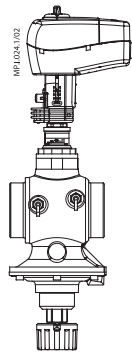
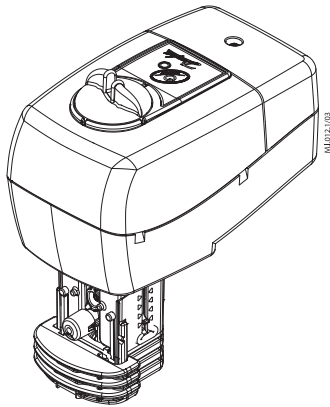


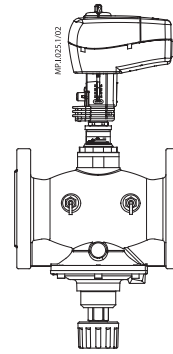
Operating Guide

AME 435 QM / 73691460

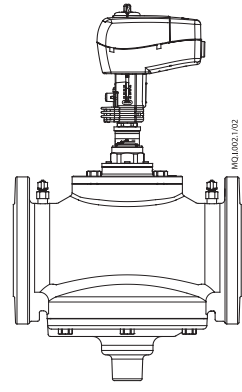
AME 435 QM



AME 435 QM +
AB-QM (DN 40/50)



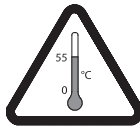
AME 435 QM +
AB-QM (DN 50)



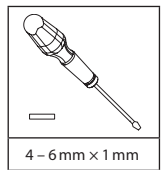
AME 435 QM +
AB-QM (DN 65-100)



MAINTENANCE
FREE

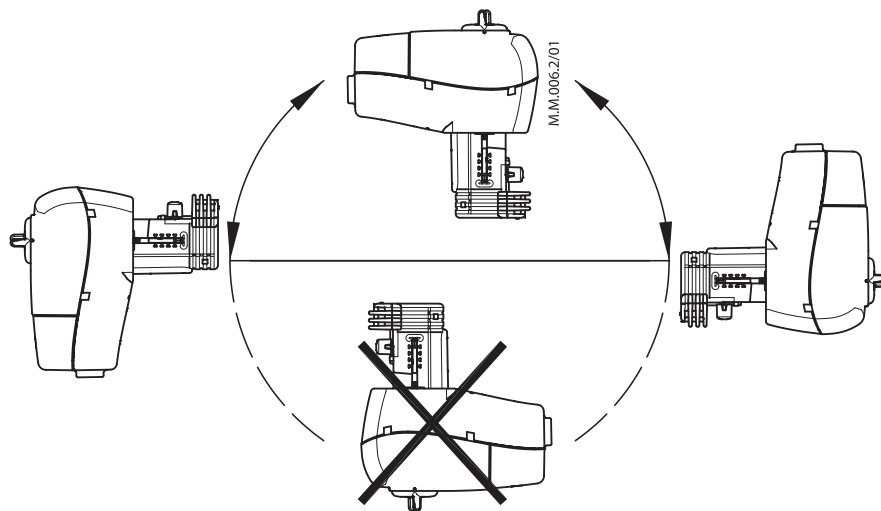


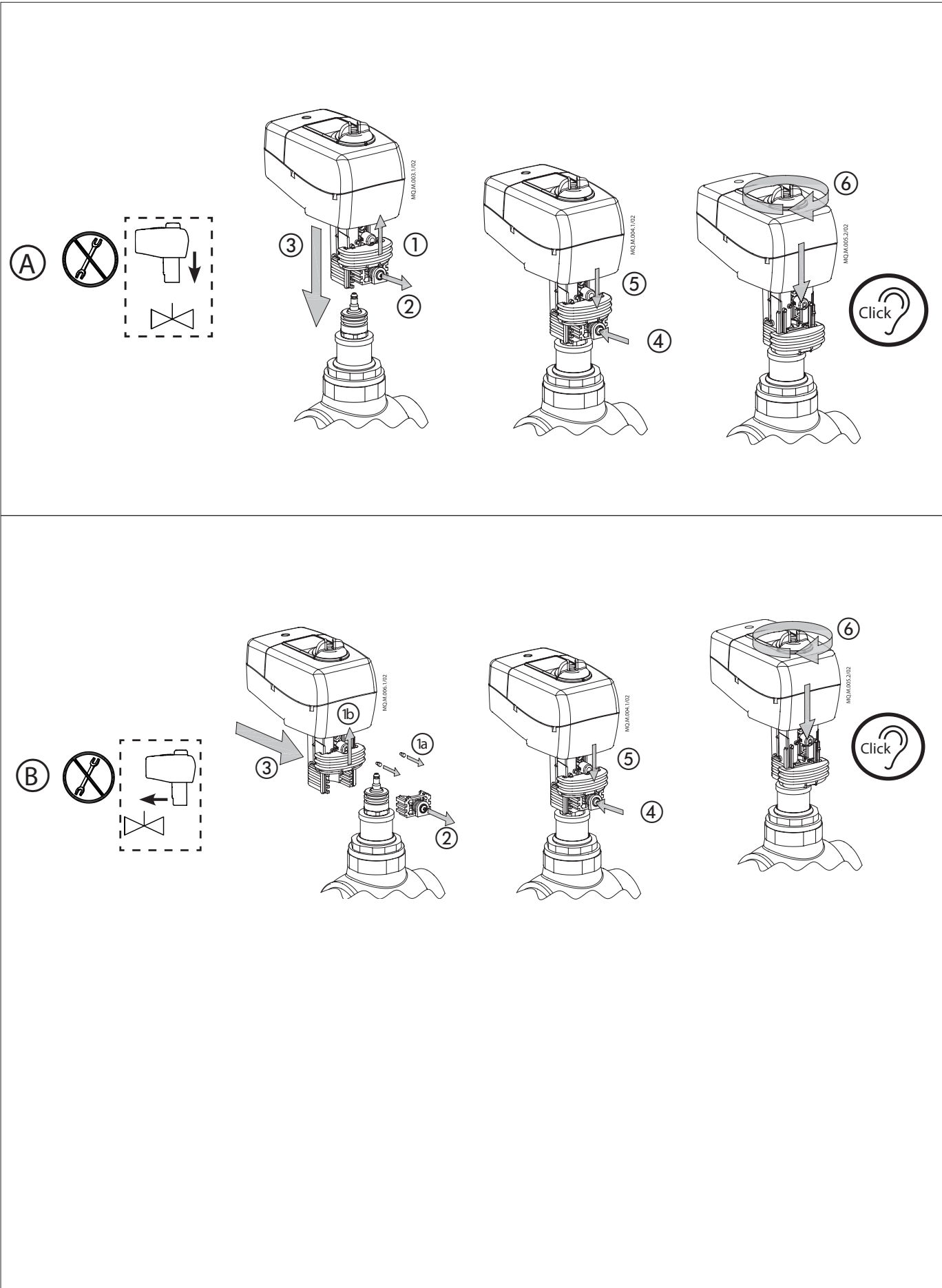
5-95 % RH
no condensing



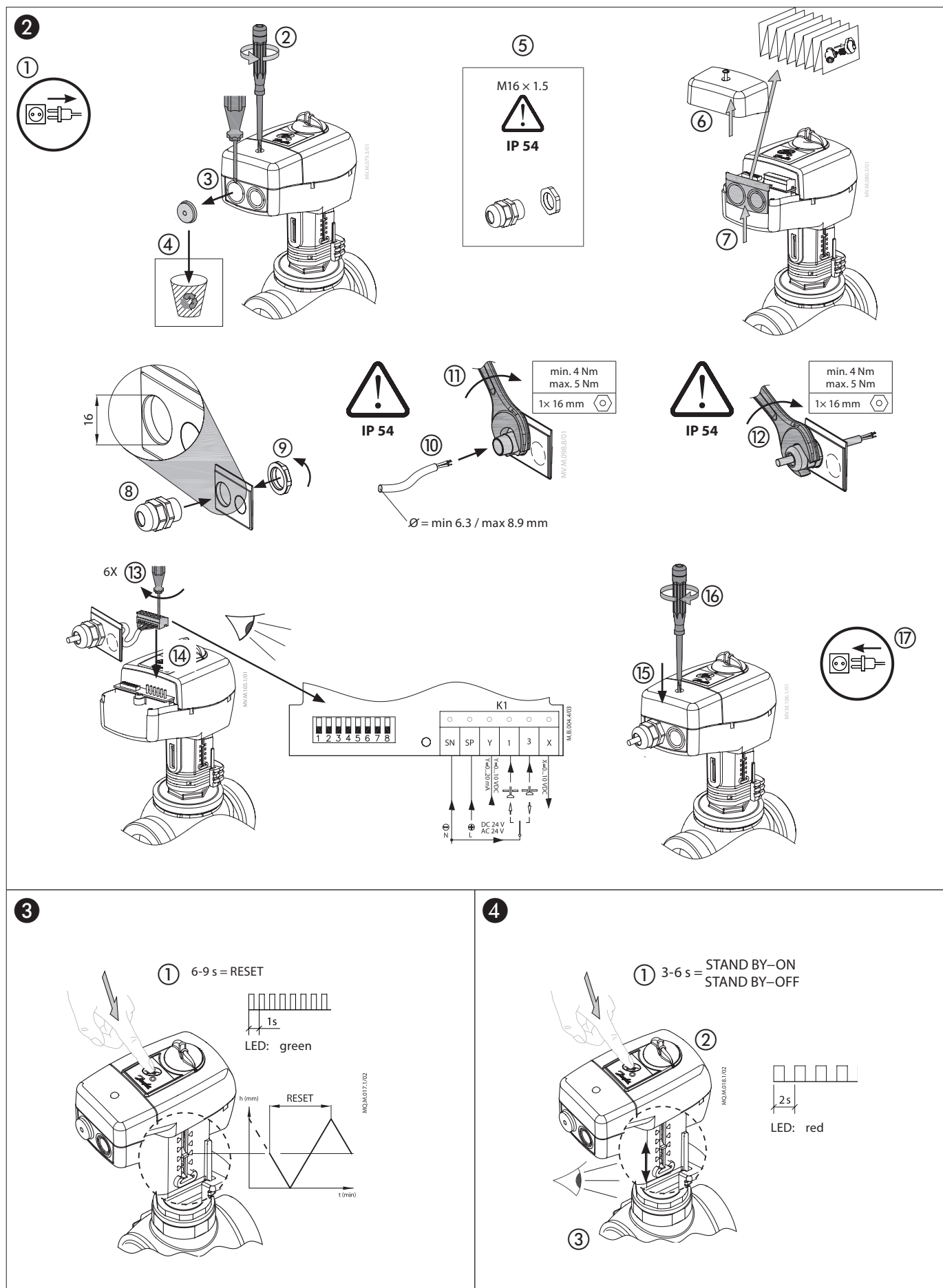
4 – 6 mm × 1 mm

1

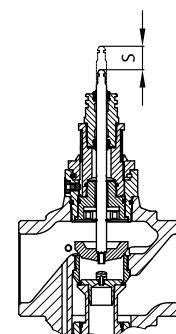
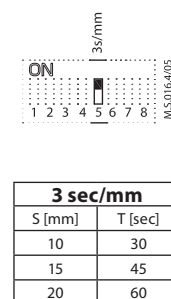
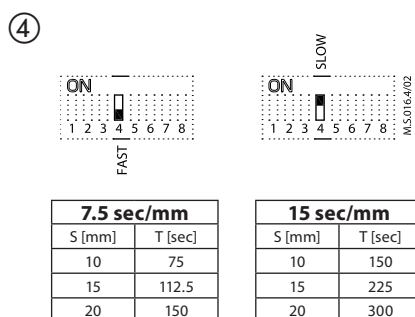
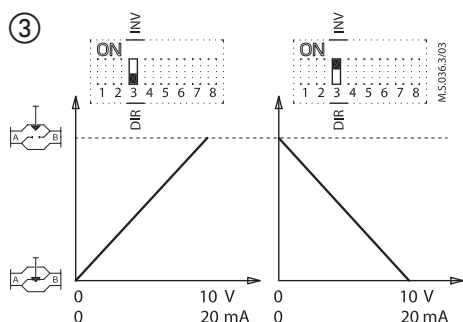
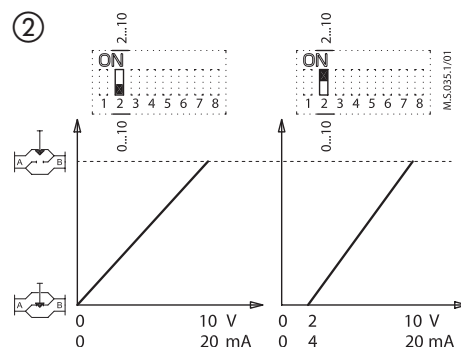
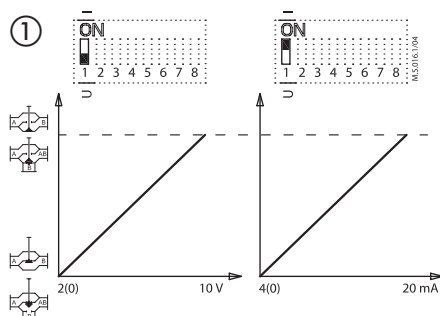
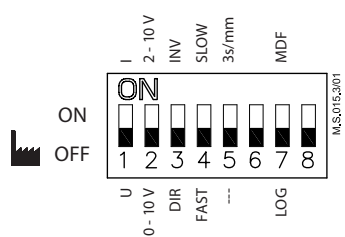




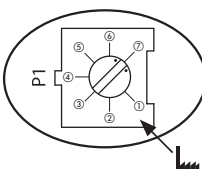
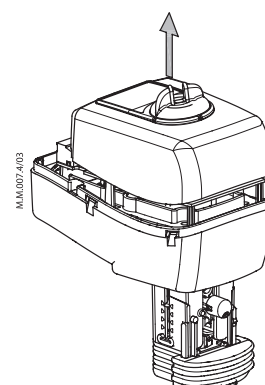
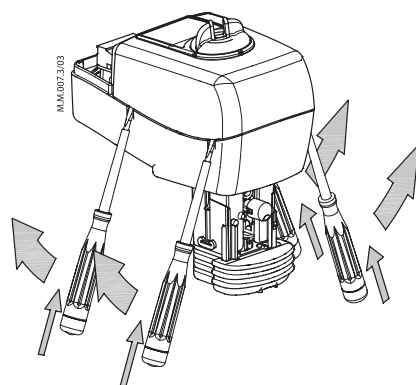
AME 435 QM



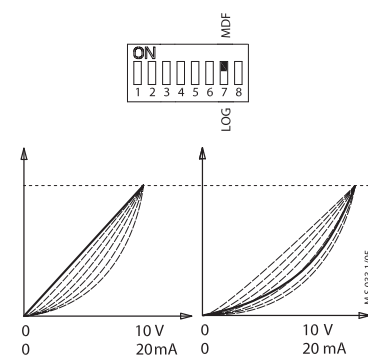
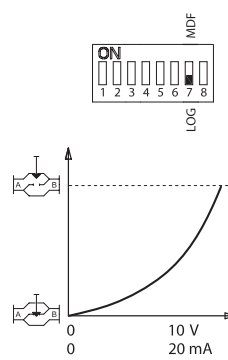
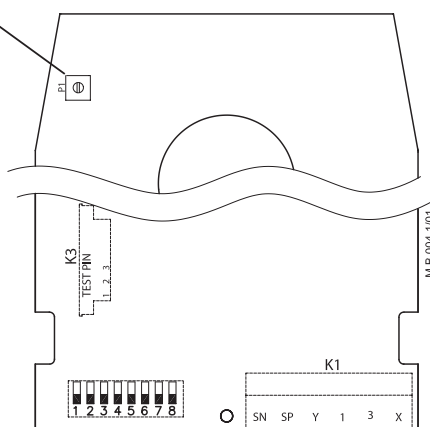
5



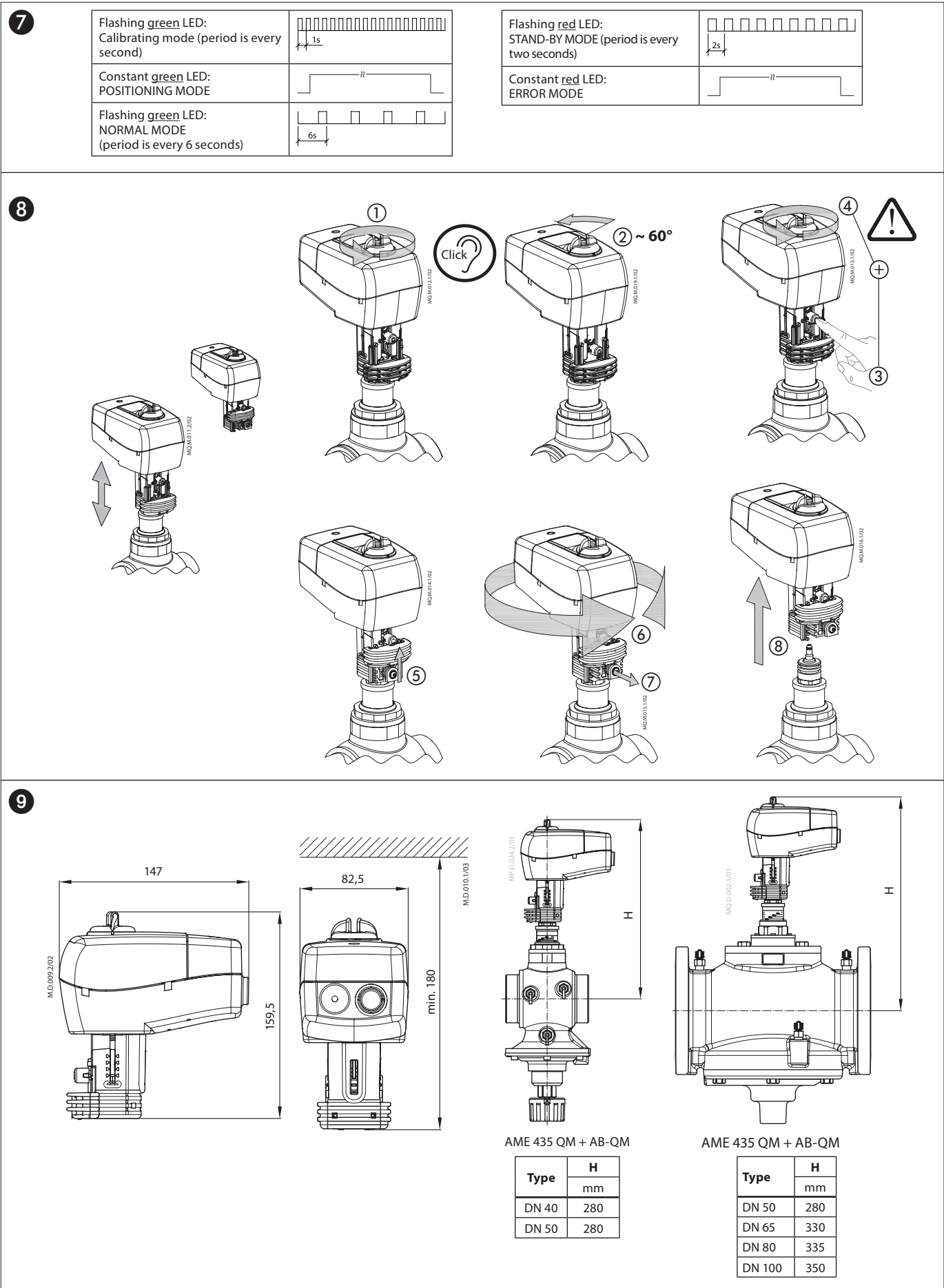
6



α -knob position	α -value
①	0.084
②	0.088
③	0.111
④	0.180
⑤	0.308
⑥	1.000
⑦	1.000



AME 435 QM



ENGLISH

Safety Note



To avoid injury of persons and damages to the device, it is absolutely necessary to read and observe these instructions carefully.

Necessary assembly, start-up, and maintenance work must be performed by qualified and authorized personnel only.

Please comply with the instructions of the system manufacturer or system operator.



Do not remove the cover before the power supply is fully switched off.

Mounting and installation ①

Wiring ②



Do not touch anything on the PCB! Switch off the power line before wiring the actuator! Lethal voltage! Wire the actuator according to the wiring diagram.

Functions accessible from cover

RESET ③

By pushing STAND BY/RESET button for 6-9 sec. the actuator starts self stroking procedure to adjust to the stroke of the valve to which it is connected.

Procedure starts with extracting the stem.

As the maximum force is detected the actuator reverse its direction until maximum force in opposite direction is detected.

During calibration Bi-Color LED blinks green 1/sec. After reaching fully upper end position actuator enter normal mode and start catching Y control signal.

STAND-BY MODE

- Manual operation ④

Press the STAND-BY/RESET-button for 3-6 sec. to enter STAND-BY mode. The actuator stops in current position and stops responding to any control signal. Red light is flashing in 2 sec. interval. You can manually control the actuator (manual operation- see next section).

This mode can be very useful during the commissioning of other equipment, or for service purposes.

To exit Stand by mode press the STAND-BY/RESET-button again.

Manual override



NOTE:

If manual override has been used then control and return signal are not correct until the actuator reaches its end position.



Do not change preset on AB-QM while actuator is mounted on the valve. This could result in actuator damage.

DIP switch settings ⑤

DIP switches

Factory settings:

ALL switches are in OFF position!



NOTE:

All combinations of DIP switches are allowed. All functions that are selected are added consecutively.

SW 1: U/I - Input signal type selector

SW 2: 0/2 - Input signal range selector ②

SW 3: D/I - Direct or inverse acting selector ③

SW 4: Fast/Slow: Speed selector ④

SW 5: Normal or very high speed

SW 6: Not used

SW 7: LOG/MDF - Logarithmic or modified flow characteristic ⑥

SW 8: Not used

LED function indicator ⑦

Green – initialization (RESET), set-point position, transition indicator

Red - indicates STAND BY and Failure mode.

Green:

- Flashing light (once every 6 sec.) ②
 - actuator reached set-point acc. to Y signal
- No light
 - no operation or no power supply
- Flashing light (~ 1Hz) ③
 - self adjusting mode.

Red:

- No light
 - no operation or no power supply
- Constant light ④
 - fault condition occurred
- Lit ⑤
 - Error mode – power supply to low, initial self positioning time too short due to too short valve strokes, failure during self calibration
- Flashing light (2 Hz) ①
 - STAND BY
 - power supply too low
 - initial self-adjusting time too short due to too short valve strokes
 - failure during self calibration.

Dismounting ⑧

Dimensions ⑨

The following information is provided on the device or on the instruction manual or datasheet:

- Purpose of control: Electrical Actuator
- Construction of control: Independently Mounted Control
- Method of mounting control
- Type 1 Action
- Pollution Degree 2
- Impulse Voltage: 500V
- Software Class A
- Mechanical and thermal ratings (ref to Ratings section for more details)
- "Use ½ inch flexible metal conduit for connection"
- "Use Listed Flexible Metal Conduit Fitting DWTT/7"
- "Use 60°C/75°C copper (CU) conductor and wire size range (#) AWG, stranded or solid".
"The terminal tightening torque of (#) Lb per In."
- Torque value for Cover screw: 0,6 +/-0,1 Nm.

Note (#): Values depend by field wiring ratings of terminal block employed on the device construction.

Part Name	Hazardous Substances Table					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Motor	0	0	0	0	0	0

0: Indicates that this hazardous substance contained in all of the homogeneous material for this part is below the limit requirement in GB/T 26572;

DEUTSCH

Sicherheitshinweise


Um Verletzungen an Personen und Schäden am Gerät zu vermeiden, ist diese Anleitung unbedingt zu beachten.

Montage, Inbetriebnahme und Wartungsarbeiten dürfen nur von sachkundigen und autorisierten Personen durchgeführt werden.

Die Vorgaben des Anlagenherstellers und Anlagenbetreibers sind zu beachten.



Abdeckung erst entfernen, wenn die Stromversorgung komplett ausgeschaltet ist.

Verdrahtung ②


Bitte die Platine nicht direkt berühren!
Trennen Sie das Netzkabel vor der Verdrahtung des Stellantriebs!
Lebensgefahr!

Schließen Sie den Stellantrieb gemäß dem Verdrahtungsplan an.



FRANÇAIS

Remarques de sécurité


Pour éviter des blessures des personnes et des dégâts au dispositif, il est absolument nécessaire de lire attentivement et de respecter ces instructions.

Le montage, la mise en marche et toute opération de maintenance doivent être effectués par un service ou une personne de qualification.
Suivre les instructions du fabricant du système ou de son service.



Ne pas retirer le capot avant d'avoir totalement coupé l'alimentation.

Câblage ②


Ne touchez pas la carte de circuit imprimé!
Coupez l'alimentation avant de raccorder le moteur ! Danger de mort !
Raccordez le moteur conformément au schéma de branchement électrique.



中文

安全注意事项


为避免发生人身和设备事故，请仔细阅读本手册。

安装、调试、维修必须由专业人员进行。

请遵循系统制造商或系统操作人员的说明。



在完全切断电源之前，切勿揭开保护盖。

配线 ②


切勿触碰电路板 (PCB) !
对驱动器进行配线之前，请关闭电源！致命电压！
参照配线图，对驱动器进行配线。



AME 435 QM

РУССКИЙ

Примечания по технике безопасности

Во избежание получения травм или повреждений устройства обязательно прочитайте настоящую инструкцию и тщательно ее соблюдайте.

Все необходимые работы по сборке, вводу в действие и техническому обслуживанию оборудования должны выполняться только квалифицированным персоналом, имеющим соответствующее разрешение.

Следуйте указаниям производителя системы или оператора системы.



Не снимайте крышку до того, как питание будет полностью выключено.

Соединение ②

Не прикасайтесь к печатной плате! Отключите линию питания перед монтажом проводки электропривода! Опасное для жизни напряжение! Смонтируйте проводку электропривода согласно электрической схеме.

**Danfoss A/S**

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