

AXT 411: Thermal actuator for unit valves with stroke indicator

How energy efficiency is improved

Reliable actuation in efficient control systems

Features

- Low-force fitting on the valve using First Open function
- Fitted onto valve with M30 x 1.5 thread with closing dimension of 10.8 mm on the actuator side
- Pushing force max. 110 N
- With 230 V or 24 V thermal expansion element
- Position indicator
- NC "normally closed" and NO "normally open" versions
- Re-Open function: Actuator can be opened manually for service work
- Low-noise and maintenance-free
- Fixed harmonised cable ≥ 1 m with pre-insulated wire ends
- Plastic cap nut M30 x 1.5
- Fitting in any position, including upside down



AXT411F110



Technical data

Power supply

Power supply 24 V~	$\pm 20\%$, 50...60 Hz
Power supply 24 V=	$\pm 20\%$
Power supply 230 V~	$\pm 15\%$, 50...60 Hz
Power consumption during continuous operation ¹⁾	1.8 W (230 V~), 1.6 W (24 V=)
Starting power 24 V~/=	4.8 W/4.8 VA
Starting power 230 V~	34.5 W/34.5 VA
Start-up current 24 V~	200 mA
Start-up current 230 V~	150 mA

Parameters

Stroke	Max. 4.5 mm
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Ambient conditions

Operating temperature at valve	100 °C max.
Storage and transport temperature	-25...70 °C
Ambient temperature	0...50 °C
Ambient humidity	< 85% rh, no condensation

Construction

Housing	Traffic white (RAL 9016) (fire protection as per EN 60695-2-11, EN 60695-10-2)
Housing material	Flame-retardant plastic
Power cable	≥ 1 m, 2 x 0.75 mm ² , white, H05

Standards, directives

Type of protection	IP54 (EN 60730-1)
Protection class 24 V	III (EN 60730-1)
Protection class 230 V	II (EN 60730-1)

CE conformity according to	Low-Voltage Directive 2014/35/EU	EN 60730-1, EN 60730-2-14
	RoHS Directive 2011/65/EU	EN IEC 63000
	EMC Directive 2014/30/EU	EN 60730-1, EN 60730-2-14

Overview of types

Type	Features
AXT411F110	Model 230 V~, NC, 1 m cable, H05 (0.75 mm ²)
AXT411F112	Model 24 V=~/~, NC, 1 m cable, H05 (0.75 mm ²)

¹⁾ Unconfirmed values for the pilot series under nominal conditions.

Type	Features
AXT411F120	Model 230 V~, NC, 2 m cable, H05 (0.75 mm ²)
AXT411F122	Model 24 V~/~, NC, 2 m cable, H05 (0.75 mm ²)
AXT411F150	Model 230 V~, NC, 5 m cable, H05 (0.75 mm ²)
AXT411F152	Model 24 V~/~, NC, 5 m cable, H05 (0.75 mm ²)
AXT411F210	Model 230 V~, NO, 1 m cable, H05 (0.75 mm ²)
AXT411F212	Model 24 V~/~, NO, 1 m cable, H05 (0.75 mm ²)
AXT411F220	Model 230 V~, NO, 2 m cable, H05 (0.75 mm ²)
AXT411F222	Model 24 V~/~, NO, 2 m cable, H05 (0.75 mm ²)
AXT411F250	Model 230 V~, NO, 5 m cable, H05 (0.75 mm ²)
AXT411F252	Model 24 V~/~, NO, 5 m cable, H05 (0.75 mm ²)
AXT411F120H	Model 230 V~, NC, 2 m cable halogen-free, H05 (0.75 mm ²)
AXT411F122H	Model 24 V~/~, NC, 2 m cable halogen-free, H05 (0.75 mm ²)

Technical details

i The closing force is independent; the counterforce (load) depends on the SAUTER valves.

Type	Voltage	Max. stroke (mm)	Closing force (N)	NC/NO	Min. running time (minutes)	Weight (kg)
White version, including M30 × 1.5 cap nut, cable 1 m, pack of one						
AXT411F110	230 V	4.5	110	NC	3.5	0.10
AXT411F210	230 V	4.5	110	NO	3.5	0.10
AXT411F112	24 V	4.5	110	NC	4.5	0.10
AXT411F212	24 V	4.5	110	NO	4.5	0.10