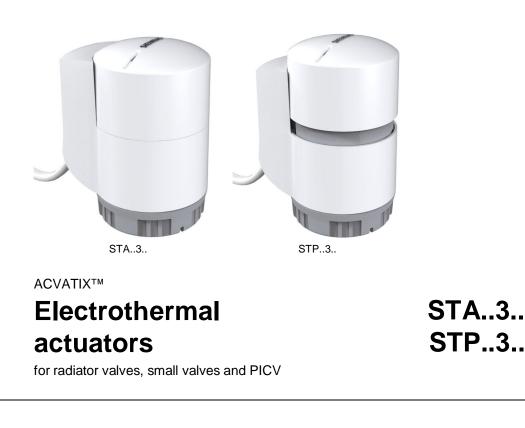
SIEMENS



• Operating voltage AC/DC 24 V,

• Operating voltage AC 230 V,

- Time Pro
- (pulse-duration modulation/ Time Proportional Integral)

2-point positioning signal or PDM/TPI

- 2-point positioning signal
- Operating voltage AC 24 V, Positioning signal DC 0...10 V
- Positioning force 100 N, (Variants for FHD with 90 N)
- Standard version with connecting cable (2 m / 1 m / 0.8 m)
- Actuators without connecting cable used together with:
 - Connecting cable for up to 15 meters, halogen-free available to 10 meters
 - Connecting cable with LED operating indication
 - Connecting cable with auxiliary switch or DC 0...10 V module
- Variants supporting synchronous operation of multiple actuators switched in parallel
- 270° visible position indication
- Mounting using a sliding sleeve lock (bayonet)
- Adaptor for mounting on third-party valves
- Dismantling protection (optional)
- Automatic adaption of close dimension
- IP54
- Robust, maintenance-free, noise-free

	 Used in interior rooms For Siemens valves: Radiator valves Small valves Zone valves PICV MiniCombiValves (MCV) 	VDN, VEN and VUN VD1CLC, VP47 VI46 VPP46, VPI46, VQP46, VQI46 VPD and VPE
	 Direct assembly: 	Heimeier, Cazzaniga, Oventrop M30 x 1.5, Honeywell-Braukmann and MNG
	Mounting using an adapteFor additional valves, see "E	
Fast selection	combinations and applications actuators using connecting cal	TP3 covers the widest range of equipment . The cable in a standard length is included with oles. Actuators without connecting cables can be ppropriate cables, see Accessories / <i>Connecting</i> additional accessories.
Examples	The following examples simplif application (including accessor	y fast selection of actuators appropriate to the ries).
Starting paint	Broodure for quick poloeti	'an

Starting point	ŀ	Procedure for quick selection
Example 1 • Valves used: VVP47 • Connecting cable length: App • Operating voltage: AC	1 2 pprox. 0.6 m 2 230 V	 See "Equipment combinations" on page 6. Correct actuator (group): STP See "Type summary" on page 3, Table "Actuators with connecting cable": Actuator STP23 (with 1 m connecting cable)
Example 2• Valves used: VDN• Connecting cable length: ca.• Operating voltage: AC• Color Bla	. 5 m 2 24 V	 See "Equipment combinations" on page 6 Actuator (group): STA No proper device can be found in the "Type summary" on page 3, Table "Actuators with connecting cable". Select an actuator without connecting cable due to the desired color and length of the connecting cable: STA73B/00 Select the appropriate connecting cable from the table "Accessories / Connecting cable", page 4: ASY23L50B

Actuators with connecting cable

Туре	Item No.	Position de- energized ¹⁾		Positioning signal	Positioning time	Connecting cable	Weight
STA73	S55174-A100	NC	AC/DC 24 V	2-position, PDM/TPI ²⁾	270 s	1 m	181 g
STA23	S55174-A101	NC	AC 230 V	2-position 4)	210 s	1 m	181 g
STP73	S55174-A102	NO	AC/DC 24 V	2-position, PDM/TPI ²⁾	270 s	1 m	177 g
STP23	S55174-A103	NO	AC 230 V	2-position 4)	210 s	1 m	177 g
STA63	S55174-A104	NC	AC 24 V	DC 010 V	270 s ⁵⁾	2 m	205 g
STP63	S55174-A105	NO	AC 24 V	DC 010 V	270 s ⁵⁾	2 m	201 g
STA73HD 3)	S55174-A106	NC	AC/DC 24 V	2-position	270 s	0.8 m	174 g
STA23HD 3)	S55174-A107	NC	AC 230 V	2-position	210 s	0.8 m	174 g

¹⁾ NC = Normally Closed = (valve) powerless closed, with regart to radiator valves, VPP46../VPI46.., VQP46../VQI46.. and VVI46../VXI46..

NO = Normally Open = (valve) po

(valve) powerless open , with regart to radiator valves, VPP46../VPI46.. and VVI46../VXI46. (valve) powerless closed with regard to the small valves V..P47.. .

²⁾ Pulse Duration Modulation/Time Proportional Integral together with Desigo room controllers and other Siemens controllers according to their data sheet. Not suitable for parallel run

³⁾ For floor heating distributors, 90 N

⁴⁾ Pulse Duration Modulation (PDM)/Time Proportional Integral (TPI) possible with Siemens Thermostats where explicitly stated in the thermostats data sheet. Not suitable for parallel run in connection with PDM/TPI.

⁵⁾ Min. runtime ca. 40 s/mm in control mode (after heating-up time)

Actuators without connecting cables

(see "Accessories" for proper cables)

				Pos.sig	nal/µ	oos.time ²⁾		
		Position de-	Operating		PDM/	•	Cable	
Туре	Item No.	energized. 1)	voltage	2-position	TPI	DC 010 V	group	Weight
Version in white I	RAL 9016							
STA73/00 5)	S55174-A109	NC	AC/DC 24 V	270 s	5	270 s ⁶⁾	1, 2, 7, 9	133 g
STA23/00	S55174-A110	NC	AC 230 V	210 s	-	_	1, 7	133 g
STP73/00 ⁵⁾	S55174-A111	NO	AC/DC 24 V	270 s	3	270 s ⁶⁾	1, 3, 8, 9	129 g
STP23/00	S55174-A112	NO	AC 230 V	210 s	_	_	1, 8	129 g
STA73PR/00 3)	S55174-A115	NC	AC/DC 24 V	270 s	6	_	1, 7, 9	133 g
STP73PR/00 3)	S55174-A116	NO	AC/DC 24 V	270 s	3	-	1, 8, 9	129 g
STA73 MP/00 4)	S55174-A113	NC	AC/DC 24 V	270 s	3	270 s ⁶⁾	1, 7, 9	133 g
STA23 MP/00 4)	S55174-A114	NC	AC 230 V	210 s	-	_	1, 7	133 g
Version in black								

Version in black RAL 9005

STA73B/00	S55174-A117	NC	AC/DC 24 V	270 :	S	270 s ⁶⁾	4	133 g
STA23B/00	S55174-A118	NC	AC 230 V	210	-	-	4	133 g

¹⁾ NC = Normally Closed =

sed = (valve) powerless closed, with regart to radiator valves, VPP46../VPI46.., VQP46../VQI46..
 and VVI46../VXI46.
 en = (valve) powerless open, with regart to radiator valves, VPP46../VPI46.. and VVI46../VXI46.

NO = Normally Open =

(valve) powerless closed with regard to the small valves V...P47...

²⁾ At an ambient temperature of 20 °C.

³⁾ Suitable for parallel operation even in connection with PDM/TPI (Pulse Duration Modulation/Time Proportional Integral) or on/off control ⁴⁾ Packaging unit: 50 pieces (OEM)

⁵⁾ In connection with an ASY6AL.. resp. ASY6PL.. DC 0...10 V connection cable/module, the operating voltage is limited to AC 24 V only. ⁶⁾Min. runtime ca. 40 s/mm in control mode (after heating-up time)

Accessories

Connecting cable/connecting	g cable with function module
-----------------------------	------------------------------

									ng voltage	
Туре	Item No.	Cable group	Length [m]	Weight [g]	Assembled with	Cable coating	Positioning signal	STA23 STP23	STA73 STP73	Color
ASY23L08	S55174-A121		0,8	42						
ASY23L20	S55174-A123		2	81						
ASY23L50	S55174-A126	1	5	223						White
ASY23L100	S55174-A129		10	435		PVC				
ASY23L150	S55174-A130		15	646	_		2-position	AC 230 V	AC/DC 24 V	
ASY23L30B	S55174-A131	4	3	139			_ poon.on	//0 200 V	10/00 24 1	Black
ASY23L50B	S55174-A132	4	5	223						DIACK
ASY23L20HF	S55174-A134		2	100						
ASY23L50HF	S55174-A135	1	5	218		Halogen- free				
ASY23L100HF	S55174-A136		10	466						
ASY6AL20	S55174-A137	2	2	72		PVC				
ASY6PL20	S55174-A140	3	2	72	Function module	FVC	DC 010 V		AC 24 V	
ASY6AL20HF	S55174-A147	2	2	61	DC 010 V	Halogen-	DC 010 V	_	AC 24 V	White
ASY6PL20HF	S55174-A150	3	2	61	D0 010 V	free				
ASA23U10	S55174-A153	7	1	75	Auxiliary switch for STA			AC 000 V		
ASP23U10	S55174-A155	8	1	75	Auxiliary switch for STP	PVC	2-position	AC 230 V	AC/DC 24 V	
ASY23L20LD	S55174-A157	9	2	70	LED			-		

Adapter

Туре	Item NO.	For third-party valves	Description
AV53	AV53	Danfoss RA-N	Metal
AV63	S55174-A165	Giacomini M30x1.5	Plastic
AV59	AV59	Vaillant	Metal
AV64	S55174-A166	Pettinaroli M28x1,5	Plastic
AL100	AL100	Siemens 2W, 3W and 4W valves	Metal
AV301	S55174-A159	Valves with M30 x 1.5	Higher bayonet adapter, 5 mm ¹⁾
AV302	S55174-A160	Valves with M28 x 1,5 - Comap - Markaryd - Herz	Higher bayonet adapter, 5 mm ¹⁾
AV303	S55174-A161	Valves with M30 x 1 - TA	Higher sliding sleeve adapter (bayonet), 5 mm ¹⁾
AV304	S55174-A167	Various (5 pieces)	Adapter set for installers
AV305	S55174-A169	Valves with M30 x 1.5	Alternate bayonet adapter set (10 pieces) ²⁾
AV306	S55174-A171	Valves with M28x1.5 - preset able radiator valves by Markaryd	Higher sliding sleeve adapter (bayonet), 5 mm (10 pieces) ²⁾

¹⁾ The insert is with or without a 5 mm extension depending on assembly.

²⁾ Only 10 pack available

Protection against	Туре	Item no.	Description
dismantling	AL431	S55174-A168	Tamper-proof fitting to prevent dismantling of the actuator

Ordering

	When ordering, specify the quantity, product name, and type code.
Example 1	1 actuator STA23 with 1 m connecting cable and
	1 adapter AV301
Example 2	1 actuator STP73/00 without connecting cable,
	1 connecting cable ASY23L20LD, 2 m length with LED operating indication operating voltage AC/DC 24 V, white
	1 adapter AV301
Delivery	Actuators, valves and accessories are supplied in separate packages.

Equipment combinations

Siemens valve type	Actuator	Valve type	k _{vs} [m³/h]	[I∕h]	PN class	Data sheet valve
VDN, VEN, VUN	STA	Radiator valves	0.091.41	-		N2105, N2106
VPD, VPE	STA	MCV MiniCombiValves	-	25483	PN 10	N2185
VD1CLC	STA	Small valves	0.252.6	-		N2103
VVI46, VXI46	STA	Zone valves	25	-	PN 16	N4842
VP47	STP	Small valves	0.254	-	FINIO	N4847
VPP46, VPI46				-		
(DN10DN15)	STP	PICV	_	30575	PN 25	N4855
(DN10DN32)	STA			303400		
VQP46, VQI46	STA	On/Off PICV	_	301800	PN 25	A6V11877580

Third-party valves, connection M30 x 1.5, without adapter

Radiator valves

- Heimeier
- Watts (Cazzaniga)
- Oventrop M30 x 1.5 (as of 2001)
- Honeywell-Braukmann

MGN

Valves from additional manufacturers upon request

Additional radiator valves with adapters AV.. see "Accessories/Adapter" page 5

k_{vs} = Nominal flow value for cold water (5...30 °C) through a fully opened valve (H₁₀₀), at a differential pressure of 100 kPa (1 bar)

 \dot{V} = Volumetric flow at 0.5 mm stroke

Technical notes

NO, NC valves	 NO valves Valve is opened without actuator (Normally Open) The valve stem is fully extended Typical examples: Radiator valves (VDN, VEN, VUN), small valves (VD1CLC), zone valves (VI46) and PICV (VP, VQ). 			
	 NC valves Valve is closed without actuator (Normally closed) The valve stem is fully extended Example: Small valve VP47 			
	Most third-party valves are NO valves.			
Valve and actuator combination	 NO function STA actuator stem is extended when de-energized. NC valve required. 			
	 NC function STA actuator stem is extended when de-energized. NO valve required. 			
Note NO function	The valve is closed in a de-energized state for most valve applications featuring thermal actuators			
(Normally Open)	Actuators with the opposite control action, are used when the reverse function is required: The valve is open in a de-energized state.			
	The following table displays the appropriate combinations.			

Note

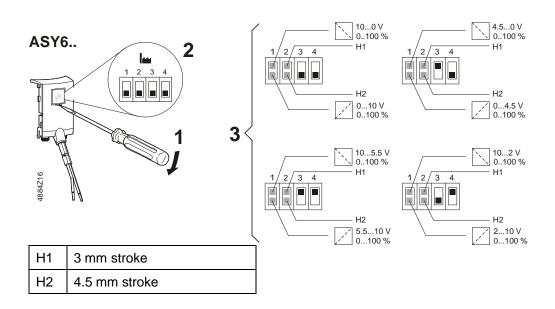
Response at deenergized actuator

		De-energized actuator				
Valve	Туре	STA	STP			
Radiator valves	VDN, VEN, VUN	Closed	Open ¹⁾²⁾			
Small valves	VP47	$A \leftrightarrow AB \text{ open}^{(1) 2)}$	$A \leftrightarrow AB$ closed			
	VD1CLC	Closed	Open ¹⁾²⁾			
Zone valves	VI46	AB ↔ A closed	$AB \leftrightarrow A \text{ open}^{(1) 2)}$			
PICV	VPD, VPE	Closed	Open ¹⁾²⁾			
	VPP46, VPI46					
	VQP46, VQI46					
¹⁾ Controller must support NO valve actuator combinations.						
²⁾ Combination not recommended as it makes no sense in terms of energy outside of demand period.						

Technical and mechanical design

Actuator operation	The electrothermal actuators STA and STP are noise-free and maintenance- free. When the control signal is applied to the actuator, the temperature of the heating element rises, which causes the solid expansion medium to expand. It transfers its stroke directly to the installed valve. The valve starts to open after preheating for approx. 1.5 min if the heating element is switched on in a cold state (room temperature), and achieves the maximum stroke after another approx. 2 min (230 V) or 3 min (24 V). At power-off, the expansion element cools down and the valve will be closed by the spring. This has the following effect for the actuator types below:
STA73, STA23 (NC) 2-position, PDM/TPI	The actuator stem retracts and the radiator valve is opened by the own spring. The actuator stem extends when de-energized and the radiator valve is closed.
STP73, STP23 (NO) 2-position, PDM/TPI	The actuator stem extends and the small valve, VP47, is opened. The actuator stem retracts when de-energized and the small valve is closed by the own spring.
STA63 STA73/00 with DC 010 V module	The actuator stem retracts and the radiator valve is opened by the spring. The position of the stem is proportional to the DC 010 V positioning signal. The actuator stem extends when de-energized and the radiator valve is closed. The actuator deploys to the 50% stroke position if the positioning signal is lost when applying operating voltage. DC 010 V actuators support various operation modes, see also under DIP-Switch settings
STP63 STP73/00 with DC 010 V module	The actuator stem extends and the small valve, VP47, is opened. The position of the stem is proportional to the DC 010 V positioning signal. The actuator stem retracts when de-energized and the small valve is closed by the own spring. The actuator deploys to the 50% stroke position if the positioning signal is lost when applying operating voltage. DC 010 V actuators support various operation modes, see also under DIP-Switch settings

STA63../STP63.. DIP-switch settings

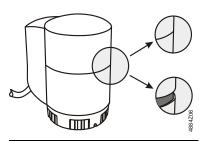


The movement and actual position of the actuator is indicated by the gray interior

Position indication on the actuator

STA..

STP..



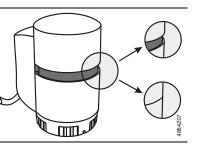
part.

De-energized actuator

- The actuator's stem is extended
- The "valve is closed.

Actuator > 3 minutes with power

- The valve stem is retracted.
- The "valve is opened.



De-energized actuator

- The actuator's stem is retracted.
- The ²⁾valve is closed.

Actuator > 3 minutes with power

- The actuator's stem is extended
- The ²⁾valve is opened.

 $^{\rm 1)}$ With regard to radiator valves, VPP46../VPI46.., VQP46../VQI46.. and VVI46../VXI46 . $^{\rm 2)}$ With regard to V..P47..

Automatic adaption of
close - dimensionLocking the sliding sleeve, bayonet-ring, triggers the mechanical adaption of the
close- dimension. This affects a pre-tensioning for NC types (STA..) on the valve
stem resulting in a sealed valve. For NO types (STP..), the actuator stem will be
positioned above the valve spindle without pre-tension.

Lies in the range between 8.5...13.5 mm¹⁾

Adaption of closedimension for STA.. actuators (NC)

Adaption of close dimension for STP.. Actuators (NO) Lies in the range between 12.5...17.5 mm ¹⁾

¹⁾ when used with the supplied standard sliding sleeve

Adaption of closedimension with higher sliding sleeve (bayonetnut) AV301, AV302 und AV303, bayonet-nut, AV.. (accessories) A higher sliding sleeve, bayonet nut, is used in the following cases:

- a. If the diameter of the actuator's sliding sleeve, bayonet-ring (42,5 mm) prevents assembly (e.g. angle valves, valves with measurement ports) and
- b. To adapt to the desired thread size for third-party manufacturers (M28 x 1.5 or M30 x 1)

It must be used with insert A (black) if a higher sliding sleeve adapter (bayonet) is used to maintain the close-dimension range.

Options

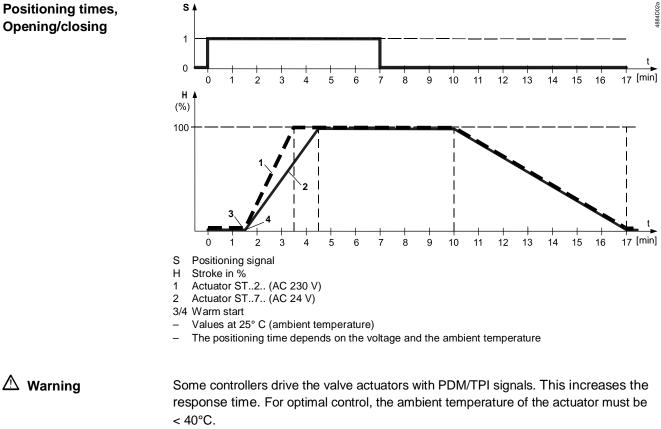
- To achieve the close-dimension range, reduced by 5 mm, the sliding sleeve adapter must be used together with insert B (white).
- To achieve the close-dimension range, increased by 5 mm, the sliding sleeve adapter must be used without insert A or B.

Expansion to the close-dimension is required to adapt to third-party valves that do not operate within the standard close dimension range.

	Standard	Higher bayonet adapter			
	bayonet-nut	AV301 → M30 x 1,5			
		AV302 → M28 x 1,5			
		AV303 → M30 x 1			
	No insert	Insert-A (black)	Insert-B (white)	No insert	
STA	8.5 13.5	8.5 13.5	3.5 8.5	13.5 18.5	
STP	12.5 17.5	12.5 17.5	7.5 12.5	17.5 22.5	

Close-dimension range with the different adapters:

Positioning times, **Opening/closing**





Pulse-duration modulation/Time Proportional Integral

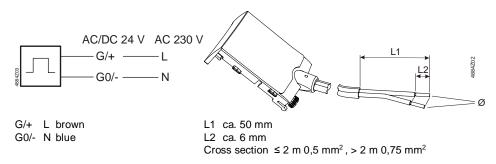
Accessories

Separate connecting cable

The actuators STA../00 and STP../00 are supplied without a connecting cable. They can be assembled as per the table "Accessories/connecting cables" on page 4. The product also includes halogen-free cable (Lengths 2 / 5 / 10 m).

ASY23L..

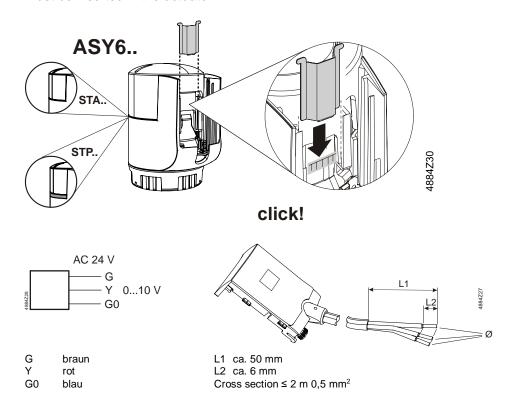
Standard connecting cable for all STA.. and STP.. Actuators for open/close positioning signal AC 24 V or AC 230 V with PVC coating. Lengths 0.8 / 2 / 3 / 5 / 10 / 15 m.



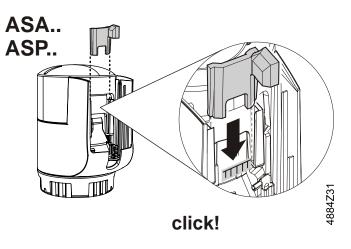
ASY6AL..

The connecting cables are available in various lengths and coating quality with DC 0...10 V control module and AC 24 V voltage supply, can be combined with STA73/00 thermal actuators. To this end, the metal bridge supplied with the cable must be inserted in the actuator.

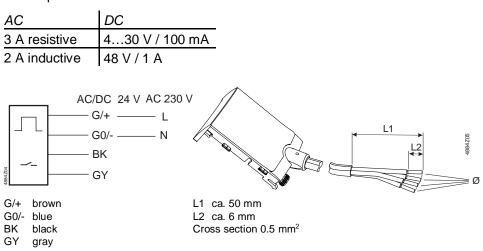
ASY6PL.. The connecting cables are available in various lengths and coating quality with DC 0...10 V control module and AC 24 V voltage supply, can be combined with STP73/00 thermal actuators. To this end, the metal bridge supplied with the cable must be inserted in the actuator.



ASA23U10 with aux. switch for STA../00 ASP23U10 with aux. switch for STP../00 Connecting cable with PVC coating and integrated auxiliary switch for all STA../00, STP../00 actuators for open/close positioning signal AC 24 V or AC 230 V. Length 1 m. To this end, the plastic bridge supplied with the cable must be inserted in the actuator.



Switch power:

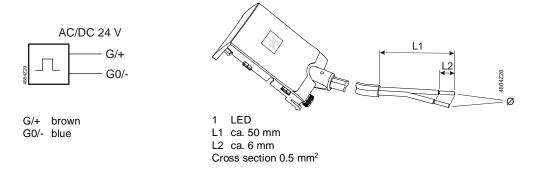


Switch-point: Between 1.5 and 2.3 mm stroke

ASY23L20LD

with LED indicator

The same as AS..23U but for AC/DC 24 V only. The green LED is lit synchronously with the open/close control. It visually indicates control and provides support during commissioning and service. Length 2 m.

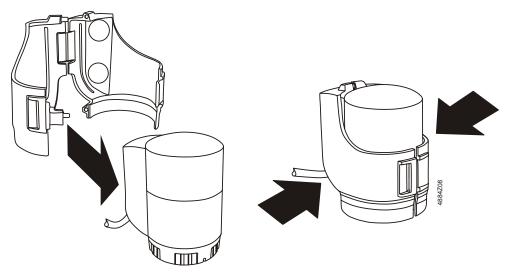


Adapter AV.. for thirdparty valves

Adapters are available for mounting the STA.. and STP.. actuators on valves from other manufacturers (see "Accessories/Adapters" on page 5).

Tamper-proof fitting AL431

Tamper-proof fittings can be used to prevent unauthorized intervention on the actuators.



J	
Mounting on valve	Mounting instructions are included in the packaging.
	 Actuators STA or STP are supplied as separate units. They can be assembled with just a few movements prior to commissioning: Remove the protective cover from the valve body Insert the sliding sleeve, bayonet-nut, on the valve and manually tighten Put actuator in position and manually tighten (clockwise) the bayonet-ring until a second click STA/00, STP/00: Plug in the connecting cable Connect to operating voltage only after mounting
	Hints for the dismounting:
	 Interrupt the power supply and disconnect the connection cable Wait for 6 min. until the actuator is cooled down
	• Turn the sliding sleeve, bayonet-ring, counter clockwise to the end-position At dismounting the actuator will be set automatically to the original position (factory setting).
	Seldom may happen that the actuator will be released from the valve together with the valve whereby the bayonet-nut stuck in the actuator. In order to re-use the actuator, the actuator's stem has to be re-set to the original position (factory setting). For this purpose, turn the actuator up-side-down and push back the stem with simultaneous counter clock wise turning of the sliding sleeve, bayonet-ring, until latching.
\triangle Warning	Do not use pipe wrenches, spanners or similar!
Mounting positions	Actuators may be installed in all positions (IP54 standard guaranteed).
Notes on electrical installation	 Comply with all local regulations when installing. Connect the connecting cable downward and away from the bottom. Provide for a means to isolate from mains power/connecting voltage, e.g. by connecting an automatic circuit breaker or switch fuse upstream of the control upit.

unit.

The actuator is maintenance-free.

RepairDisconnect the connecting cable from the operating voltage prior to replacing.Opening the actuator can cause irreparable damage. It may also result in injury
from the installed, strong spring.

The actuator cannot be repaired; the entire unit must be replaced.

Disposal



• The device is considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Warranty

The technical data relating to specific applications are valid only in conjunction with the valves listed under "Equipment combinations" in this data sheet on page "6".

When using STA.. and STP.. actuators, users are responsible for ensuring the proper functioning of actuators when used together with third-party valves; any guarantees on the part of Siemens Building Technologies expire accordingly.

Technical data

		STA73 / STA73/00 STA73HD STP73 / STP73/00	STA23, STA23/00 STA23HD STP23, STP23/00	STA63 STP63		
Power supply	Operating voltage Frequency	AC/DC 24 V ± 20 % ¹) AC 230 V ± 15 % 50 / 60 Hz 50 / 60 Hz		AC 24 V ± 20 % 50 / 60 Hz		
	Power consumption at 50 Hz Operation At power-up	2.5 W 6 VA	2.5 W 58 VA	2.5 W 6 VA		
	Switch-on current (transient)	250 mA	250 mA	250 mA		
Signal input	Primary fuse Positioning signal	2-position, PDM/TPI 2)	External	DC 010 V		
Signal Input	Parallel operation	DC 010 V ³⁾	2-position	(Power consumption 0.06 mA		
	of multiple actuators	ST3PR/00	May be limited by the	e controller's output power		
Operating data	Positioning time at 20 °C, 50 Hz Positioning force	270 s	210 s 100 N, STAHD 90	270 s ⁶⁾		
	Nominal stroke	Max	. 4.5 mm	4.5 mm (adjustable 3 mm ⁴⁾)		
	Permissible temperature of medium in the connected valve		1110 °C			
	Actuator stem for "de-energized actuator"		STA extended STP retracted			
	Radiator valves (e.g. VD) Small valves (VP47)	See "Equipment combinations" on page 6.				
	Zone valves (VI46)					
	Maintenance	-	red			
Electrical connection	Cable length	See page 3, "Type summary" or page 4, "Connecting cables" and page 5, "Adapter" 2 m				
• • • • • • • •	Cross section ⁵⁾	Strands 2 x 0.5 mm ² Strands 2 x 0,75 mm ² Strands 3 x 0.5 m				
lounting	Attached to the valve Mounting position	Bayonet-nut/-ring M30 x 1.5; – see also under adapters				
Colors	Cover	Any, 360° White, RAL 9016; STAB/00 black, RAL 9005				
	Lower part	STA light gray, RAL 7035, STP Traffic gray, RAL 7042 STAB/00 black, RAL 9005				
	Connecting cables	See "Connecting cables" on page 4 and page 5, "Adapter"				
Norms and directives for	Electromagnetic compatibility (Application)	For residential, commercial and industrial environments				
actuators and connecting cables	Product standard	EN60730-x and EN60335-x				
	EU Conformity (CE)					
	STA	8000072738 ⁷⁾				
	STP Protection class as per					
	Degree of pollution	EN 60730 Class III EN 60730 Class II EN 60730 Class III As per EN 60730 class II				
	Housing type	IP54 as per EN 60529				
	Environmental compatibility	The product environmental declaration CE1E4884en ⁷⁾ contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit,				
Dimensions	Dimensions		disposal). See "Dimensions" on pa	ne 17		
Veight	Actuator weight					
	Weight of connecting cable ASY	See table "Type summary" actuators with and without connecting cable on pa See table Accessories page 4				
Materials STA, STP	Cover and lower part		Polycarbonate			
Conn. cables	ASY, ASP	PVC				
	ASYHF Halogen-free as per VDE 0207-24					
	 Permitted for safety extra-low voltage only (SELV, PELV) PDM = Pulse-duration modulation / TPI = Time Proportional Integral It is recommended to use a variable cycle time to increase life time. STA73/00, STA73 MP/00 and STA73B/00, with connecting cable ASY6AL STP73/00 with connecting cable ASY6PL Can be set using the DIP switch under the cover on the connecting cable. See Mounting instructions M4884 Separate cable, see page 4 Min. runtime ca. 40 s/mm in control mode (after heating-up time) The documents can be downloaded from http://siemens.com/bt/download 					

General ambient conditions		Operation EN 60721-3-3	Transportation EN 60721-3-2	Storage EN 60721-3-1
	Temperature	550 °C	–2060 °C	550 °C
	Temperature for quasi-continuous control	540 °C	_	-
	Humidity	< 85 % r.h.	< 95 % r.h.	5100 % r.h.

Connecting cables

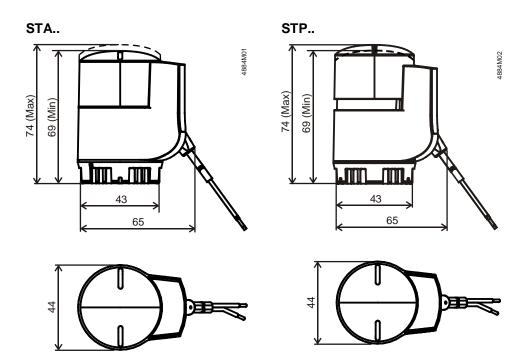
Connecting cables w/o 010 V module		ASY23	ASY23B	ASY23HF	ASY23L20LD	ASA23U10	ASP23U10
	Length [m]	0.8/2/3/5/ 10/15	3/5	2/5/10	2	1	1
	Cross section [mm ^{2]}	≤ 2 m: 0.50	0.75	0.75	0.50	0.50	0.50
		> 2 m: 0.75	0.75	0.75	0.50	0.50	0.50
	Operating voltage [V]	24 / 230 ¹⁾	24 / 230 ¹⁾	24 / 230 ¹⁾	24	24 / 230 ¹⁾	24 / 230 ¹⁾
	Housing color	White, RAL 9016	Black, RAL 9005	White, RAL 9016	White, RAL 9016	White, RAL 9016	White, RAL 9016
	Coating	PVC	PVC	Halogen-free	PVC	PVC	PVC
	Auxiliary switch	-	_	-	_	х	х
	Switch-point auxiliary switch	_	_	-	-	1.5 2.3 mm stroke	1.5 2.3 mm stroke
	Indicator	-	_	-	LED	_	-
	Weight	See Table on page 4					

¹⁾ AC 230 V with STA23../STP23.., AC/DC 24 V with STA73../STP73..

Connecting cables with 0...10 V module

	ASY6AL		ASY6PL	
	ASY6AL20	ASY6AL20HF	ASY6PL20	ASY6PL20HF
Length [m]	2	2	2	2
Cross section [mm ^{2]}	0.22	0.22	0.22	0.22
Operating voltage [V AC]	24	24	24	24
Color	White, RAL 9016	White, RAL 9016	White, RAL 9016	White, RAL 9016
Coating	PVC	Halogen-free	PVC	Halogen-free
Signal	010 V	010 V	010 V	010 V
Interior resistance Ri	100 kΩ	100 kΩ	100 kΩ	100 kΩ
Weight	See Table on page 4			

Dimensions in mm



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