



## CA Series I Damper Actuator 10 Nm

2 Point & 3 Point Control



### PRODUCT FEATURES

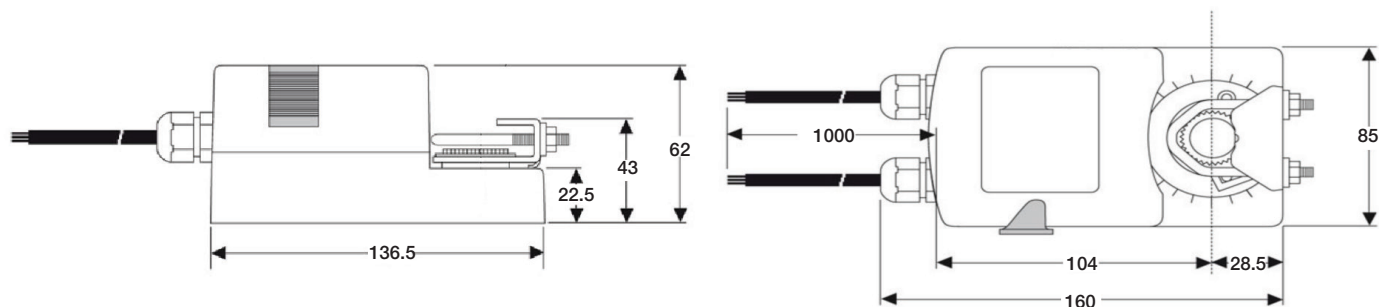
- Torque 10 Nm
- Damper size 2.0 m<sup>2</sup>
- Power Supply AC/DC 24 V and AC 230 V
- Control 2 Point and 3 Point
- 1 adjustable auxiliary switch (SPDT)
- Shaft dimensions Ø 10 to 17 mm (new 20 mm)
  - round / □ 5 to 12 mm (new 14 mm) square
- Minimum shaft length 45 mm
- Selectable direction of rotation
- Adjustable angle of rotation
- Actuator with 1000 mm cable connection
- Customer version on request

### MODEL SELECTION TABLE

Torque	Running Time	Power Supply	Auxiliary Switch	Model / Type
10 Nm	100...120 sec	AC/DC 24 V ± 10%	No	10CA - 24
10 Nm	100...120 sec	AC/DC 24 V ± 10%	1xSPDT	10CA - 24S1
10 Nm	100...120 sec	AC 230 V ± 10%	No	10CA - 230
10 Nm	100...120 sec	AC 230 V ± 10%	1xSPDT	10CA - 230S1

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### TECHNICAL SPECIFICATION

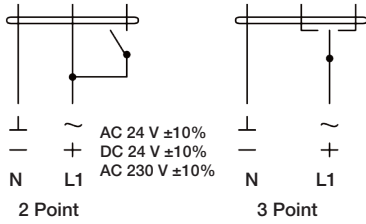
	10CA... 24(S1)	10CA... 230(S1)
<b>Torque</b>		10 Nm
<b>Damper Size</b>		2.0 m <sup>2</sup>
<b>Shaft dimensions new</b>	Ø 10 to 20 mm round / □ 5 to 14 mm square	
<b>Power Supply</b>	AC/DC 24 V ± 10%	AC 230 V ± 10%
<b>Frequency</b>	50 - 60 Hz	
<b>Control Signal</b>	2 point and 3 point	
<b>Power Consumption</b>		
- Operating	6.0 W	
- End Position	2.0 W	
<b>For Wire Sizing</b>	6.5 VA	
<b>Auxiliary Switch Rating</b>	3 (1.5) A, AC 250 V	
<b>Protection Class</b>	III ⬡	III □
<b>Angle of Rotation</b>	0°...90° (95° mechanical)	
<b>Angle of Limiting</b>	0°...90° in 10° steps	
<b>Weight</b>	< 1.0Kg	< 1.1Kg
<b>Life Cycle</b>	60'000 rotation	
<b>Sound Level</b>	45 dB (A)	
<b>IP Protection</b>	IP 54 (dust protected & protected against splash water)	
<b>Operating Temperature</b>	20°...+50° C / IEC 721-3-3	
<b>Non-Operating Temperature</b>	-30°...+60° C / IEC 721-3-2	
<b>Ambient Humidity</b>	5%...95% rH non condensing / EN 60730-1	
<b>Maintenance</b>	Maintenance free	
<b>Mode of Operation</b>	Type I / EN 60730-1	
<b>EMC</b>	CE according to 89 / 336 / EEC	

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## Wiring Diagram 10CA...(S1) Power Supply AC/DC 24 V - AC 230 V

M			24V	M		
Black	Red	White	230V	Black	Red	White
Blue	Brown	White		Blue	Brown	White

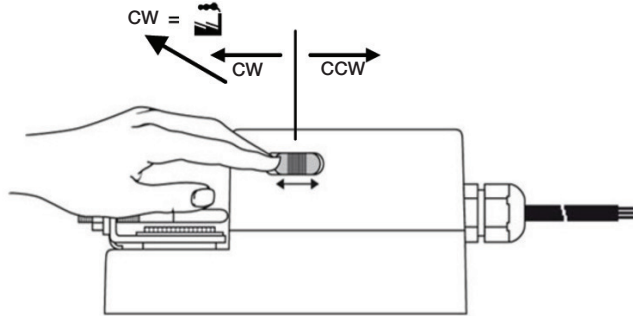


⚠ connect via safety isolating transformer

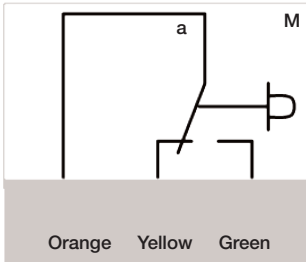
## Changing Direction of Rotation 10CA...(S1)

Factory-set CW!

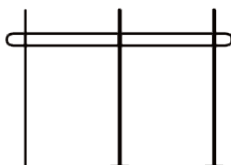
The direction of rotation can be changed by pushing the CW/CCW switch on the actuator's housing.



## Wiring Diagram 10CA...(S1) Auxiliary Switch



Orange Yellow Green  
S1 S2 S3

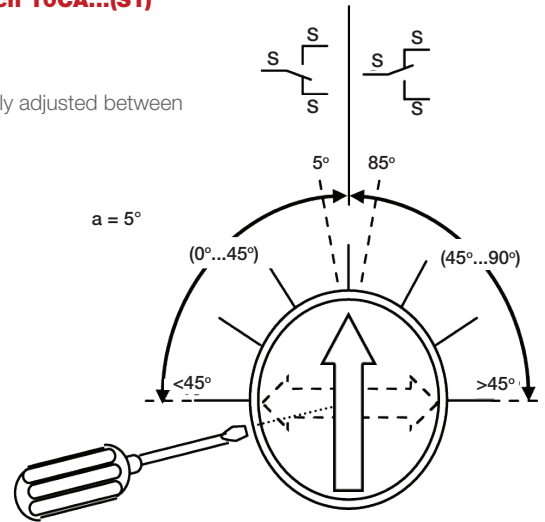


3 (1.5) A, AC 250 V  
Actuator at 0° position

## Adjustment of Auxiliary Switch 10CA...(S1)

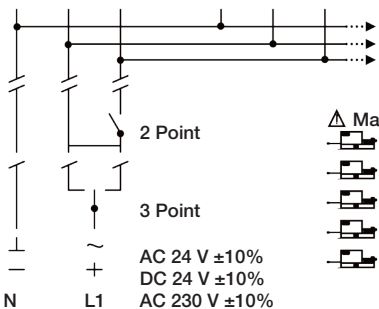
Switch a factory-set at 5°

The auxiliary switch can be optimally adjusted between 0°...90°.



## Wiring Diagram 10CA...(S1) Parallel Connection

Master	M			24V	M			Slave
	Black	Red	White	230V	Black	Red	White	
	Blue	Brown	White		Blue	Brown	White	



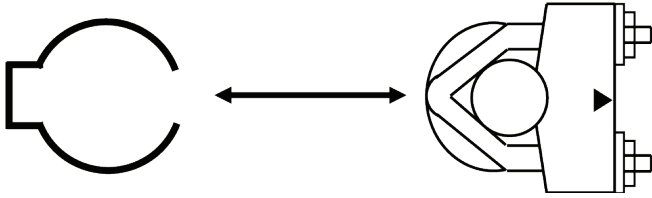
## Remark

Parallel connection of several 10CA...(S1) actuators is possible. The power consumption must be observed.

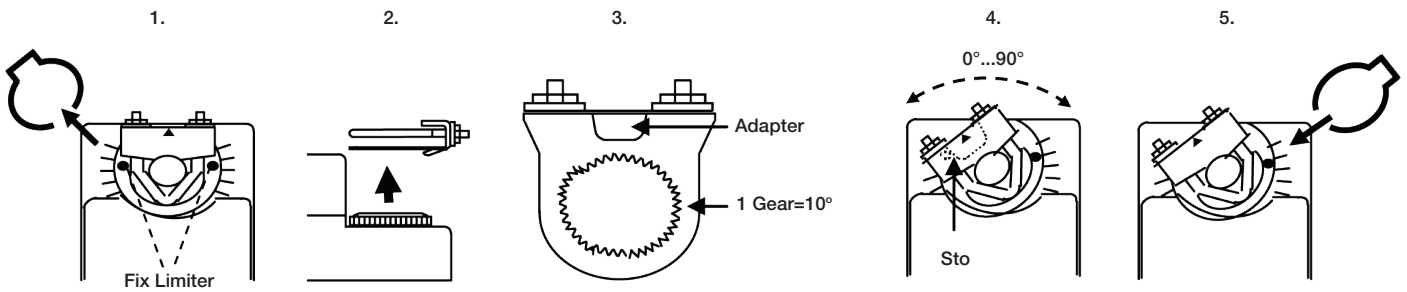
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### Releasing the Adapter 10CA...(S1)



### Limiting Angle of Rotation 10CA...(S1)



This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.



AC / DC 24 V: Connect via safety isolating transformer.

AC 230 V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3 mm contact gap).