3	13.4	22.8	13.4	IP68
AM500b	0-32	300-600	1500	1500	17.8	20.2	32.1	20.2	IP68

5. ELECTRICAL DRAWING



