

## Airius Speed Controller Smart 5 AMP

Wall Mounted Speed Control Wiring STVS1 controller for Models 10, 15, 25, 45, 50 & 60 - 230v 50/60Hz.

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# AIRIUS STVS1 SPEED CONTROLLER -Ideal for BMS and Fire System Integration

The STVS1 series of transformer fan speed controllers regulate the rotational speed of single-phase voltage controllable motors in five steps by varying the output voltage according to an 0—10 VDC analogue input signal. They are equipped with autotransformer(s) and feature TK monitoring for thermal motor protection.

AIRIUS MODEL	10	15	25	45/PS-4	45/PS-2	50/PS-4	60/PS-4
NO. OF UNITS	67	53	25	20	6	11	6



	Key Features
	Analogue input signal (0—10 VDC) galvanically isolated
F	TK monitoring for thermal motor protection
	5 switching levels according to the input signal
	LED status indication

· +12 VDC output (e.g. as supply for MTP-X10K pe	potentiometer from Sentera)
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Technical Specificatio					
Supply Voltage	230 VAC / 50—60 Hz				
Control signal input	0—10 VDC				
Output	12 VDC / Imax 50 mA				
Unregulated output	230 VAC (max. 2 A)				
Switching levels	Up	2; 4; 6; 8; 9,5 VDC			
Switching levels	Down	Up level — 0,2 VDC			
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)				
A	Temperature	-20—35 C			
Ambient conditions	Rel. humidity	5—95 % rH (non-condensing)			

		Article Codes
Article code	Rated max. current [A]	Fuse [A]
STVS1-50L22	5,0	(5*20 mm) T-8,0 A-H

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

						Vol	tage
0—10 VDC orexternal potentiometerpositions (MTVor MTP)*	0	-	1	2	3	4	5
Wires		-	_			_	
Regulated output [VAC]							
Voltages***	0	80**	110	140	170	190	230
Unregulated output [VAC]							
L1	0	230	230	230	230	230	230

<sup>\*</sup> See the operational diagram on the next page for the corresponding voltages.

\*\* 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.

	Wiring and connections			
L	Power supply, phase (230 VAC / 50—60 Hz)			
Ν	Power supply, neutral			
Pe	Earth terminal			
Pe	Earth terminal			
L1	Unregulated output, line			
N1	Unregulated output, neutral			
N1	Regulated output to motor, neutral			
U	Regulated output to motor, line			
TK	Input - TK monitoring for thermal motor protection			
TK	input 1 K monitoring for the mai motor protection			
0V	Ground			
+12V*	Output 12 VDC / Imax 50 mA			
+V*	Digital output 12 VDC / Imax 50 mA (0 VDC = TK fault; 12 VDC = normal operation)			
V/C	Input U: 0—10 VDC			

<sup>\*</sup>Note: The total output current for both outputs (+12V and +V) must not exceed 100 mA!

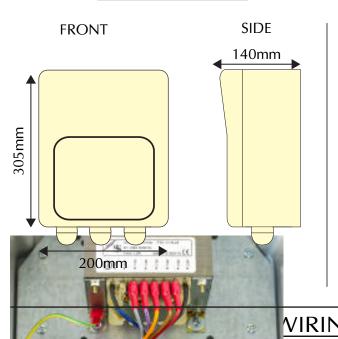


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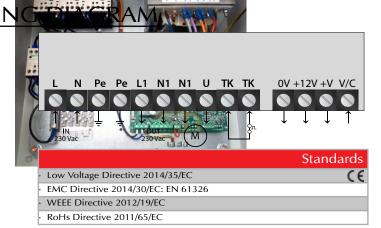


## **DIMENSIONS**



(FULLY ASSEMBLED)

PLUGS FOR WALL MOUNTING



controllers are to be mounted on a smooth surface. Connect voltage supply, motor(s) and earth nown in the scheme with cables of the proper diameter. On the mains side, a safety switch recommend pre-fuses has to be installed.

#### sport and Stock Keeping

id shocks and extreme conditions, stock in original packaging.

years from delivery date against defects in manufacturing. Any modifications or alterations to product relieve the manufacturer of all responsibility. The manufacturer bears no responsibility any misprints or mistakes in this data, and modifications or improvements to the product can be made at any time after date of publication.

#### Maintenance

In normal conditions the controllers are maintenance-free. If soiled clean with dry or dampish cloth. In case of heavy pollution clean with a non-aggressive product. In these circumstances the controller should be disconnected from the mains. Pay attention that no fluids enter the controller. Only reconnect the controller to the mains when it is completely dry.

#### Motor Protection

It is always recommended to install a proper motor protection device.

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