

## TIME-PROPORTIONAL POWER CONTROLLER STS 1

STS 1 can be used e.g. with thermal actuators and heating applications with resistive loads from 0.1A to 4 A.

STS 1 is working time proportionally controlling the 230Vac power in cycles of about 20s by a 0...10 Vdc control signal.

No galvanic contact exists between the control signal and the 230 Vac.

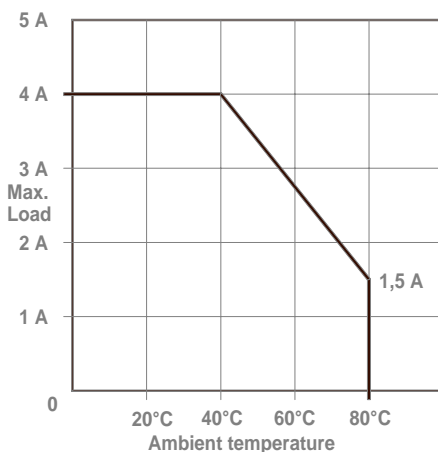
Electrical noise and high peaks of current are reduced by using the zero voltage switching.

Note! Device is not working with loads below 0,1A and 48Vac.

### INSTALLATION INSTRUCTIONS:

To prevent problems resulting from the over-heating note the instructions below:

- installation position must be vertical
- free space of 10 mm must be on both sides and 20mm up and down and in front of the device
- max. power dissipation is 8W
- max. allowed load depends on the ambient temperature; see picture below



### Technical data:

|                        |                         |
|------------------------|-------------------------|
| Supply                 | 24 Vac, < 1VA           |
| Input (control signal) | 0...10 Vdc, 0,5 mA max  |
| Load max.              | 230 Vac, 4 A res. (AC1) |
| min.                   | 48Vac, 0.1A             |
| Cycle                  | about 20 s              |
| Terminals              | 2,5 mm <sup>2</sup>     |
| Dimensions (w x h x d) | 22,5 x 77 x 52,5 mm     |
| Safety fuse            | 10 A                    |

### Wiring:

|    |    |                                   |
|----|----|-----------------------------------|
| 1  | G  | 24Vac                             |
| 2  | Go | 0 V                               |
| 3  | Y  | 0...10 Vdc input (control signal) |
| 11 | C  | 230 Vac                           |
| 11 | C  | 230 Vac (for linking)             |
| 14 | No | load; 0.1 ... 4A                  |

### Ordering guide:

| Model | Product number | Description                                  |
|-------|----------------|--|
| STS 1 | 1140040        | time proportional 230Vac 4A power controller |

Products fulfil the requirements of directives 2006/95/EC and 2004/108/EC and are in accordance with the standards EN60947, EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

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