

TA-MC15, TA-MC15-C



Actuators

High performance proportional actuator – 150 N / 200 N

TA-MC15, TA-MC15-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 $+6\%/-10\%$
Frequency 50-60 Hz $\pm 5\%$

Power consumption:

24V:
Idle/Standby: 0.7 VA (AC); 0.3 W (DC)
Dimensioning: 3.7 VA (AC); 1.7 W (DC)
Nominal: 2.3 VA (AC); 1.1 W (DC)
230V:
Idle/Standby: 1.7 VA
Dimensioning: 4.4 VA
Nominal: 2.8 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.

Control speed:

22 s/mm

Adjusting force:

TA-MC15: 150 N
TA-MC15-C: 200 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:

TA-MC15: max. 9 mm
TA-MC15-C: max. 6 mm
TA-MC15:
Automatic detection of the valve lift
(stroke detection).

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:

0.25 kg

Function

Manual operation

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

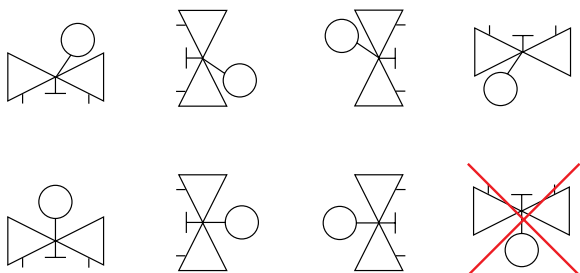
Position indication

Orange pin

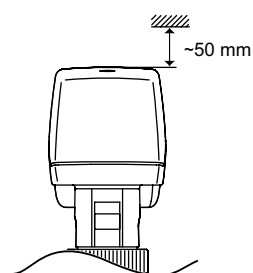
Valve blocking protection

Can be switched on/off (24 V only)

Installation



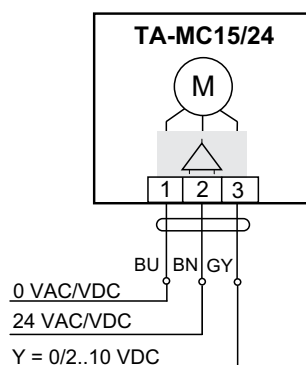
Note!



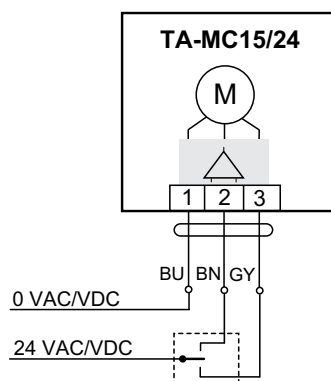
Connection diagram

24 VAC/VDC

Modulating - 0(2)-10V

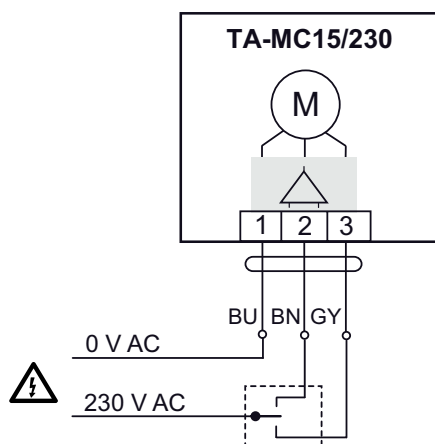


3-point



230 VAC

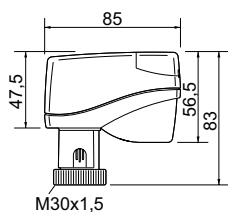
3-point



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

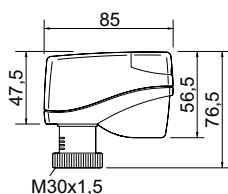
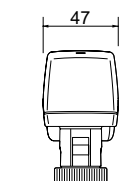
For 230V in 3-point control, the actuating direction can be changed by exchanging the **grey** and **brown** wires.

Articles



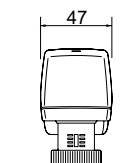
TA-MC15

Supply voltage	Input signal	Adjusting force [N]	Stroke max. [mm]	EAN	Article No
24 VAC/VDC	3-point, 0(2)-10 V	150	9	5902276889714	61 015-001
230 VAC	3-point	150	9	3831112527805	61 015-002



TA-MC15-C

Supply voltage	Input signal	Adjusting force [N]	Stroke max. [mm]	EAN	Article No
24 VAC/VDC	3-point, 0(2)-10 V	200	6	3831112527799	61 015-011
230 VAC	3-point	200	6	3831112527805	61 015-012



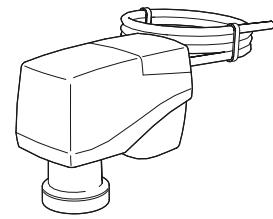
Kleinstellantrieb
Small servo drive
Petit actionneur
Servomotor pequeño
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Mini-attuatore
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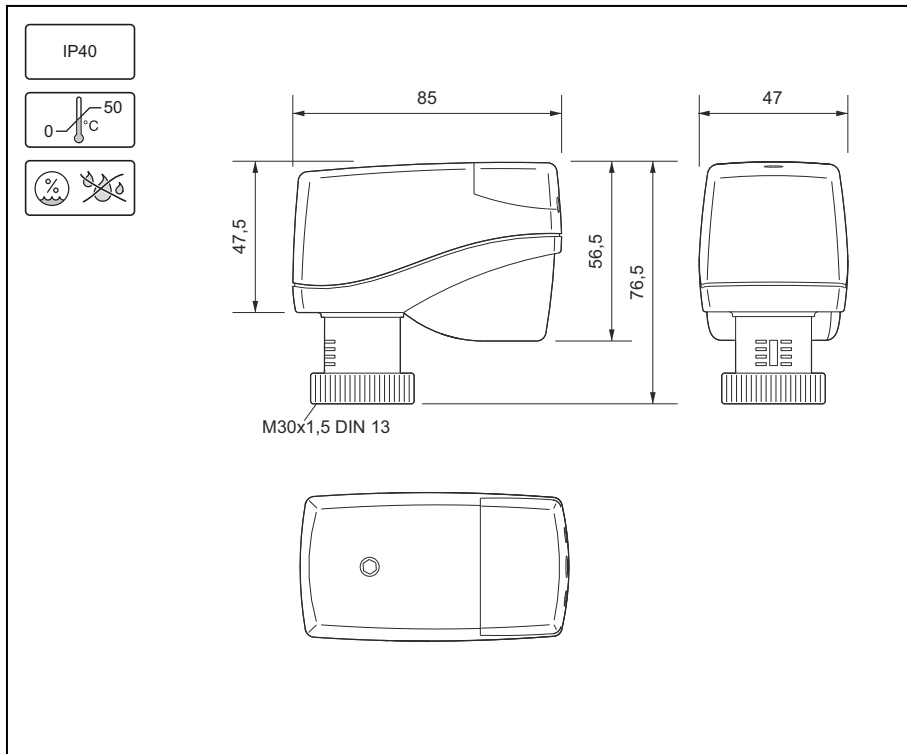
MC15/24-C

3.09-TA.115-99

2021-11-30



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.

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

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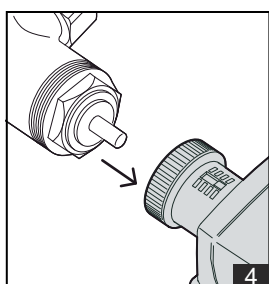
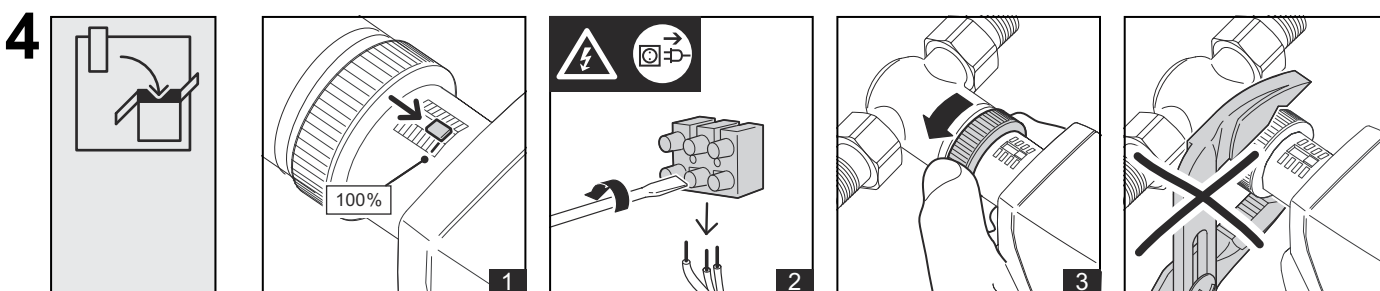
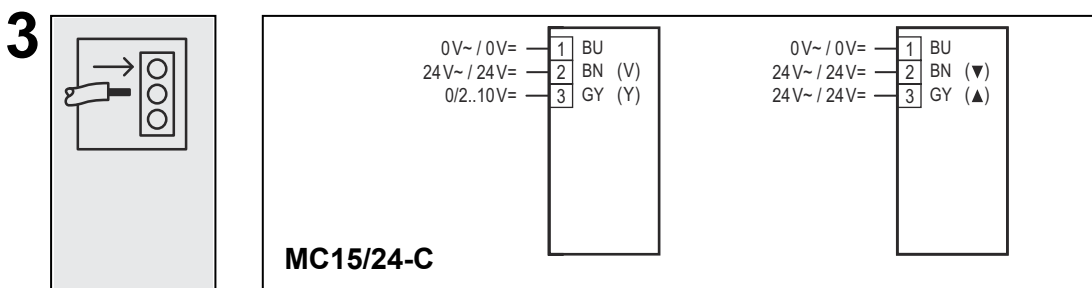
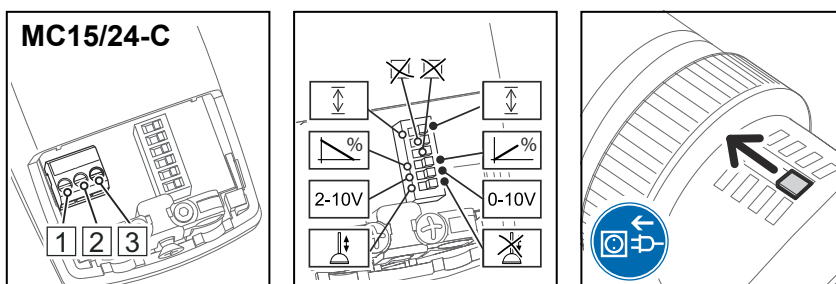
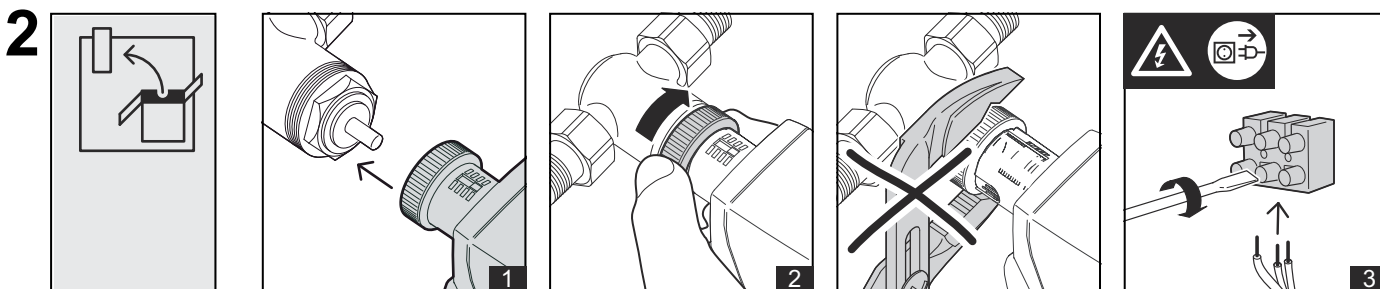
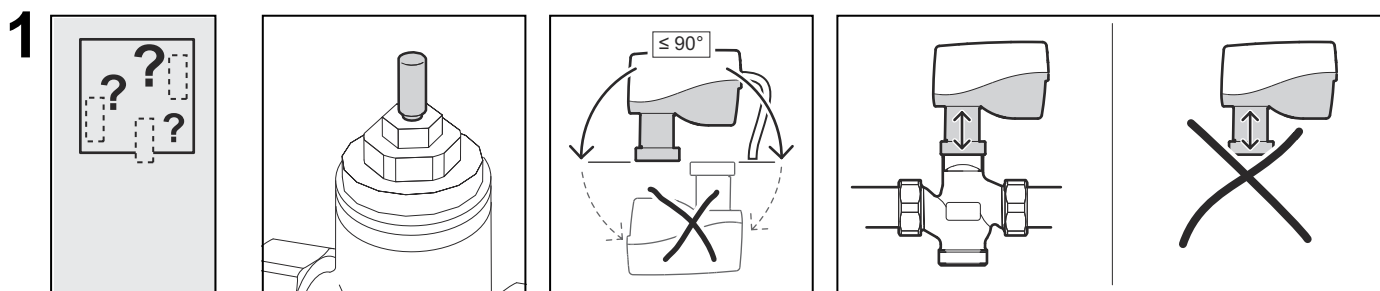
ВНИМАНИЕ! Монтаж и установка должны производиться только квалифицированным техперсоналом.

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MC15/24-C



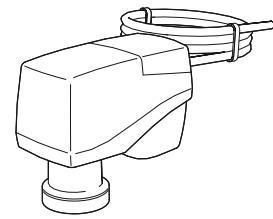
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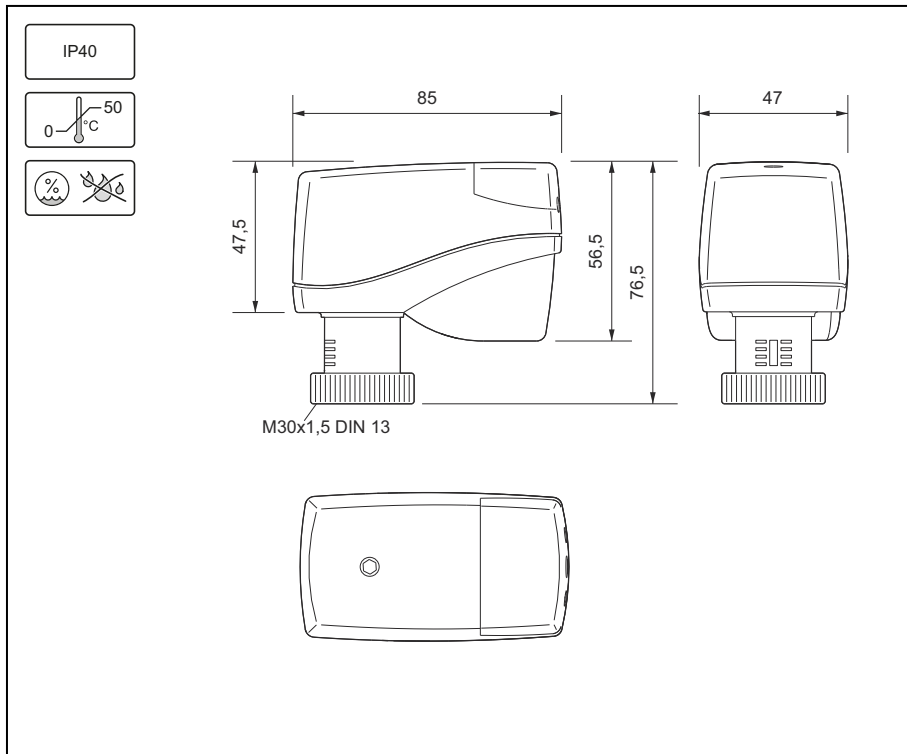
MC15/230-C

3.09-TA.120-99

2021-11-30



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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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MC15/230-C

