

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 γ/Δ switchable types.

- Four secondary voltage in the gradations 80 / (115)* / 140 / 200 / 280 and 400 V (full mains voltage) allow five 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 TSD and RDS made of steel, lacquered twice, protection category IP54.
- 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

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

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

TSD



TSSD



STSSD



RDS



Transformer speed control. TSD

Like TSW, but for 3~ fans.

Type	Ref. no.	I max. A	Dim. mm			
			B	H	T	
TSD 0,8³⁾	01500	0.8	300	325	185	
TSD 1,5	01501	1.5	300	325	185	
TSD 3,0⁴⁾	01502	3.0	300	425	185	
TSD 5,5	01503	5.5	300	425	235	
TSD 7,0	01504	7.0	300	425	235	
TSD 11,0⁴⁾	01513	11.0	400	430	235	

Wiring diagram no. 1491

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

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

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			Weight aprx. kg
				B	H	T	
RDS 1²⁾	01314	1.0	Steel	300	325	175	6.0
RDS 2	01315	2.0	Steel	300	325	185	13.0
RDS 4²⁾	01316	4.0	Steel	300	425	185	18.2
RDS 7²⁾	01578	7.0	Steel	300	425	235	27.2
RDS 11	01332	11.0	Steel	400	430	235	38.0

Design according to VDE 0550, dip impregnated transformer in V circuit.

Max. perm. ambient temp. +40 °C. Wiring diagram no. 1490.

2) Illustration and dimensions probably valid for deliveries from Q3/2024.

3) Illustration and dimensions probably valid for deliveries from Q2/2025.

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