

### ■ Five step transformer speed controller for speed controlling of 3 ph. alternating current fans

□ Suitable for speed control of all speed controllable 3 ph. alternating current fans, for Y/Δ reversible switching models in higher steps.

□ Four secondary voltages stepped in 80 / (115)\* / 140 / 200 / 280 and 400 V (full mains voltage) allow to control 5 fan speeds.

\* On TSD internally adjustable for voltage controllable, explosion proof in-duct and roof fans.

□ A number of different fans can be connected to one controller up to its nominal load.

### ■ Advantages

- Good cost effectiveness.
- Reliable.
- Low loss and low noise fan operation.
- RDS-, TSD- and STSSD models with full power output for connection with the signal lamp or shutter.

### ■ Design for surface mounting units

- Robust ISO casing, light grey, made of impact resistant polymer. Protection to IP 54. Models from RDS 7 and TSD 5.5 made of steel, double painted, protection to IP 65.
- Built-in operating switch for five speed steps and on/off function.
- Operation display via control lamp.
- Fully impregnated transformers T 40 E, protection class II.
- Conforms to DIN VDE 0550.
- Max. permitted ambient temperature +40 °C.
- Delivered ready for installation, simple connection to terminal block.

### ■ Design for built-in transformers

- Two transformers in V switching ensure the functions as described above.
- Built-up terminal block for five voltage outputs.
- Attached fixing brackets for simple fixture.
- Fully impregnated transformers T 40 E.
- Contactors and external wiring to be supplied onsite.

### □ Accessories

Five step switch STSSD for fuse board installation, with front board.

For surface mounting  
3 ph. alternating current, 400 V

For switchboard installation  
3 ph. alternating current, 400 V

With motor full protection facility  
3 ph. alternating current, 400 V  
For surface mounting

### Speed control transformer TSD

As TSW, but for 3 phase fans.

Type	Ref. no.	I max. A	Dim. in mm		
			W	H	D
TSD 0.8	1500	0.8	200	254	167
TSD 1.5	1501	1.5	200	254	167
TSD 3.0	1502	3.0	200	254	167
TSD 5.5	1503	5.5	300	300	150
TSD 7.0	1504	7.0	300	300	150
TSD 11.0	1513	11.0	300	400	200

Wiring diagram no. SS-436.2

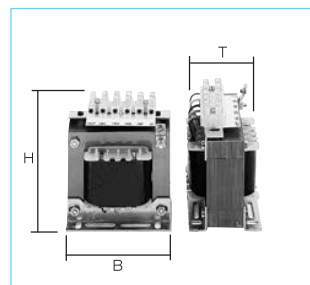


### Speed control transformer TSSD

As TSSW, but two transformers without casing, in V switching.

Type	Ref. no.	I max. A	Dim. in mm		
			W	H	D
TSSD 1	6516	1.0	84	95	80
TSSD 2	6517	2.0	96	104	92
TSSD 4	6518	4.0	105	112	98
TSSD 7	6519	7.0	120	122	134
TSSD 11	6515	11.0	150	146	158

Wiring diagram no. SS-267.1



### 5 step operating switch STSSD

Suitable for control of transformer TSSD for 400 V, 3 ph. fans. For switchboard installation with front fixing and front panel. Connections are deepened.

Type	Ref. no.	0235
Voltage	AC 3, 400 V	
max. load	5,5 kW	
Installation depth	110 mm, □ 46 mm	
Wiring diagram no.	SS-549.1	



### Transformer speed controller RDS with motor full protection facility

Five step speed controller with integrated thermal contact tripping unit for 400 V, 3 ph. alternating current fans.

To connect thermal contacts wired to the terminal box. A number of fans can be controlled up to the nominal load.

If a thermal contact trips all fans will be disconnected.

Step switch and control lamp included. Restarting via "0" position after interference or power cut off.

Type	Ref. no.	I max. A	Casing IP 54 made from	Dimensions in mm			Weight kg
				W	H	D	
RDS 1	1314	1.0	Polymer	236	316	128	6.0
RDS 2	1315	2.0	Polymer	236	316	128	9.7
RDS 4	1316	4.0	Polymer	236	316	128	10.5
RDS 7	1578	7.0	Steel	300	300	150	21.0
RDS 11	1332	11.0	Steel	300	400	200	26.0

Designed to comply with VDE 0550, fully impregnated transformers in V switching. Max. permitted ambient temperature +40 °C. Wiring diagram no. SS-139.

