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 ⋎/△ switchable types.
- Four secondary voltage in the gradations 130 / 180 / 230 / 300 and 400 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 RDS-, TSD- and STSSD-types.

Surface-mounted unit design
- ▢ Robust casing, light grey, 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
- ▢ Two autotransformers in V circuit allow the function described above.
- ▢ Assembled terminal strip with eight output voltages on the secondary side.
- ▢ Mounting bracket for easy mounting.
- ▢ 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	300	325	185
TSD 1,5	01501	1.5	300	325	185
TSD 3 [3]	01502	3.0	300	425	185
TSD 5,5	01503	5.5	300	425	235
TSD 7	01504	7.0	300	425	235
TSD 11	01513	11.0	400	430	235

Wiring diagram no. 1491

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	108	112	90
TSSD 2	06517	2.0	108	112	100
TSSD 4	06518	4.0	120	122	120
TSSD 7	06519	7.0	150	144	140
TSSD 11	06515	11.0	150	144	163

Wiring diagram no. 1492

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
Dim. mm	140 mm, □ 48 mm
Wiring diagram no.	1471

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.

Type	Ref. no.	I max. A	Casing IP54 made of	Dim. mm B	H	T	Weight aprx. kg
RDS 1 [2]	01314	1.0	Steel	300	325	175	6.0
RDS 2	01315	2.0	Steel	300	325	185	13.0
RDS 4 [2]	01316	4.0	Steel	300	425	185	18.2
RDS 7 [2]	01578	7.0	Steel	300	425	235	27.2
RDS 11	01332	11.0	Steel	400	430	235	38.0

Max. perm. ambient temp. + 35 °C. Wiring diagram no. 1490.

3) Illustration and dimensions probably valid for deliveries from Q4/2025.