





ACVATIX™ Electrothermal actuators

STA..3.. STP..3..

- for radiators, small and Combi valves
- Operating voltage AC/DC 24 V,
- 2-point positioning signal or PDM (pulse-duration modulation) 2-point positioning signal
- Operating voltage AC 230 V,
- 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 (1 m / 0.8 m)
- Actuators without connecting cable used together with:
 - Connecting cable for up to 15 meters, halogen-free also available
 - 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

	- - .	VDN, VEN and VUN VD1CLC, VP47 VI46 VPP46, VPI46 VPD and VPE Heimeier, Cazzaniga, Oventrop M30 x 1.5, Honeywell-Braukmann and MNG : See "Type summary/Accessories" on page 3. Equipment combinations" on page 5.
Fast selection	combinations and applications actuators using connecting cat	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/connecting or additional accessories.
Examples	The following examples simplif application (including accessor	fy fast selection of actuators appropriate to the ries).
o		

Starting point	ŀ	Procedure for quick selection		
Example 1• Valves used: VVP47• Connecting cable length: Appr• Operating voltage: AC 2	2	 See "Equipment combinations" on page 5. Correct actuator (group): STP See "Type summary" on page 3, Table "Actuator with connecting cable": Actuator STP23 (with 1 m connecting cable) 		
Example 2Valves used:VDNConnecting cable length:Ca.Operating voltage:AC 2ColorBlac	5 m 24 V	 See "Equipment combinations" on page 5 Actuator (group): STA No proper device can be found in the "Type summary" on page 3, Table "Actuator 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

		Position de-			Positioning	Connecting	
Туре	Item No.	energized ¹⁾	voltage	Positioning signal	time	cable	Weight
STA73	S55174-A100	NC	AC/DC 24 V	2-position, PDM 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 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.. and VVI46../VXI46.

NO = Normally Open = (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 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) possible with Siemens Thermostats where explicitly stated in the thermostats data sheet. Not suitable for parallel run in connection with PDM

⁵⁾ Min. runtime ca. 30 s/mm in control mode (heat-up time)

Actuators without connecting cables

(see "Accessories" for proper cables)

		Position de-	Operating	Pos.signal.	· .	Cable	
Туре	Item No.	energized. ¹⁾	voltage	2-position PDI	/ DC 010 V	group	Weight
Version in white	RAL 9016						
STA73/00 ⁵⁾	S55174-A109	NC	AC/DC 24 V	270 s	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	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	-	1, 7, 9	133 g
STP73PR/00 3)	S55174-A116	NO	AC/DC 24 V	270 s	-	1, 8, 9	129 g
STA73MP/00 4)	S55174-A113	NC	AC/DC 24 V	270 s	270 s ⁶⁾	1, 7, 9	195 g
STA23MP/00 4)	S55174-A114	NC	AC 230 V	210 s –	-	1, 7	195 g
Version in black	RAL 9005						
STA73B/00	S55174-A117	NC	AC/DC 24 V	270 s	270 s ⁶⁾	4, 5	133 g
STA23B/00	S55174-A118	NC	AC 230 V	210 –	-	4	133 g
STP73B/00	S55174-A119	NO	AC/DC 24 V	270 s	270 s ⁶⁾	4, 6	129 g
STP23B/00	S55174-A120	NO	AC 230 V	210 s -	_	4	129 g

NC = Normally Closed = (valve) powerless closed, with regart to radiator valves, VPP46../VPI46.. and VVI46../VXI46.
 NO = Normally Open = (valve) powerless open, with regart to radiator valves, VPP46../VPI46.. and VVI46../VXI46.

(valve) powerless open, with regard to the small valves, VP40...VP40... and VV4 (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 (Pulse Duration Modulation) 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. 30 s/mm in control mode (heat-up time)

Accessories

Connecting cable/connecting 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						
ASY23L10	S55174-A122		1	48						
ASY23L20	S55174-A123		2	81						
ASY23L30	S55174-A124		3	139						
ASY23L40	S55174-A125	1	4	181						White
ASY23L50	S55174-A126	1	5	223						vvnite
ASY23L60	S55174-A127		6	266		PVC				
ASY23L70	S55174-A128		7	308			2 position	AC 220 V		
ASY23L100	S55174-A129		10	435	_		2-position	AC 230 V	AC/DC 24 V	
ASY23L150	S55174-A130		15	646						
ASY23L30B	S55174-A131		3	139						
ASY23L50B	S55174-A132	4	5	223						Black
ASY23L100B	S55174-A133		10	435						
ASY23L20HF	S55174-A134		2	100						
ASY23L50HF	S55174-A135	1	5	218		Halogen- free				
ASY23L100HF	S55174-A136		10	466						
ASY6AL20	S55174-A137		2	72						
ASY6AL50	S55174-A138	2	5	131		PVC				White
ASY6AL70	S55174-A139		7	176						
ASY6PL20	S55174-A140		2	72						
ASY6PL50	S55174-A141	3	5	131						
ASY6PL70	S55174-A142		7	176		FVC				
ASY6AL20B	S55174-A143		2	72						
ASY6AL50B	S55174-A144	5	5	131	Function module		DC 010 V	-	AC 24 V	Plaak
ASY6AL70B	S55174-A145		7	176	DC 010 V					Black
ASY6PL20B	S55174-A146	6	2	72	200					
ASY6AL20HF	S55174-A147		2	61						
ASY6AL50HF	S55174-A148	2	5	129						
ASY6AL70HF	S55174-A149		7	174		Halogen-				
ASY6PL20HF	S55174-A150		2	61		free				
ASY6PL50HF	S55174-A151	3	5	129						
ASY6PL70HF	S55174-A152		7	174						
ASA23U10	S55174-A153		1	75	Auxiliary					White
ASA23U20	S55174-A154	7	2	121	switch for STA			A.C. 000.14		
ASP23U10	S55174-A155		1	75	Auxiliary		0	AC 230 V		
ASP23U20	S55174-A156	8	2	121	switch for STP	PVC	2-position		AC/DC 24 V	V
ASY23L20LD	S55174-A157	9	2	70	LED					
ASY23L50LD	S55174-A158	9	5	129	LED			_		

Adapter

Туре	Item NO.	For third-party valves	Description
AV53	AV53	Danfoss RA-N	Metal
AV63	S55174-A165	Giacomini	Plastic
AV59	AV59	Vaillant	Metal
AV64	S55174-A166	Pettinaroli M28x1,5	Metal
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)

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

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

Order	ina
0.001	

	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 ASY23L50LD, 5 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]	[l∕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
VI46	STA	Zone valves	25	-	PN 16	N4842
VP47	STP	Small valves	0.254	-	PN IO	N4847
VPP46, VPI46 (DN10DN15)	STA	Combi valves	-	30575	PN 25	N4855

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), sm valves (VD1CLC), zone valves (VI46) and Combi valves (VP).
	 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			
Siliali valves	VD1CLC	Closed	Open ¹⁾²⁾			
Zone valves	VI46	$AB \leftrightarrow A \ closed$	AB \leftrightarrow A open ^{1) 2)}			
Combi valves	VPD, VPE VPP46, VPI46,	Closed	Open ^{1) 2)}			

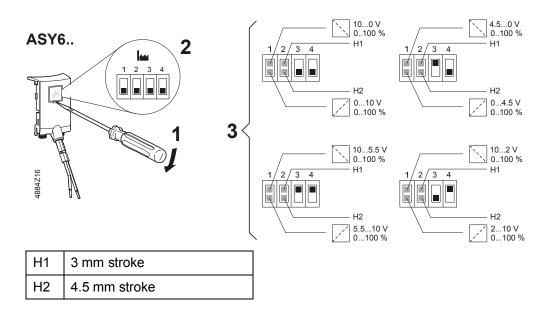
1) Controller must support NO valve actuator combinations.

2) Combination not recommended as actuator life decreases significantly due to continuous voltage applied to the drive in summer. Makes no sense in terms of energy.

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. 3 min if the heating element is switched on in a cold state (room temperature), and achieves the maximum stroke after another approx. 2.5 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	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	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

STP63../STP63.. DIP-switch settings



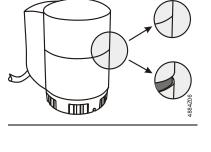
Position indication on the actuator

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

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STA..

STP..



Actuator > 3 minutes with power

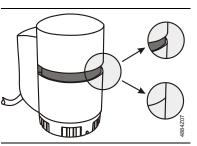
De-energized actuator

The ¹⁾valve is closed.

• The valve stem is retracted.

The actuator's stem is extended

• The ¹⁾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.

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

Automatic adaption of close - dimension

Locking 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⁾

Lies in the range between 12.5...17.5 mm¹⁾

¹⁾ when used with the supplied standard sliding sleeve

Adaption of closedimension for STA.. actuators (NC)

Adaption of close dimension for STP.. Actuators (NO)

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

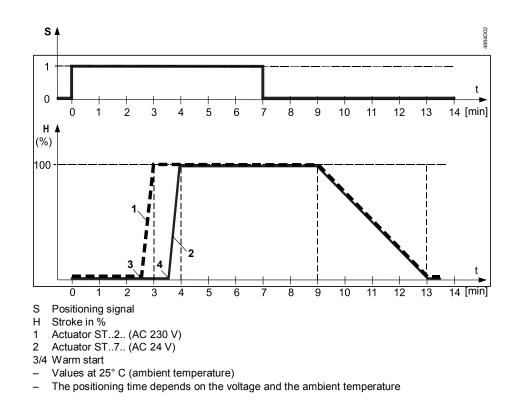
- To achieve the close-dimension range, reduced by 5 mm, the sliding sleeve adapter must be used together with insert B (white).
- To achieve the close-dimension range, increased by 5 mm, the sliding sleeve adapter must be used without insert A or B.

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 10.5	17.5 22.5		

Close-dimension range with the different adapters:

Positioning times, Opening/closing



∆ Warning

Some controllers drive the valve actuators with pulsed signals. This increases the response time. For optimal control, the ambient temperature of the actuator must be $< 40^{\circ}$ C.



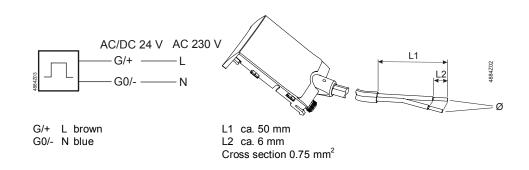
Pulse-duration modulation

Accessories

Separate connecting
cableThe 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.

ASY23L..

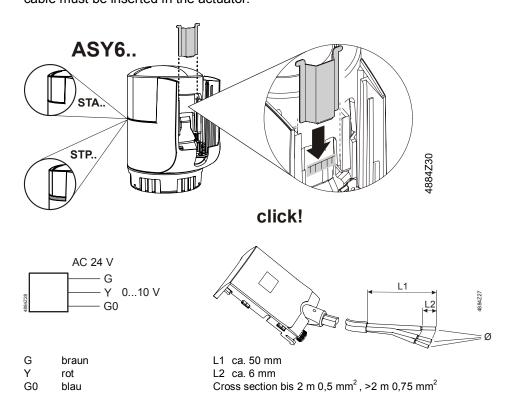
Standard connecting cable for all STA.. and STP.. Actuators for open/close positioning signal AC 24 V or AC 230 V with PVC coating. Lengths 0.8...15 m.



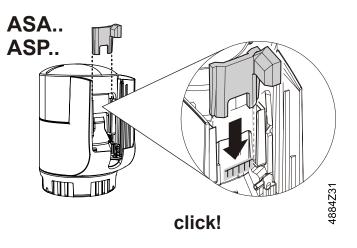
ASY6AL..

The connecting cables are available in various lengths, colors 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.

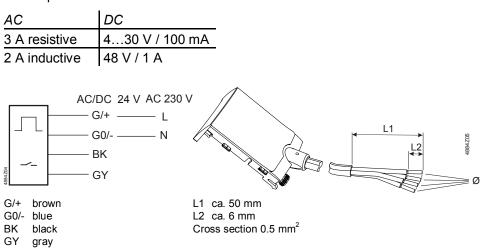
ASY6PL.. The connecting cables are available in various lengths, colors and coating quality with DC 0...10 V control module and AC 24 V voltage supply, can be combined with STP73/00 thermal actuators. To this end, the metal bridge supplied with the cable must be inserted in the actuator.



ASA23U.. with aux. switch for STA../00 ASP23U.. 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. Lengths 1 or 2 m. To this end, the plastic bridge supplied with the cable must be inserted in the actuator.



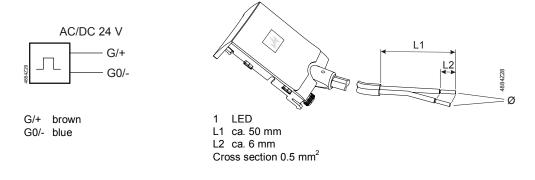
Switch power:



Switch-point: Between 1.5 and 2.3 mm stroke

ASY23..LD with LED indicator

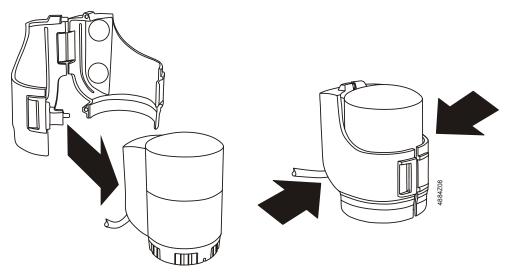
The same as AS..23U but for AC/DC 24 V only. The green LED is lit synchronously with the open/close control. It visually indicates control and provides support during commissioning and service. Lengths 1 or 2 m.



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.



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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.					
▲ 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 unit. 					
Maintenance						
	The actuator is maintenance-free.					
Repair	Disconnect 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.					



Warranty

Do not dispose of the device in domestic waste. Legislation may demand special handling of certain components, or it may be sensible from an ecological point of view. **Observe all local, applicable laws.**

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 "5".

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⁾ 50 / 60 Hz	AC 230 V ± 15 % 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			
	Primary fuse		External				
Signal input	Positioning signal	2-position, PDM ²⁾ DC 010 V ³⁾	2-position	DC 010 V			
	Parallel operation of multiple actuators	For PDM ST3PR/00	, ,	controller's output power			
Operating data	Positioning time at 20 °C, 50 Hz	270 s	210 s	270 s ⁶⁾			
	Positioning force		100 N, STAHD 90 N				
	Nominal stroke	Max. 4	.5 mm	4.5 mm (adjustable 3 mm			
	Permissible temperature of medium in the connected valve		1110 °C				
	Actuator stem for "de-energized actuator"		STA extended STP closed				
	Radiator valves (e.g. VD)						
	Small valves (VP47)	See "Equipment combinations" on page 5.					
	Zone valves (VI46)						
	Maintenance		No maintenance required				
Electrical connection Cable length		See page 3, "Type summary" "Connecting cables"	1 m				
	Cross section ⁵⁾	Strands 2 x 0.5 mm ²	Strands 2 x 0,75 mm ²	Strands 3 x 0.5 mm ²			
lounting	Attached to the valve	Bayonet-nut/-r	ing M30 x 1.5; – see also ur	nder adapters			
	Mounting position	Any, 360°					
olors	Cover	White, RAL 9016, STAB/00 and STPB/00 black, RAL 9005					
	Lower part	STA light gray, RAL 7035, STP Traffic gray, RAL 7042 STAB/00 and STPB/00 black, RAL 9005					
	Connecting cables	See "Connecting cables" on page 4 and page 16					
tandard for ctuators and onnecting cables	CE conformity As per EMC directive:	2004/108/EC					
connecting capies	Immunity	EN 61000-6-1 Residential					
	Emissions	EN 61000-6-3 Residential					
	Electrical safety	SELV	/ (PELV as per IEC 60364-4	-41)			
	Low-voltage directive		2006/95/EC				
	Protection class as per	EN 60730 Class III	EN 60730 Class II	EN 60730 Class III			
	Degree of pollution	As per EN 60730 class II					
	Housing type	IP54 as per EN 60529					
	Environmental compatibility	ISO 14001 (environment)					
		ISO 9001 (quality) SN 36350 (Environmentally compatible products) RL 2002/95/EC (RoHS)		e products)			
Dimensions	Dimensions	See "Dimensions" on page 16		6			
Veight	Actuator weight	See table "Type summary" actuators with and without connecting cable on					
	Weight of connecting cable ASY	See table Type summary actuators with and without connecting cable of page					
Materials STA, STP	Cover and lower part		Polycarbonate				
Conn. cables	ASY, ASP		PVC				
	ASYHF	Halogen-free as per VDE 0207-24					

PDM = Pulse-duration modulation STA73/00, STA73MP/00 and STA73B/00, with connecting cable ASY6AI.. STP73B/00 STP73/00 and with connecting cable ASY6PL.. 3)

4) Can be set using the DIP switch under the cover on the connecting cable. See Mounting instructions M4884

5) 6)

Separate cable, see page 16 Min. runtime ca. 30 s/mm in control mode (heat-up time)

General ambient conditions		Operation EN 60721-3-3	Transportation EN 60721-3-2	Storage EN 60721-3-1
	Temperature	550 °C	–20…60 °C	550 °C
	Temperature for quasi-continuous control	540 °C	-	-
	Humidity	< 85 % r.h.	< 95% r.h.	5100 % r.h.

Connecting cables

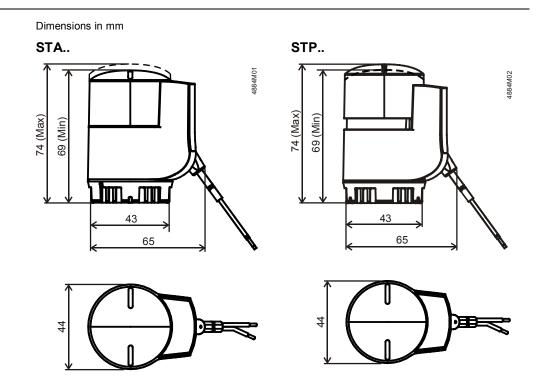
Connecting cables w/o 010 V module		ASY23	ASY23B	ASY23HF	ASY23LD	ASA23	ASP23	
	Length [m]	0.815	310	210	2/5	1/2	1 /2	
	Cross section [mm ^{2]}	≤ 2 m: 0.50	0.75	0.75	1 m: 0.50	0.50	0.50	
		> 2 m: 0.75	0.75	0.75	5 m: 0.75	0.50	0.50	
	Operating voltage [V]	24 / 230 ¹⁾	24 / 230 ¹⁾	24 / 230 ¹⁾	24	24 / 230 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 STA2	3/STP23, AC/	DC 24 V with S	TA73/STP73				

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

Connecting cables with 0...10 V module

	ASY6A			ASY6P			
	ASY6A	ASY6AB	ASY6AHF	ASY6P	ASY6PB	ASY6PHF	
Length [m]	2/5/7	2/5/7	2/5/7	2/5/7	2	2/5/7	
Cross section [mm ^{2]}	0.22	0.22	0.22	0.22	0.22	0.22	
Operating voltage [V AC]	24	24	24	24	24	24	
Color	White, RAL 9016	Black, RAL 9005	White, RAL 9016	White, RAL 9016	Black, RAL 9005	White, RAL 9016	
Coating	PVC	PVC	Halogen-free	PVC	PVC	Halogen-free	
Signal	010 V	010 V	010 V	010 V	010 V	010 V	
Interior resistance Ri	100 kΩ	100 kΩ	100 kΩ	100 kΩ	100 kΩ	100 kΩ	
Weight	See Table on page 4						

Dimensions



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