

TA-MC50-C



Actuators

High performance proportional actuator – 500 N

TA-MC50-C

High performance proportional actuators with automatic stroke adaptation which provide accurate modulating or 3-point control when used together with 2-way and 3-way control valves from IMI Hydronic Engineering.

Key features

> Easy commissioning

Automatic measurement and adaptation to the valve lift as well as load-dependent end position switch-off helps to reduce commissioning time and protect the valve and actuator from overloading.

> Easy troubleshooting

Protected hand drive for a safe manual operation which enables easy troubleshooting.

> Ease of service

The actuator housing cover is easy to remove. Parameters can easily be changed on site.



Technical description

Functions:

24 VAC: Modulating or 3-point control.
230 VAC: 3-point control.

Supply voltage:

24 VAC/VDC $\pm 10\%$
230 VAC $\pm 10\%$
Frequency 50-60 Hz $\pm 5\%$

Power consumption:

24 V:
Idle/standby: 6 VA (AC) / 2.6 VA (DC)
Dimensioning: 8.5 VA (AC); 4.1 W (DC)
Nominal: 4.0 VA (AC); 1.9 W (DC)
230 V:
Idle/standby: 3.5 VA
Dimensioning: 9.9 VA
Nominal: 5.3 VA

Input signal:

24 V:
0(2)-10 VDC, $R_i \sim 20 \text{ k}\Omega$.
Signal direction and starting point adjustable by micro switches.
3-point control.
230 V:
3-point control.

Feedback signal:

24 V: 0 - 10V max. 5 mA - for 100% lift

Control speed:

22 s/mm

Adjusting force:

500 N

Operation mode:

S1 100%ED

End position switch-off:

Load-dependent

Temperature:

Media temperature: max. 120°C
Operating environment: 0°C – +50°C (5-85%RH, non-condensing)
Storage environment: -20°C – +60°C (5-85%RH, non-condensing)

Ingress protection:

IP40

Protection class:

(according to EN 60730)
24 V: III
230 V: II

Stroke:

Max. 10 mm

Cable:

1.5 m, with wire end sleeve.
24 V: 0.5 mm²
230 V: 0.75 mm²

Connection to valve:

Swivelling nut M30x1.5 of brass.

Colour:

Black body and red cover.

Marking:

IMI TA, CE, Article No, product name and technical specification.

Weight:

0,20 kg

Function

Manual operation

Switch off the power supply and turn with 4 mm allen key.

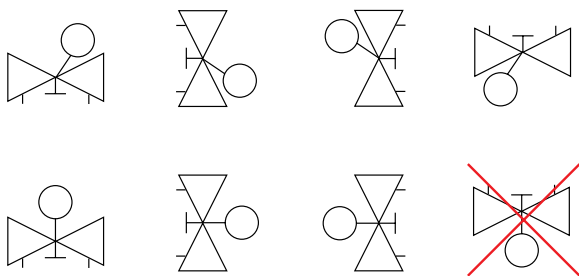
Position indication

Orange pin

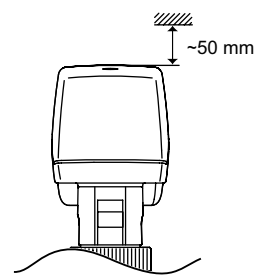
Valve blocking protection

Can be switched on/off (24 V only)

Installation



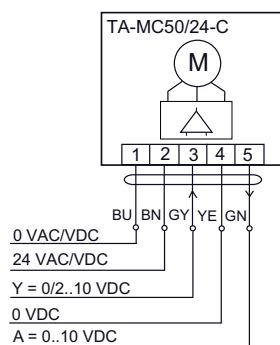
Note!



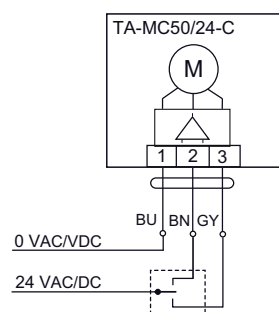
Connection diagram

24 VAC/VDC

Modulating - 0(2)-10V

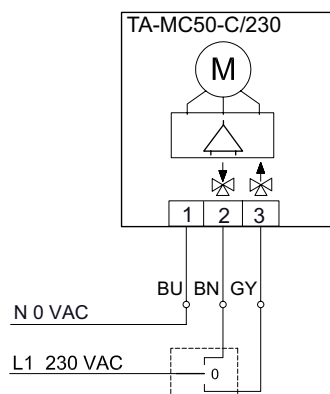


3-point



230 VAC

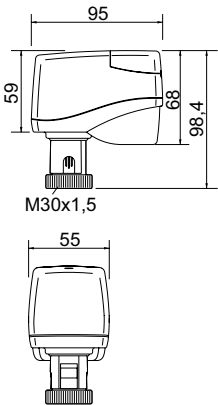
3-point



For 24V in 3-point control, the actuating direction can be changed by exchanging the **green** and **brown** wires.

For 230V in 3-point control, the actuating direction can be changed by exchanging the **grey** and **brown** wires.

Articles



TA-MC50-C

Supply voltage	Input signal	EAN	Article No
24 VAC/VDC	3-point, 0(2)-10 V	3831112527768	61 050-011
230 VAC	3-point	3831112527775	61 050-012

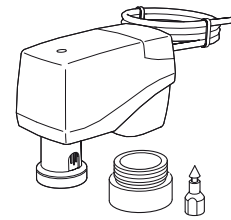
Kleinstellantrieb
Small servo drive
Petit actionneur
Servomotor pequeño
Regelaandrijving
Mini-attuatore
Inställningsventil
Ovládací náhon ventilu
Zawór nastawczy
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pl Instrukcja montau
ru Указание по монтажу
hu Szerelési útmutató
zh 安装提示

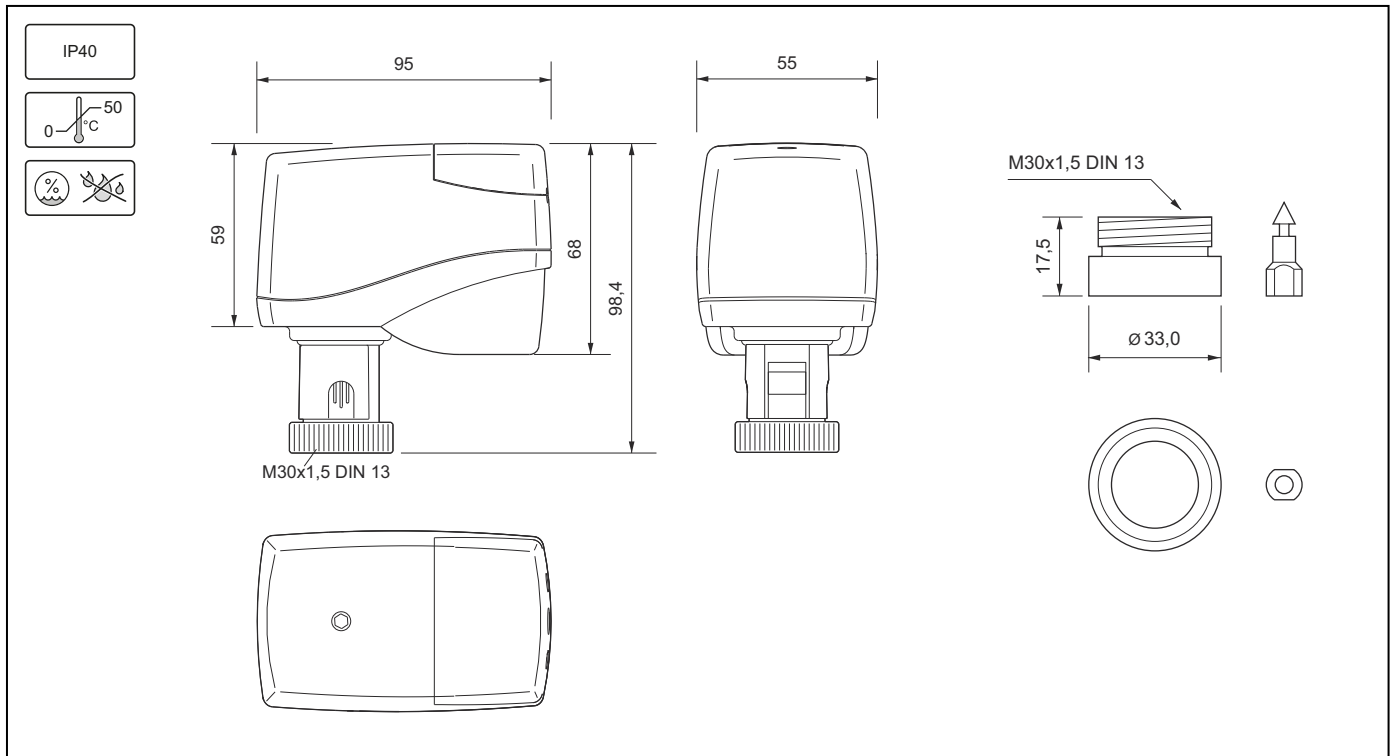
MC50/24-C

3.10-TA.150-99

2018-04-18



IMI Hydronic Engineering International SA
Lake Geneva Business Park
Route de Crassier 19
CH 1262 Eysins



ACHTUNG! Montage und Installation darf nur durch qualifiziertes Fachpersonal vorgenommen werden.

NOTICE! Assembly and installation may only be carried out by qualified specialist personnel.

ATTENTION! Le montage et l'installation doivent uniquement être effectués par du personnel qualifié.

¡ATENCIÓN! El montaje y la instalación sólo lo puede realizar personal técnico calificado.

LET OP! Montage en installatie mogen slechts door geschoold personeel met de nodige kwalificatie worden uitgevoerd.

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VARNING! Montage och installation får endast ske av kvalificerad fackpersonal.

POZOR! Montáž a instalaci smí provádět pouze kvalifikovaný odborný personál.

UWAGA! Montaż i instalację mogą przeprowadzać tylko wykwalifikowani specjaliści.

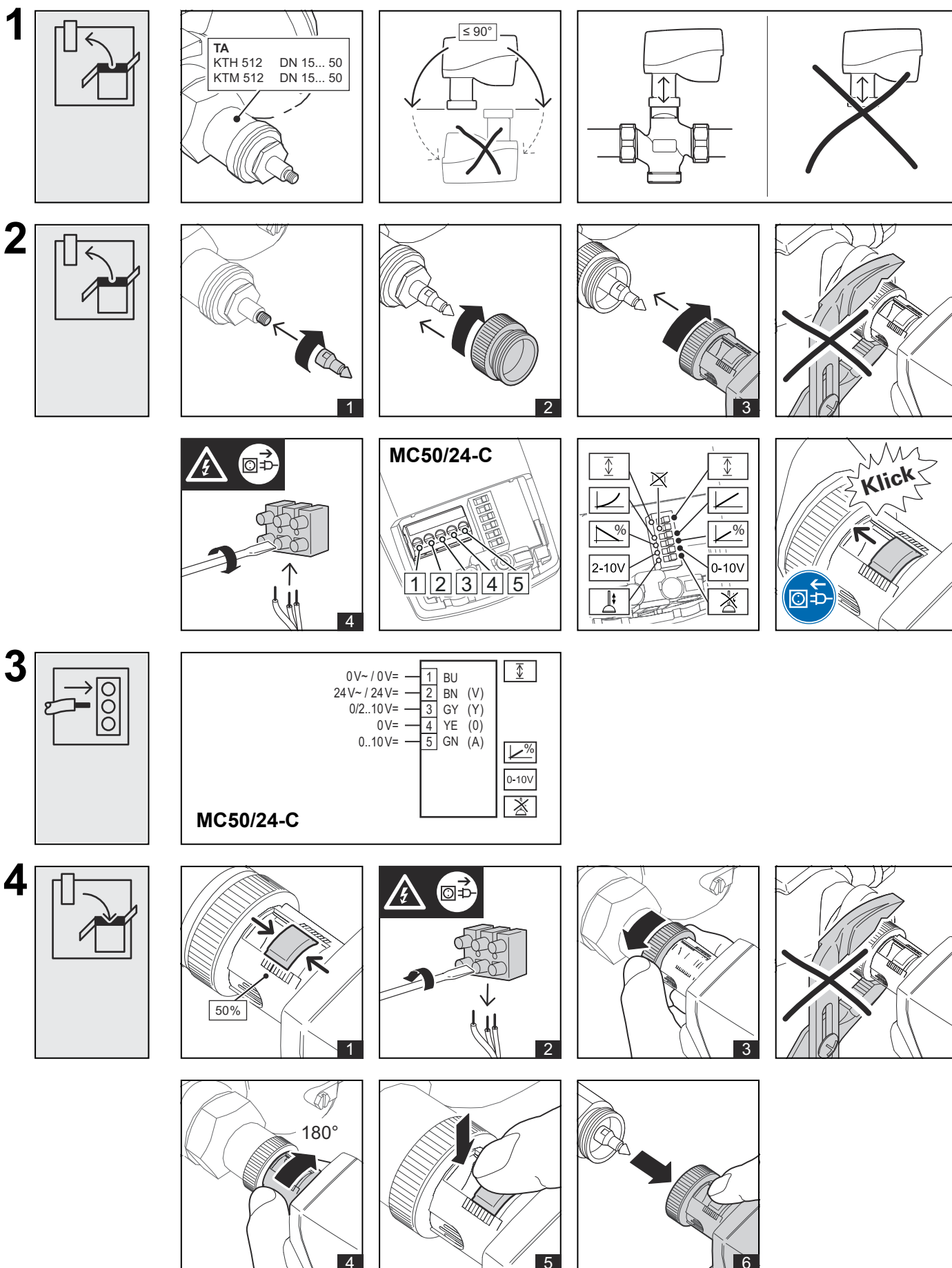
ВНИМАНИЕ! Монтаж и установка должны производиться только квалифицированным персоналом.

FIGYELEM! A szerelést és telepítést csak szakképzett személyek végezhetik.

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MC50/24-C



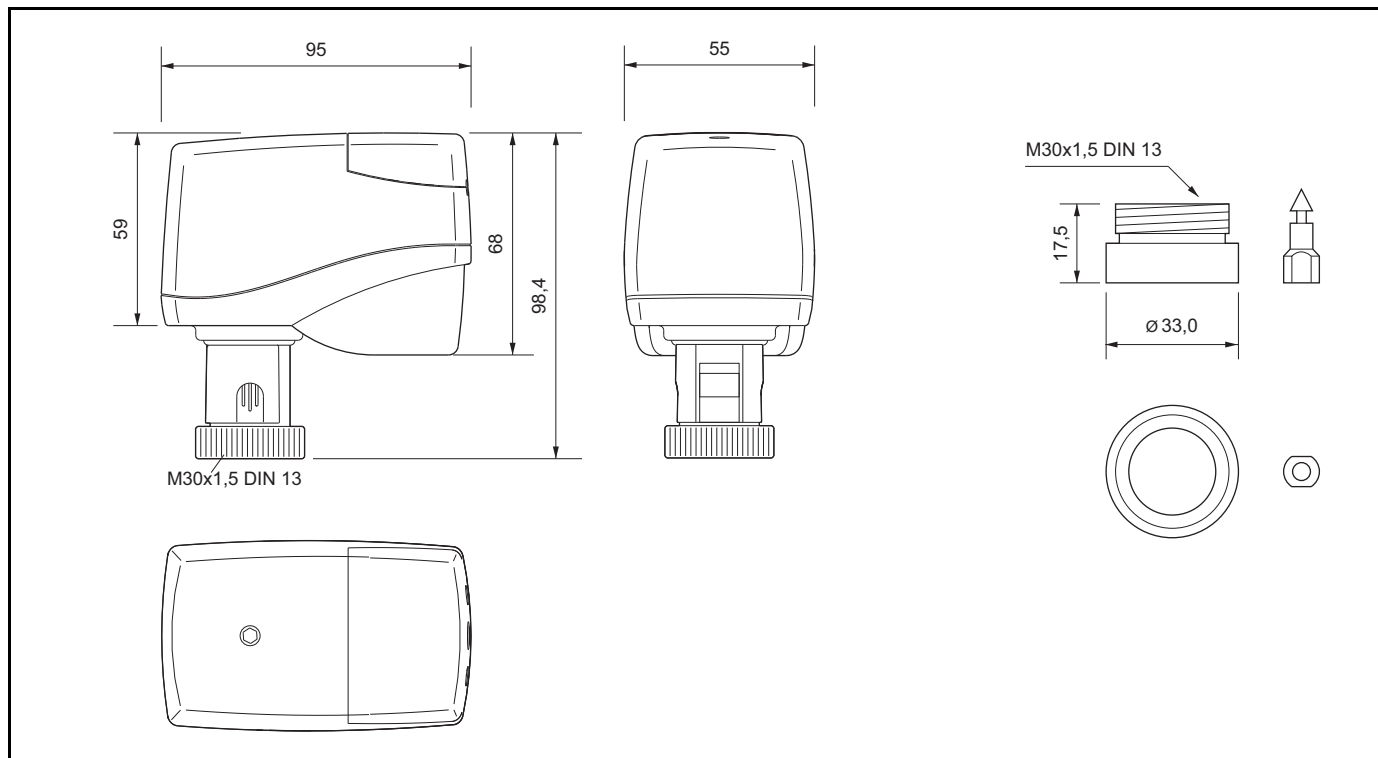
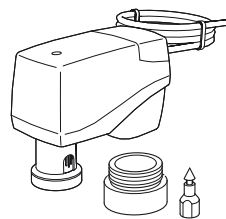
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MC50/24-C, MC50/230-C

3.10-TA.150-99

2011-11-23



GEFAHR! Elektrische Spannung 230V.

DANGER! Electrical voltage 230V.

DANGER! Tension électrique 230V.

¡PELIGRO! Tensión eléctrica 230V.

GEVAAR! Elektrische spanning 230V.

PERICOLO! Tensione elettrica 230V.

FARA! Elektrisk spänning 230V.

NEBEZPEČÍ! Elektrické napětí 230V.

NIEBEZPIECZEŃSTWO! Napięcie elektryczne 230V.

ОПАСНОСТЬ! Электрическое напряжение 230В.

VESZÉLY! Elektromos feszültség 230V.

危險 电压 230V.



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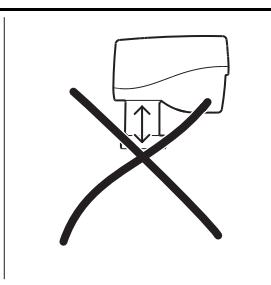
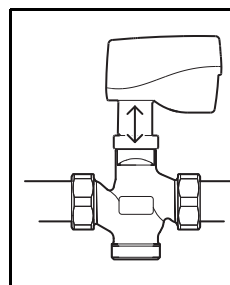
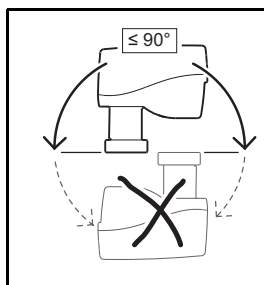
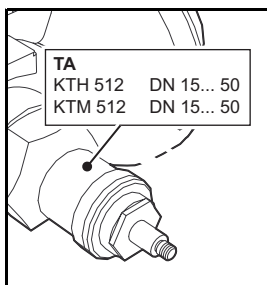
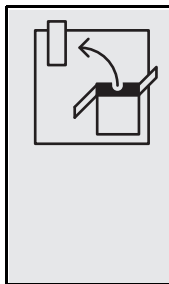
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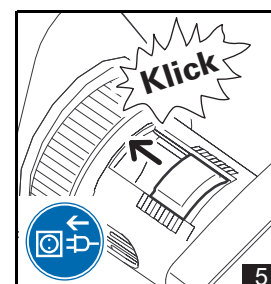
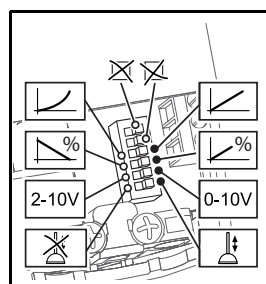
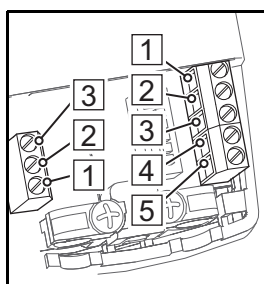
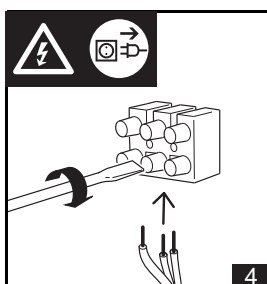
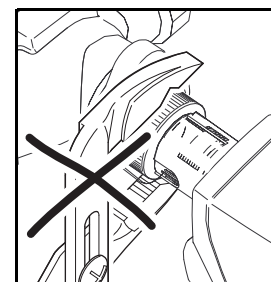
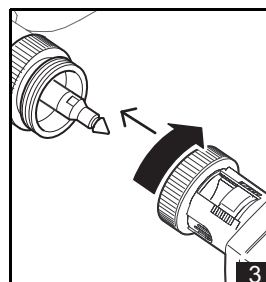
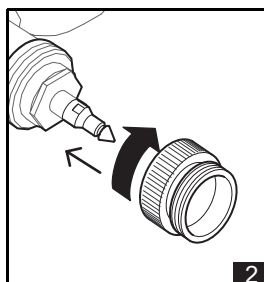
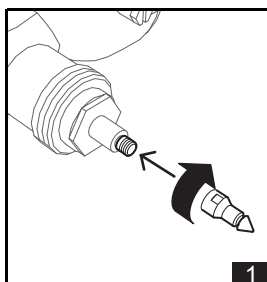
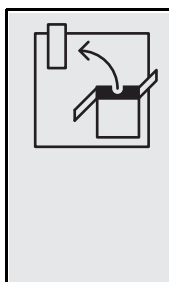
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MC50/24-C, MC50/230-C

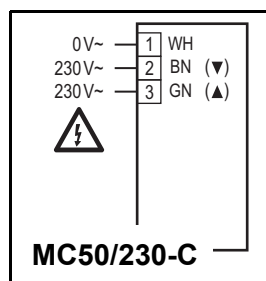
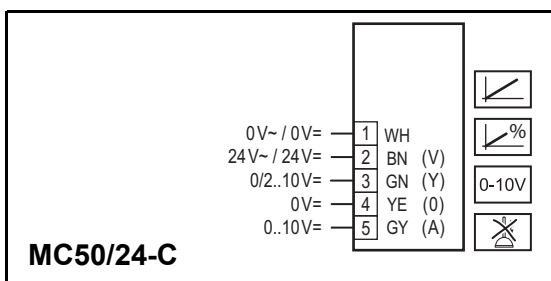
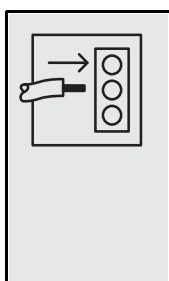
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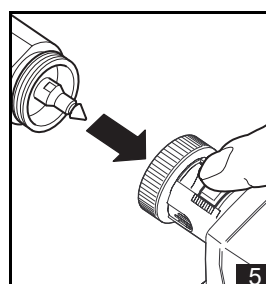
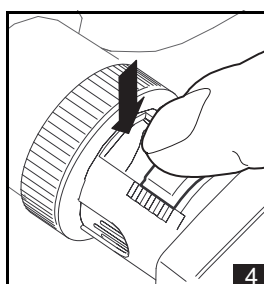
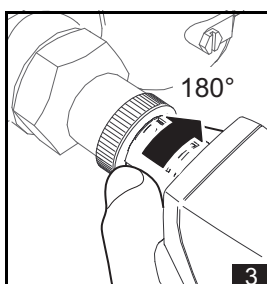
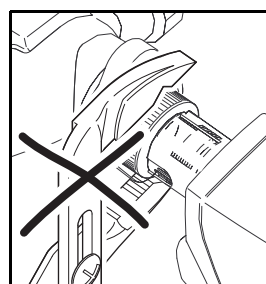
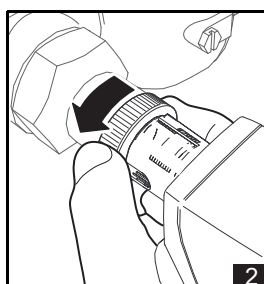
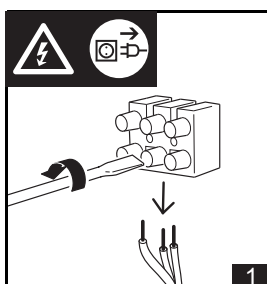
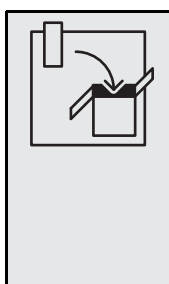
2



3



4



IP40
0°C.. 50 °C
Luftfeuchte nicht kondensierend
Non-condensing humidity
Humidité relative, non condensée
Humedad de aire no condensado
Luchtvochtigheid niet condenserend
Umidità aria in assenza di condensa
Ej kondenserande luftfuktighet
Nekondenzující vlhkost vzduchu
Niekondensująca wilgotność powietrza
Влажность воздуха без конденсации
Nem kondenzáló páratartalom
不产生蒸气