



# RTR-1

## Remote switched 230 VAC transformer controller

The RTR-1 series of transformer fan speed controllers regulate the rotational speed of single-phase voltage controllable motors by varying the output voltage. They are equipped with an auto-transformer and control the speed manually in steps via a remote device, e.g. a switch or thermostat. The used technology provides a regulated output voltage with a perfect sinusoidal shape.

### Key features

- Wide power range
- Transformer taps directly connected to the terminal block
- Remote fan speed control via external device (e.g. Sentera's SMT-1-30-4C switch)

### Technical specifications

Supply voltage	230 VAC / 50–60 Hz		
Unregulated output	230 VAC, 2 A		
Enclosure	plastic (R-ABS, UL94-V0, grey RAL 7035)		
Protection standard	IP54 (according to EN 60529)		
Ambient conditions	Temperature	-20–35 °C	
	Rel. humidity	5–95 % rH (non-condensing)	

### Article codes

Article code	Rated max. current, [A]	Fuse rating
RTR-1-15L22	1,5	F: T-3,15 A-H
RTR-1-25L22	2,5	F: T-4,0A-H
RTR-1-35L22	3,5	F: T-5,0 A-H
RTR-1-50L22	5,0	F: T-8,0 A-H
RTR-1-75L22	7,5	(6*32 mm) F: T-12,5 A-H

### Voltage

Wires	Regulated output [VAC]						
	0	80*	110	140	170	190	230
L22 version**							
Unregulated output [VAC]							
L	230	230	230	230	230	230	230

\* Available but not connected.

\*\* Because more than 5 output voltages are available, it is possible to adjust the steps by changing the internal wiring.

### Area of use

- Fan speed control of voltage controllable motors (pumps and fans) in ventilation systems
- For indoor use only

### Standards

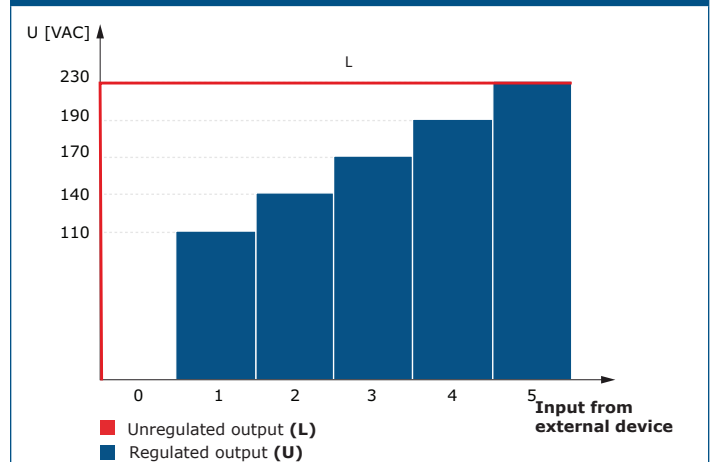
- Low Voltage Directive 2014/35/EC
- EMC Directive 2014/30/EC: EN 61326
- WEEE Directive 2012/19/EC
- RoHS Directive 2011/65/EC



### Wiring and connections

L	Power supply 230 VAC / 50–60 Hz
N	
L	Unregulated output, line
L1	Not connected
N	Unregulated output, neutral
U	Regulated output to motor, neutral
P	Regulated output to motor, line
	External switch, common
1	
2	
3	
4	External switch, positions
5	

### Operational diagram

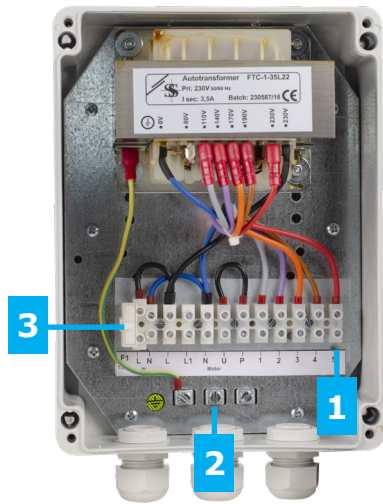




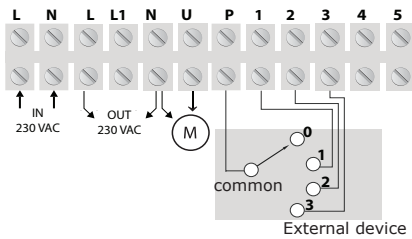
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### Legend



1 - Terminal blocks



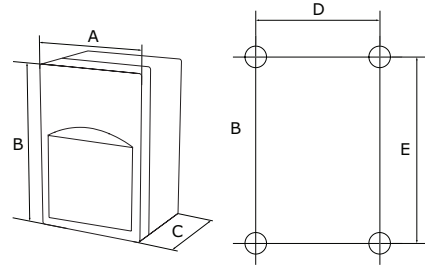
2 - Earth terminals



3 - Fuse



### Fixing and dimensions

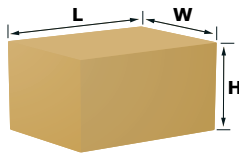


Article code	A [mm]	B [mm]	C [mm]	D [mm]	E [kg]
RTR-1-15L22	170	255	140	155	194
RTR-1-25L22	170	255	140	155	194
RTR-1-35L22	170	255	140	155	194
RTR-1-50L22	170	255	140	155	194
RTR-1-75L22	200	305	155	183	235

### Global trade item numbers (GTIN)

Article code	Packaging (Unit)
RTR-1-15L22	05401003011539
RTR-1-25L22	05401003011546
RTR-1-35L22	05401003011553
RTR-1-50L22	05401003011560
RTR-1-75L22	05401003011577

### Packaging



Article code	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Gross weight [kg]
RTR-1-15L22	Unit (1 pc.)	262	180	160	2,00	2,18
RTR-1-25L22	Unit (1 pc.)	262	180	160	3,50	3,68
RTR-1-35L22	Unit (1 pc.)	262	180	160	4,50	4,68
RTR-1-50L22	Unit (1 pc.)	262	180	160	5,20	5,38
RTR-1-75L22	Unit (1 pc.)	320	210	160	8,30	8,60