



# SC2-1

## Single phase 230 VAC two-speed transformer controller

The SC2-1 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-transformers and control the speed manually in five steps. The SC2-1 also feature contacts for remote start / stop. The controller makes it possible to select two optimal motor speeds and to switch these by a contact (e.g. day / night control). In this way energy savings can be realised. The controllers up to 7,5 A are available in a plastic enclosure, while the models above 7,5 A are available in a metal enclosure.

### Key features

- Wide power range: 1,5–13,0 A
- Each speed adjustable by 5-step rotary switch (knobs) plus off-position
- Normally closed contact for external clock (high / low switching)
- LED status indication
- Unregulated output 230 VAC
- Two speeds selectable by external contact (e.g. clock )

### Technical specifications

Supply voltage	230 VAC / 50–60 Hz	
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 rating [A]
SC2-1-15L25	1,5	(5*20 mm) T-2,5 A-H
SC2-1-25L25	2,5	(5*20 mm) T-4,0 A-H
SC2-1-35L25	3,5	(5*20 mm) T-5,0 A-H
SC2-1-50L25	5,0	(5*20 mm) T-8,0 A-H
SC2-1-75L25	7,5	(5*20 mm) T-12,5 A-H
SC2-1100L25	10,0	(6*32 mm) T-16,0 A-H
SC2-1130L25	13,0	(6*32 mm) T-20,0 A-H

### Voltage

Knob positions	0	-	1	2	3	4	5
<b>Regulated output [VAC]</b>							
<b>Speed 1 - high (left knob)*</b>	0	-	120	150	170	190	230
<b>Speed 2 - low (right knob)*</b>	0	-	80	100	120	150	170
<b>Unregulated output [VAC]</b>							
<b>L1</b>	0	230	230	230	230	230	230

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

### Standards

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



### Area of use

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

### Wiring and connections

L	Power supply, line (230 VAC / 50–60 Hz)
N	Neutral
L1	Unregulated output, line
N	Regulated output to motor, neutral
M or U	Regulated output to motor, line
CL	Input - Normally closed contact for external clock (for high/low switching)
Pe	Earth terminals

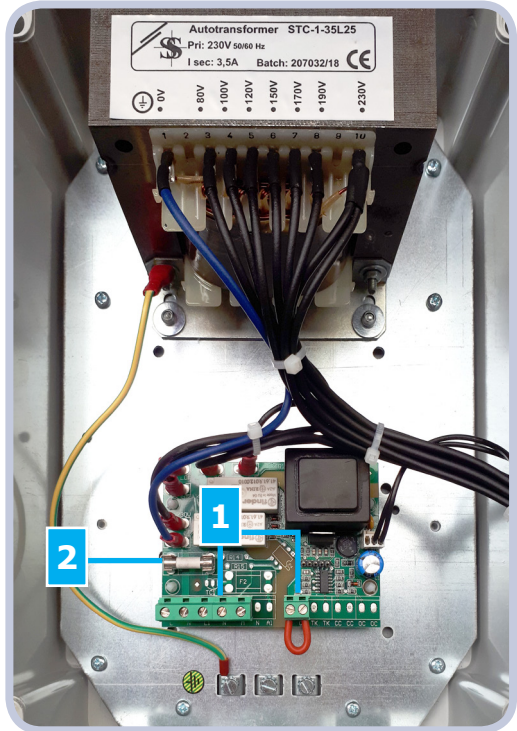
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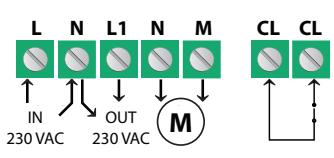


### Legend

SC2-1-35L25



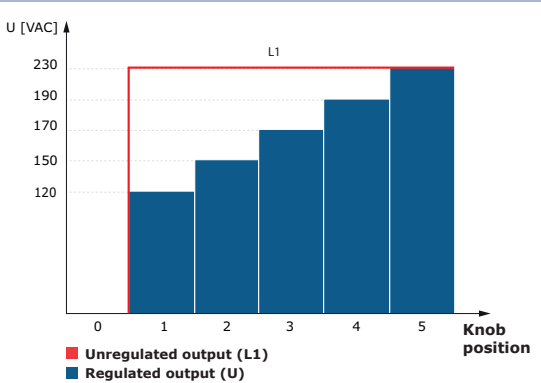
1 - Terminal block



2 - Fuse

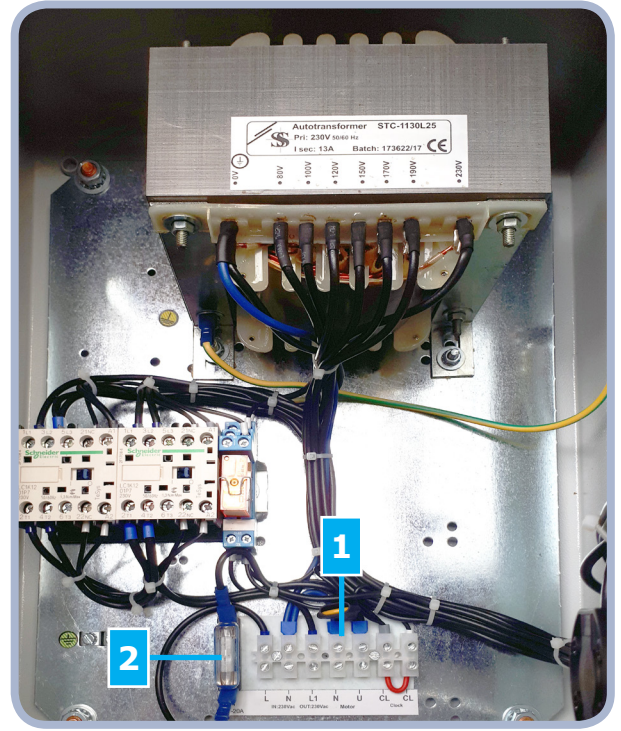
### Operational diagram 1

Speed 1 - High

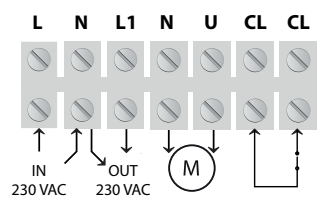


### Legend

SC2-1130L25



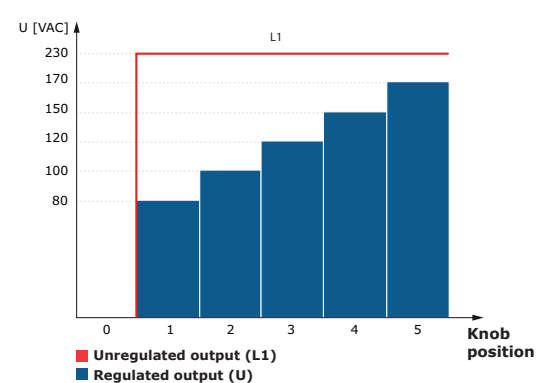
1 - Power terminal block



2 - Fuse

### Operational diagram 2

Speed 2 - Low

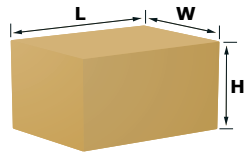




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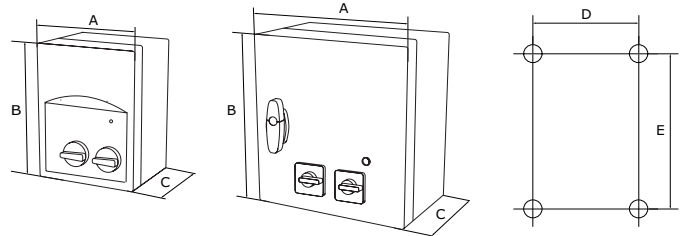
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## Packaging



Article code	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Gross weight [kg]
SC2-1-15L25	Unit (1 pc.)	216	130	110	3,90	4,20
SC2-1-25L25	Unit (1 pc.)	216	130	110	4,40	4,70
SC2-1-35L25	Unit (1 pc.)	262	180	160	5,40	5,70
SC2-1-50L25	Unit (1 pc.)	262	180	160	6,20	6,50
SC2-1-75L25	Unit (1 pc.)	320	210	160	8,20	8,60
SC2-1100L25	Unit (1 pc.)	340	310	210	15,20	15,70
SC2-1130L25	Unit (1 pc.)	340	310	210	17,60	18,10

## Fixing and dimensions



Article code	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	Enclosure
SC2-1-15L25	200	305	155	183	235	plastic (R-ABS, UL94-V0, grey RAL 7035)
SC2-1-25L25	200	305	155	183	235	
SC2-1-35L25	200	305	155	183	235	
SC2-1-50L25	200	305	155	183	235	
SC2-1-75L25	200	305	155	183	235	
SC2-1100L25	300	425	175	255	355	sheet steel (RAL7035, polyester powder coating)
SC2-1130L25	300	425	175	255	355	