

STR-1

Standard 230 VAC transformer controller



The STR-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 auto-transformer(s) and control the speed manually in five steps. The technology used provides a regulated output voltage with a perfect sinusoidal shape. The controllers up to 7,5 A are available in plastic enclosure, while the models above 7,5 A are available in a metal enclosure.

Key features

- Wide power range: 0,8 A–20 A
- 5-step rotary switch for manual control plus off-position
- LED status indication

Technical specifications







Supply voltage	230 VAC / 50–60 Hz	
Max. motor current	20 A	
Maximum load	depends on the version	
Unregulated output	230 VAC	
Enclosure	plastic (R-ABS, UL94-V0, grey RAL 7035) or sheet steel (RAL 7035, polyester powder coating), depending on the product version	
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 (5*20 mm), [A]
STR-1-08L22	0,8	F: T-1,5 A-H
STR-1-10L10	1,0	F: T-1,25 A-H
STR-1-15L22	1,5	F: T-2,5 A-H
STR-1-22L22	2,2	F: T-3,15 A-H
STR-1-35L22	3,5	F: T-5,0 A-H
STR-1-50L22	5,0	F: T-8,0 A-H
STR-1-75L22	7,5	F: T-12,5 A-H
STR-1100L22	10,0	F: T-16,0 A-H
STR-1130L22	13,0	F: T-20,0 A-H
STR-1160L20	16,0	F: T-25,0 A-H
STR-1200L20	20,0	F: T-30,0 A-H

*The last 3 characters represent the voltage series. See table "Voltage series".

Voltage series

Knob position	0	-	1	2	3	4	5
Wires		-					
Regulated output [V]							
L10 version	0	-	80	110	140	170	230
L20 version**	0	80*	100	120	140	170	230
L22 version**	0	80*	110	140	170	190	230
Unregulated output [V]							
All voltage series, L1	0	230*	230	230	230	230	230

* Available but not connected.

** If more than 5 output voltages are available, it is possible to adjust the 5 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

Wiring and connections

STR-1-10L10	
L	Power supply, line (230 VAC / 50–60 Hz)
N	Power supply, neutral
Pe	Earth terminal
L1	Unregulated output, line
N	Unregulated output, neutral
N	Regulated output to motor, neutral
U	Regulated output to motor, line
Pe	Earth terminal
STR-1-08L22, STR-1-15L22 and STR-1-22L22	
Pe	Earth terminal
L	Power supply, line (230 VAC / 50–60 Hz)
N	Power supply, neutral
N1	Unregulated output, neutral
L1	Unregulated output, line
U	Regulated output to motor, line
N	Regulated output to motor, neutral
STR-1-35L22, STR-1-50L22, STR-1-75L22, STR-1100L22, STR-1130L22, STR-1160L20, STR-1200L20	
L	Power supply, line (230 VAC / 50–60 Hz)
N	Power supply, neutral
L1	Unregulated output, line
N	Regulated output to motor, neutral
U	Regulated output to motor, line
Pe	Earth terminal

