

STRA4

3-phase 400 VAC transformer controller with TK and start / stop



The STRA4 series of transformer fan speed controllers regulate the rotational speed of three-phase voltage controllable motors by varying the output voltage. They are equipped with auto-transformers and control the speed manually in five steps. They feature TK monitoring for thermal motor protection, contacts for remote start / stop and a 230 VAC alarm output. The used technology provides a regulated output voltage with a perfect sinusoidal shape.

Key features

- Wide power range: 1,5 A—14,0 A
- 5-step rotary switch for manual control plus off-position
- TK monitoring for thermal motor protection
- Auto restart after power failure
- 230 VAC alarm output
- LED status indication
- 2 start/stop contacts for remote ON / OFF switching

Technical specifications

Supply voltage	3x 400 VAC / 50—60 Hz	
Max. motor current (Imax)	1,5—14 A, depending on the product version	
Unregulated output	230 VAC, 2 A	
Enclosure	sheet steel (RAL 7035, polyester powder coating)	
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]
STRA4-15L40	1,5
STRA4-25L40	2,5
STRA4-40L40	4,0
STRA4-60L40	6,0
STRA4-80L40	8,0
STRA4110L40	11,0
STRA4140L50	14,0

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

Voltage series

Knob position	0	-	1	2	3	4	5
	Regulated output [VAC]						
L40 version	0	-	130	180	230	300	400
L50 version**	0	130*	170	220	260	300	400
Unregulated output [VAC]							
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

- Speed control of voltage controllable 400 VAC three-phase motors (pumps and fans)
- For indoor use only

Legend

1 - Power terminal block

R	S	T	N	L1	U	V	W
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3 x 400 Vac 3ph + N 230 Vac M

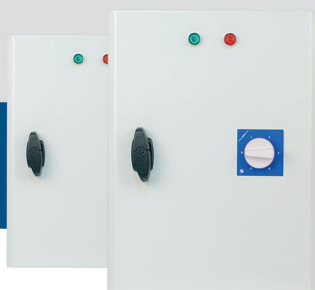
2 - Control terminal block

N	AL	TK	TK	NC	NC	NO	NO
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3 - Earth terminals

STRA4

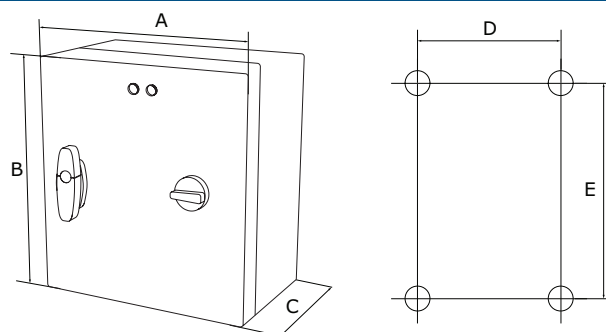
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Wiring and connections

Pe	Earth terminals
R	
S	Power supply 3*400 VAC / 50–60 Hz
T	
N	Neutral
L1	Unregulated output, phase (230 VAC / 50–60 Hz / 2 A)
U	
V	Regulated output to motor
W	
N	
AL	Alarm output (230 VAC / 1 A)
TK	
TK	Input - TK monitoring for thermal motor protection
NC	
NC	Input - normally closed contact for remote ON / OFF switching
NO	
NO	Input - normally open contact for remote ON / OFF switching

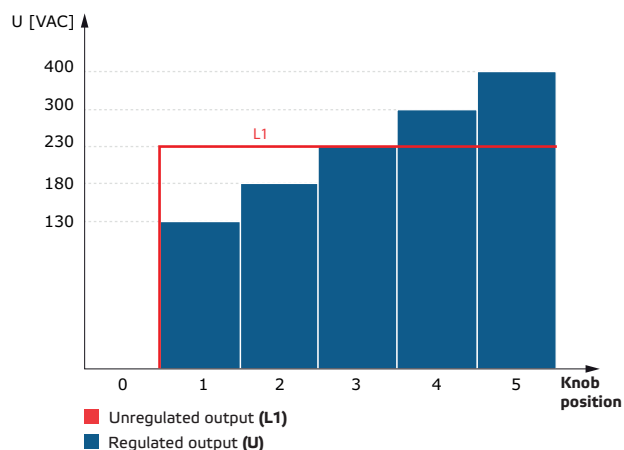
Fixing and dimensions



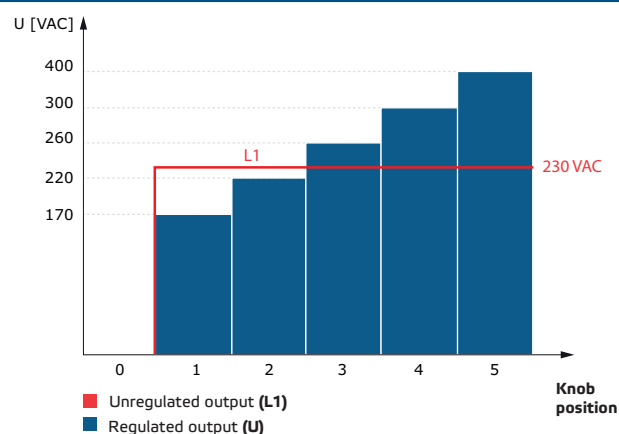
Article code	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
STRA4-15L40	300	325	185	255	255
STRA4-25L40	300	325	185	255	255
STRA4-40L40	300	425	185	255	355
STRA4-60L40	300	425	235	255	355
STRA4-80L40	300	425	235	255	355
STRA4110L40	400	430	235	355	355
STRA4140L50	400	430	235	355	355

Operational diagrams

L40 series



L50 series

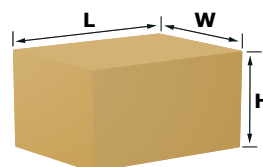


Standards

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



Packaging



Article code	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Gross weight [kg]
STRA4-15L40	Unit (1 pc.)	340	310	210	11,21	11,67
STRA4-25L40	Unit (1 pc.)	340	310	210	12,59	13,05
STRA4-40L40	Unit (1 pc.)	430	310	205	18,12	18,65
STRA4-60L40	Unit (1 pc.)	430	310	255	21,66	22,25
STRA4-80L40	Unit (1 pc.)	430	310	255	26,91	27,50
STRA4110L40	Unit (1 pc.)	455	410	255	36,67	37,41
STRA4140L50	Unit (1 pc.)	455	410	255	42,05	42,80