Five-step transformer speed controller for the speed control of three-phase current fans

- Can be used for controlling the power of all speed-controllable 3~ three-phase current fans, in large steps for ϒ/△ switchable types.
- Four secondary voltage in the gradations 80 / (115)* / 140 / 200 / 280 and 400 V (full mains voltage) allow 5 fan performance levels.
  * internally switchable for voltage-controllable, explosion-proof rectangular duct and roof fans for TSD.
- 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 RDS-, TSD- and STSSD-types.

Surface-mounted unit design

- ▢ Robust ISO casing, light grey, made of break-resistant plastic, protection category IP54. Types from RDS 7 and TSD 5.5 made of steel, lacquered twice, protection category IP65.
- ▢ Built-in operating switch for five speeds and activation/deactivation.
- ▢ Operation indication via indicator lights.
- ▢ Dip impregnated autotransformer T 40 E, protection class II.
- ▢ Design complies with DIN VDE 0550.
- ▢ Max. permissible ambient temperature +40 °C.
- ▢ Delivered ready for operation, simple connection to terminal board.

Integral transformer design

- ▢ Two autotransformers in V circuit allow the function described above.
- ▢ Mounted terminal block for five voltage taps.
- ▢ Mounted angled rails for simple attachment.
- ▢ Dip impregnated autotransformer T 40 E.
- ▢ Contactors and wiring on site.

Accessories

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

For surface-mounted installation
3~ three-phase current, 400 V

TSD

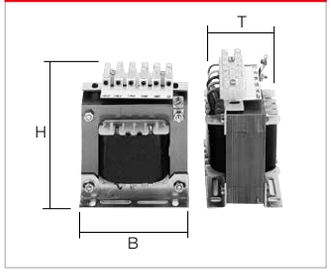
Transformer speed control. TSD
Like TSW, but for 3~ fans.

Type	Ref. no.	I max. A	Dim. mm B	H	T
TSD 0.8	01500	0.8	200	254	167
TSD 1.5	01501	1.5	200	254	167
TSD 3.0	01502	3.0	200	254	167
TSD 5.5	01503	5.5	300	300	150
TSD 7.0	01504	7.0	300	300	150
TSD 11.0	01513	11.0	300	400	200

Wiring diagram no. 436.2

For switch cabinet installation
3~ three-phase current, 400 V

TSSD

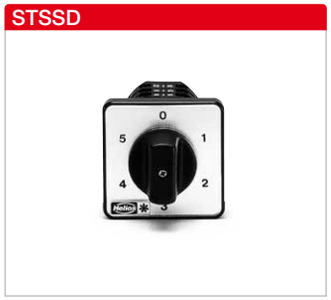


Speed contr. transformer TSSD
Like TSSW, but two integral transformers, connection in V circuit.

Type	Ref. no.	I max. A	Dim. mm B	H	T
TSSD 1	06516	1.0	84	95	80
TSSD 2	06517	2.0	96	104	92
TSSD 4	06518	4.0	105	112	98
TSSD 7	06519	7.0	120	122	134
TSSD 11	06515	11.0	150	146	158

Wiring diagram no. 267.1

STSSD



Five-step operating switch STSSD compatible with speed control transformer TSSD for 3~, 400 V fans. For switch cabinet installation with front attachment and front plate. Recessed connections.

STSSD	Ref. no. 00235
Voltage	AC 3, 400 V
Max. load	5.5 kW
Installation depth	110 mm, □ 46 mm
Wiring diagram no.	549.1

With motor protection circuit breaker
3~ three-phase current, 400 V
For surface-mounted installation

RDS

Transformer speed controller RDS with motor protection circuit breaker
Five-step speed controller with integrated thermal contact triggering device for 3~, 400 V three-phase current 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. A	Casing IP54 made of	Dim. mm B	H	T	Weight aprx. kg
RDS 1	01314	1.0	Plastic	236	316	128	8.9
RDS 2	01315	2.0	Plastic	236	316	128	11.2
RDS 4	01316	4.0	Plastic	236	316	128	13.0
RDS 7	01578	7.0	Steel	300	300	150	21.2
RDS 11	01332	11.0	Steel	300	400	200	37.9

Design according to VDE 0550, dip impregnated transformer in V circuit.
Max. perm. ambient temp. + 40 °C. Wiring diagram no. 139.