

### Five-step transformer speed controller for the speed control of alternating current fans

- Can be used for controlling the power of all speed-controllable 1~ alternating current fans.

- Four secondary voltage in the gradations 110 / 140 / 170 / 190 and 230 V (full mains voltage) allow five fan performance levels.

- Multiple different fans can be connected to one control unit until the rated load capacity is reached.

#### Advantages

- Advantageous price/performance ratio.
- Low fault susceptibility.
- Low-loss and low-noise fan operation.
- Uncontrolled output for connection of indicator lights or shutter for MWS-, TSW- (from type TSW 1.5) and STSSW types.

#### Surface-mounted unit design

- Robust ISO casing, light grey, made of break-resistant plastic in protection category IP54. Types from TSW 10 and MWS 10 made of steel, lacquered twice, protection category IP54.
- Built-in operating switch for five speeds and activation/deactivation.
- Operation indication via indicator lights.
- Max. permissible ambient temperature +35 °C.
- Delivered ready for operation, simple connection to terminal board.

#### Integral transformer design

- Assembled terminal strip with eight output voltages on the secondary side.
- Mounting bracket for easy mounting.

#### Accessories

- Six-step cam switch Type STSSW for switch cabinet installation, with front attachment.

- For surface-mounted installation  
Max. load 0.35 A  
1~ alternating current, 230 V

- For surface-mounted installation  
1~ altern. current, 230 V

- For switch cabinet installation  
1~ alternating current, 230 V

- With motor protection circuit breaker  
1~ alternating current, 230 V  
For surface-mounted installation

### TSW 0.3



### Mini speed controller TSW 0.3

Compact five-step speed controller with on/off switch for surface installation in dry rooms. Plastic casing, white.

| TSW 0.3             | Ref. no. 03608      |
|---------------------|---------------------|
| Max. load           | 0.35 A              |
| Protection category | IP20                |
| Dim. mm             | W 160 x H 85 x D 60 |
| Wiring diagram no.  | 496.1               |

### TSW



### TSSW



### STSSW



### MWS



### Transformer speed control. TSW

For one or more alternating current fans.

| Type   | Ref. no. | I max.<br>A | Dim. mm |     |     |  |
|--|----------|-------------|---------|-----|-----|--|
|  |          |             | B       | H   | T   |  |
| TSW 1,5 <sup>1)</sup>                                    | 01495    | 1.5         | 115     | 205 | 100 |  |
| TSW 3 <sup>2)</sup>                                      | 01496    | 3.0         | 170     | 255 | 140 |  |
| TSW 5 <sup>2)</sup>                                      | 01497    | 5.0         | 170     | 255 | 140 |  |
| TSW 7,5 <sup>2)</sup>                                    | 01596    | 7.5         | 200     | 305 | 140 |  |
| TSW 10 <sup>2)</sup>                                     | 01498    | 10.0        | 300     | 325 | 185 |  |
| Wiring diagram no. <sup>1)</sup> 1494 <sup>2)</sup> 1495 |          |             |         |     |     |  |

### Speed contr. transformer TSSW

Built-in transformer with mounting bracket and eight output voltages on the secondary side.

| Type                    | Ref. no. | I max.<br>A | Dim. mm |     |     |  |
|-------------------------|----------|-------------|---------|-----|-----|--|
|                         |          |             | B       | H   | T   |  |
| TSSW 1,5                | 06520    | 1.5         | 75      | 83  | 65  |  |
| TSSW 3                  | 06521    | 3.0         | 84      | 90  | 87  |  |
| TSSW 5                  | 06522    | 5.0         | 108     | 112 | 90  |  |
| TSSW 10                 | 06523    | 10.0        | 135     | 135 | 128 |  |
| Wiring diagram no. 1493 |          |             |         |     |     |  |

### Five-step operating switch

STSSW Accessory for control transformer TSSW for 230 V, 1~ fans. For switch cabinet installation with front attachment and front plate. connections are recessed.

| STSSW              | Ref. no. 00234      |
|--------------------|---------------------|
| Voltage            | 230 V               |
| Max. load          | 2.2 kW              |
| Dim. mm            | W 48 x H 48 x D 102 |
| Wiring diagram no. | 1470                |

### Transformer speed controller MWS with motor protection circuit breaker

Five-step speed controller with integrated triggering device for 230 V, 1~ fans. For connection of external thermal contacts on terminal board. Connection of multiple fans possible up to the rated load. All fans deactivated when thermal contact reacts. With step switch and indicator lights. Recommissioning after fault or mains disconnection via "0" position.

| Type    | Ref. no. | I max.<br>A | Casing IP54<br>made of | Dim. mm |     |     | Wiring<br>diagram |
|---------|----------|-------------|------------------------|---------|-----|-----|-------------------|
|         |          |             |                        | W       | H   | D   |                   |
| MWS 1,5 | 01947    | 1.5         | Plastic                | 115     | 205 | 100 | 1488              |
| MWS 3   | 01948    | 3.0         | Plastic                | 170     | 255 | 140 | 1489              |
| MWS 5   | 01949    | 5.0         | Plastic                | 170     | 255 | 140 | 1489              |
| MWS 7,5 | 01950    | 7.5         | Plastic                | 200     | 305 | 140 | 1489              |
| MWS 10  | 01946    | 10.0        | Steel                  | 300     | 325 | 185 | 1489              |