



Mechanical Data Sheet AM120, AM250 & AM500

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1. SCOPE

This document provides guidance notes about dimensional drawing information.

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

- 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, 24VDC and 220VAC-50Hz power input. They work in C type according to EN15714-2.

Model	Speed (RPM)	Torque (N.m)	Maximum start (1/h)	Flange Type (ISO5211)	Weight (KG)	IP Protection (EN60529)
AM120a	0-32	90-180	1500	F10/F12/F14	35	IP68
AM250a	0-16	180-300	1500	F12/F14	40	IP68
AM500a	0-16	300-600	1500	F12/F14	49	IP68

The table below is for actuators with single-phase, 24VDC and 220VAC-50Hz power input. They work in B type according to EN15714-2.

Model	Speed (RPM)	Torque (N.m)	Maximum start (1/h)	Flange Type (ISO5211)	Weight (KG)	IP Protection (EN60529)
AM120b	0-32	90-180	60	F10/F12/F14	35	IP68
AM250b	0-16	180-300	60	F12/F14	40	IP68
AM500b	0-16	300-600	60	F12/F14	49	IP68

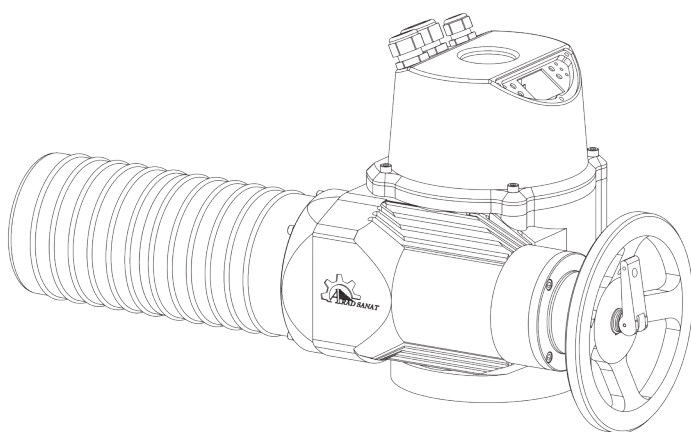
The table below is for actuators with 3p-380VAC-50Hz power input. They work in C type according to EN15714-2.

Model	Speed (RPM)	Torque (N.m)	Maximum start (1/h)	Flange Type (ISO5211)	Weight (KG)	IP Protection (EN60529)
AM120a	0-32	90-180	1500	F10/F12/F14	35	IP68
AM250a	0-16	180-300	1500	F12/F14	40	IP68
AM500a	0-16	300-600	1500	F12/F14	49	IP68

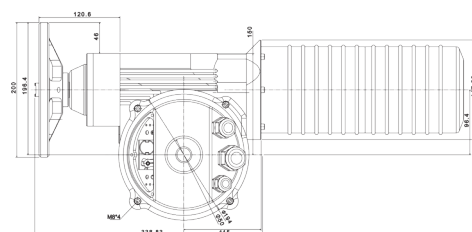
The table below is for actuators with 3p-380VAC-50Hz power input. They work in B type according to EN15714-2.

Model	Speed (RPM)	Torque (N.m)	Maximum start (1/h)	Flange Type (ISO5211)	Weight (KG)	IP Protection (EN60529)
AM120b	0-32	90-180	60	F10/F12/F14	35	IP68
AM250b	0-16	180-300	60	F12/F14	40	IP68
AM500b	0-16	300-600	60	F12/F14	49	IP68

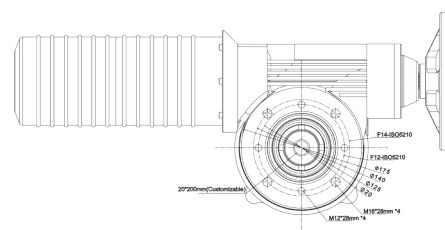
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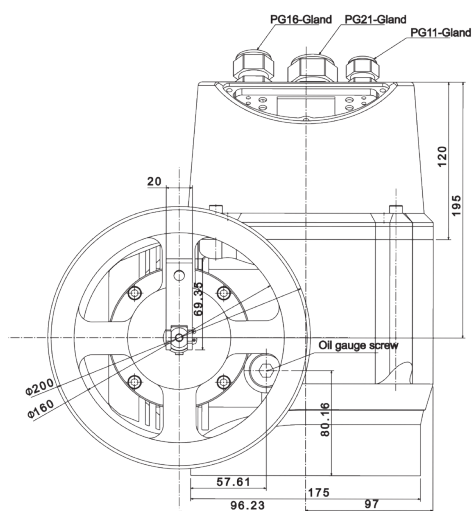
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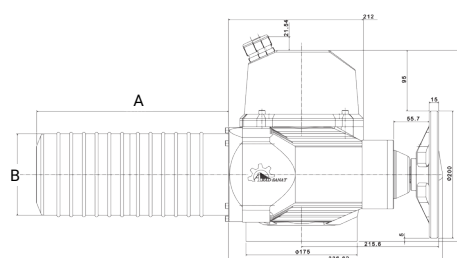
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Front



Left



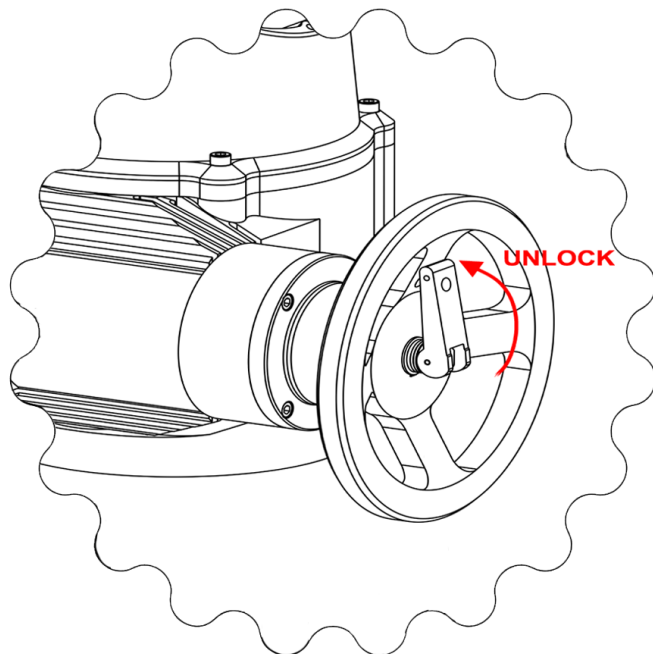
Model	A (mm)	B (mm)
AM120	221	148
AM250	301	128
AM500	351	192

6. MANUAL STRUCTURE

To use the handwheel, first turn the latch in the direction shown. At this stage, activate the handwheel clutch to release the gearbox from the motor.

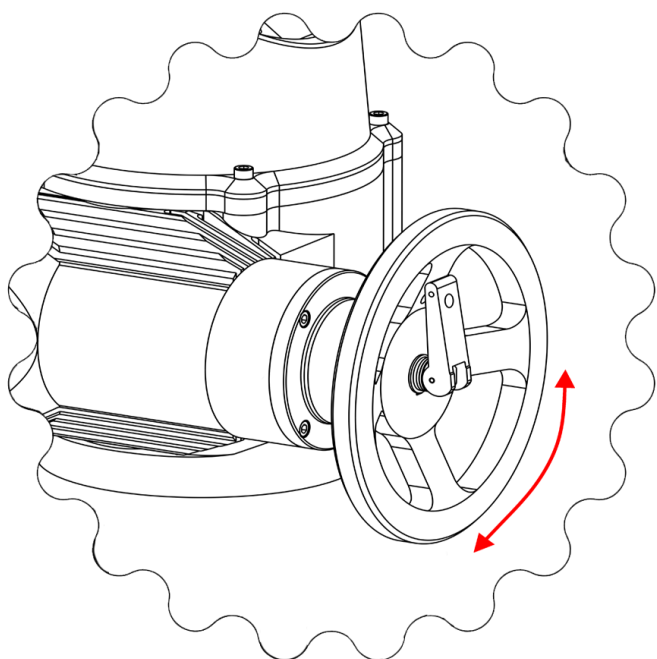
Activating the handwheel clutch cuts off the motor power and activates the alarm and handwheel feedback.

It is superior to cut off the input power of the actuator.



After engaging the handwheel with the gearbox, you can move the output shaft by turning it.

Note: 20 N.m is the maximum torque required to rotate the handwheel. If the output shaft needs more torque, it might be hitting a dynamic limiter.



To use the motor again or to release the handwheel, turn the latch in the direction of LOCK.

