SIEMENS





- Operating voltage AC/DC 24 V,
- Operating voltage AC 230 V,
- Operating voltage AC 24 V,
- Positioning force 100 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

2-point positioning signal or PDM (pulse-duration modulation)

2-point positioning signal

Positioning signal DC 0...10 V

- 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

Building Technologies

	 Small valves Zone valves Combi valves Combi valves MiniCombiValves (MCV) For third-party valves Direct assembly: Mounting using an adapter: 	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. Juipment combinations" on page 5.
Fast selection	combinations and applications.	P3 covers the widest range of equipment The cable in a standard length is included with es. Actuators without connecting cables can be propriate cables, see "Accessories/connecting additional accessories.
Examples	The following examples simplify application (including accessorie	fast selection of actuators appropriate to the es).
Starting point	Procedure for quick selection	1

Starting point	Procedure for quick selection
 Example 1 Valves used: VVP47 Connecting cable length: Approx Operating voltage: AC 230 	
Example 2• Valves used: VDN• Connecting cable length: Ca. 5 m• Operating voltage: AC 24 v• Color• Black	3. Select an actuator without connecting cable due to the desired color and length of the

Actuators with connecting cable

		Position de-	Operating			Connecting	
Туре	Item No.	energized ¹⁾	voltage	Positioning signal		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	30 s	1 m	205 g
STP63	S55174-A105	NO	AC 24 V	DC 010 V	30 s	1 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 regard to 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

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

Actuators without connecting cables

(see "Accessories" for proper cables)

		Position de-	Operating	Pos.sig	nal / p	oos.time ²⁾	Cable	
Туре	Item No.	energized. ¹⁾	voltage	2-position	PDM	DC 010 V	group	Weight
Version in white RAL 9016								
STA73/00 5)	S55174-A109	NC	AC/DC 24 V	270 s	;	30 s	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	5	30 s	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	5	_	1, 7, 9	133 g
STP73PR/00 3)	S55174-A116	NO	AC/DC 24 V	270 s	5	_	1, 8, 9	129 g
STA73MP/00 ⁴⁾	S55174-A113	NC	AC/DC 24 V	270 s	5	30 s	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	5	30 s	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	5	30 s	4, 6	129 g
STP23B/00	S55174-A120	NO	AC 230 V	210 s	-	_	4	129 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 regard to V..P47..) ²⁾ At an ambient temperature of 20 °C.

³⁾ Suitable for parallel operation even in connection with PDM (Pulse Duration Modulation)

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.

Accessories

Connecting cable/connecting cable with function module

Connecting	cable/connecting ca							Operati	ng voltage	
-			Length		Assembled	Cable	Positioning	STA23	STA73	<u>.</u>
Туре	Item No.	group	[m]	[g]	with	coating	signal	STP23	STP73	Color
-	S55174-A121		0,8	42						
	S55174-A122		1	48						
	S55174-A123		2	81						
ASY23L30	S55174-A124		3	139						
ASY23L40	S55174-A125	1	4	181						White
ASY23L50	S55174-A126		5	223						
ASY23L60	S55174-A127		6	266		PVC				
ASY23L70	S55174-A128		7	308	_		2-position	AC 230 V	AC/DC 24 V	
ASY23L100	S55174-A129		10	435						
ASY23L150	S55174-A130		15	646						
ASY23L30B	S55174-A131		3	139						
ASY23L50B	S55174-A132	4	5	223	ļ					Black
ASY23L100B	S55174-A133		10	435						
ASY23L20HF	S55174-A134		2	100		Helegon				
ASY23L50HF	S55174-A135	1	5	218		Halogen- free				
ASY23L100HF	S55174-A136		10	466						
ASY6AL20	S55174-A137		2	72						
ASY6AL50	S55174-A138	2	5	131						White
ASY6AL70	S55174-A139		7	176						
ASY6PL20	S55174-A140		2	72						
ASY6PL50	S55174-A141	3	5	131		PVC				
ASY6PL70	S55174-A142		7	176						
ASY6AL20B	S55174-A143		2	72						
ASY6AL50B	S55174-A144	5	5	131	Function module		DC 010 V	_	AC 24 V	Black
ASY6AL70B	S55174-A145		7	176	DC 010 V		DC 010 V	_	AC 24 V	DIACK
ASY6PL20B	S55174-A146	6	2	72	DO 010 V					
ASY6AL20HF	S55174-A147		2	61						
ASY6AL50HF	S55174-A148	2	5	129						
ASY6AL70HF	S55174-A149		7	174		Halogen-				
ASY6PL20HF	S55174-A150		2	61		free				
	S55174-A151	3	5	129						
	S55174-A152		7	174	1					
	S55174-A153		1	75	Auxiliary					White
454231120	S55174-A154	7	2	121	switch for STA					
ASP23U10	S55174-A155		1	75	Auxiliary			AC 230 V		
ASP231120	S55174-A156	8	2	121	switch for STP	PVC	2-position		AC/DC 24 V	
			2	70					1	
ASY23L20LD	S55174-A157	9	_	-	LED					

Adapter

Туре	Item NO.	For third-party valves	Description
AV533	S55174-A164	Danfoss RA2000	Plastic
AV63	S55174-A165	Giacomini	Plastic
AV59	AV59	Vaillant	-
AV64	S55174-A166	Pettinaroli M28x1,5	-
AV304	S55174-A167	Various (5 pieces)	Adapter set for installers
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⁾

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

Ordering	
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	When ordering, specify the quantity, product name, and type code.
Example 1	1 actuator STA23 with 1 m connecting cable and
	1 adapter AV533
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 AV533
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	-		N4847
VPP46, VPI46	STA	Combi valves	_	301330	PN 25	N4855

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

Radiator valves	Small valves	
Heimeier	TA type TBV-C	
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 "Access	ories/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 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 functionSTA actuator stem is extended when de-energized.NO valve required.
Note NO function (Normally Open)	The valve is closed in a de-energized state for most valve applications featuring thermal actuators 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 de-

energized actuator

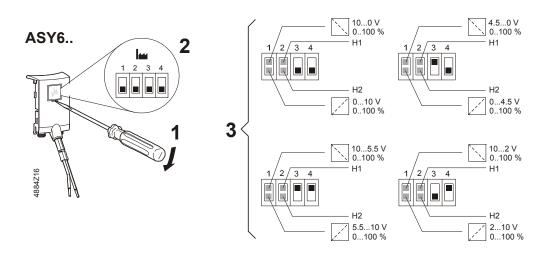
		De-energized actuator		
Valve	Туре	STA	STP	
Radiator valves	VDN, VEN, VUN	Closed	Open ¹⁾	
Small valves	VP47	$A \leftrightarrow AB \text{ open }^{1)}$	$A \leftrightarrow AB \text{ closed}$	
Small valves	VD1CLC	Closed	Open ¹⁾	
Zone valves	VI46	$AB \leftrightarrow A \text{ closed}$	$AB \leftrightarrow A \text{ open}^{(1)}$	
Combi valves	VPD, VPE VPP46, VPI46,	Closed	Open ¹⁾	

¹⁾ Controller must support NO valve actuator combinations.

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 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

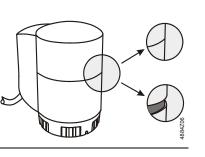


The movement and actual position of the actuator is indicated by the gray interior

Position indication on the actuator

STA..

STP...



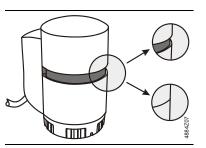
part.

De-energized actuator

- The actuator's stem is extended
- The ¹⁾valve is closed.

Actuator > 3 minutes with power

- The valve stem is retracted.
- 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

ion of 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.

Adaption of closedimension for STA.. actuators (NC)

Adaption of close dimension for STP.. Actuators (NO) 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 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 combined with insert A (black) to avoid changing the close - dimension range using an higher sliding sleeve adapter (bayonet).

Options

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

An 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 Insert-B (black) (black) No inse				
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:

S Positioning times, 4884D01 **Opening/closing** 1 → t [min] 0 н 100 0 5 6 7 8 9 10 11 3 4 t [min] S Positioning signal н Stroke in % Actuator ST..2.. (AC 230 V) 1 2 Actuator ST..7.. (AC 24 V) 3 Warm start Values at 25° C (ambient temperature) - The positioning time depends on the voltage and the ambient temperature

▲ Warning

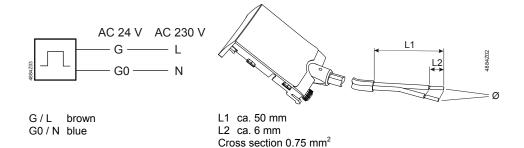
Some controllers drive the valve actuators with pulsed signals. This increases the response time. For optimal control, the ambient temperature of the actuator must be < 40° C.



Pulse-duration modulation

Accessories

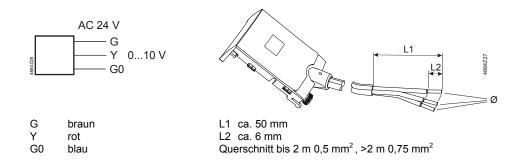
Separate connecting
cableThe actuators STA../00 and STP../00 are supplied without a connecting cable.
They can be assembled as per the table "Accessories/connecting cables" on
page 4. The product also includes halogen-free cable.ASY23L..Standard connecting cable for all STA.. and STP.. Actuators for open/close
positioning signal AC 24 V or AC 230 V with PVC coating. Lengths 0.8...15 m.



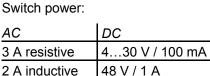
ASY6AL..

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.

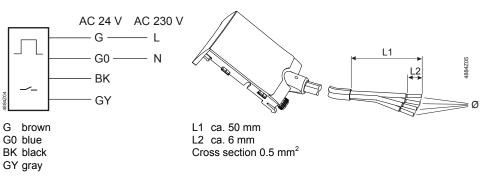
ASY6PL.. The connecting cables are available in various lengths, colors and coating quality with DC 0...10 V control module and AC 24 V voltage supply, can be combined with STA73/00 thermal actuators.



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.

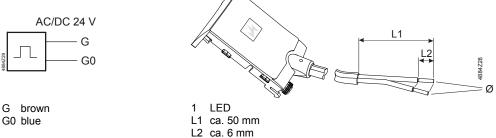


2 A inductive 48 V / 1 A



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.

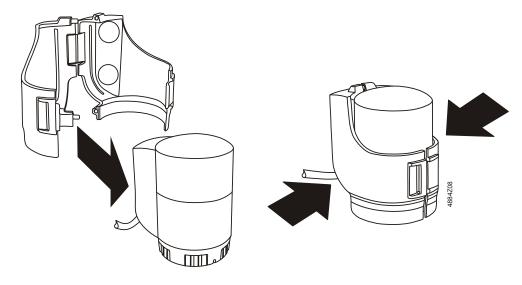


Cross section 0.5 mm²

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.



Mounting and installation notes

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	 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. The actuator cannot be repaired; the entire unit must be replaced.
Disposal	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.
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 "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 STP73 / STP73/00 STA73HD	STA23, STA23/00 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	2.5 W	2.5 W	2.5 W		
	At power-up	6 VA	58 VA	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	controller's output power			
Operating data	Positioning time at 20 °C, 50 Hz	270 s	210 s	30 s		
	Positioning force		100 N	·		
	Nominal stroke	Min. 3	mm	Up to 4.5 mm (adjustable to max. 3 mm ⁴⁾)		
	Permissible temperature of medium in the connected valve		1110 °C			
	Actuator stem for		STA extended			
	de-energized actuator"		STP closed			
	Radiator valves (e.g. VD)					
	Small valves (VP47)	See "Ec	quipment combinations" on	page 5.		
	Zone valves (VI46)]				
	Maintenance					
Electrical connection Cable length		No maintenance required See page 3, "Type summary" or page 4 and page 15, "Connecting cables"		1 m		
	Cross section 5)	Strands 2 x 0.5 mm ²	Strands 2 x 0,75 mm ²	Strands 2 x 0.5 mm ²		
Mounting	Attached to the valve	Bayonet-nut/-r	ing M30 x 1.5; – see also u	inder adapters		
	Mounting position		Any, 360°			
Colors	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 "Conne	ecting cables" on page 4 ar	nd page 15		
Standard for	CE conformity					
actuators and	As per EMC directive:	2004/108/EC				
connecting cables	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)				
Dimensions	Dimensions	See "Dimensions" on page 15				
Weight	Actuator weight	See table "Type summary" actuators with and without connecting cable on page 3.				
	Weight of connecting cable ASY	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				

1) Permitted for safety extra-low voltage only (SELV, PELV)

2) 3)

PDM = Pulse-duration modulation STA73/00, STA73MP/00 and STA73B/00, with connecting cable ASY6AI..

STP73B/00 STP73/00 and with connecting cable ASY6PL.. Can be set using the DIP switch under the cover on the connecting cable. See Mounting instructions M4884 4) 5) Separate cable, see page 15

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.

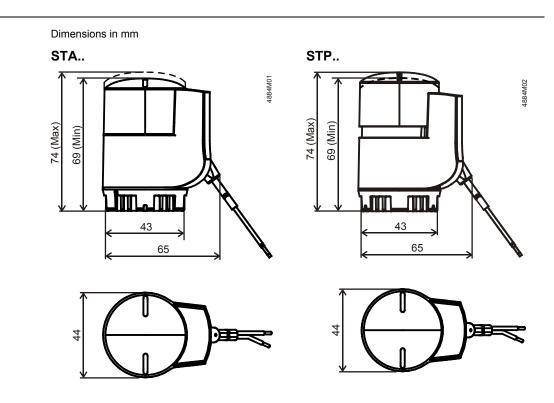
Connecting cables

Connecting cables ASY23..HF ASY23..LD ASY23.. ASY23..B ASA23.. ASP23.. w/o 0...10 V module Length [m] 0.8...15 3...10 2...10 2/5 1/2 1 /2 Cross section [mm^{2]} ≤ 2 m: 0.50 1 m: 0.50 0.75 0.75 0.50 0.50 5 m: 0.75 > 2 m: 0.75 24 / 230 1) 24 / 230 1) 24 / 230 1) 24 / 230 1) Operating voltage [V] 24 / 230 1) 24 Housing color White, Black, White, White, White, White, RAL 9016 RAL 9005 RAL 9016 RAL 9016 RAL 9016 RAL 9016 Coating PVC PVC Halogen-free PVC PVC PVC Auxiliary switch х _ _ х _ LED Indicator _ _ _ _ See Table on page 4 Weight 1)

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

Connecting cables with 010 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					
	Interior resistance Ri	100 kΩ					
Weight See Table on page 4							

Dimensions



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