

Speed controller RS-...-TA



■ Applications

Applied in ventilation systems for switching ON/OFF and speed controlling of single phase power-controlled motors. Several fans can be operated synchronously in case their total consumption current does not exceed the maximum controller current.

■ Design and control

The controller casing is made of flame-retardant thermoplastic and fitted with a ON/OFF knob. Output power is controlled from 30 to 100 % with the control signal 0...10V or 4-20mA over the range set during the controller adjustment. The control signal type 0...10V or 4-20mA is selected with SW2 control switch located in the controller casing. Control can be performed by means of remote control panel, i.e., R-1/010

controller. The minimum speed is set by means of the potentiometer at the PCB. The controller is equipped with an extra 230 V terminal for connection and control of such external equipment as actuator driven air dampers.

■ Protection

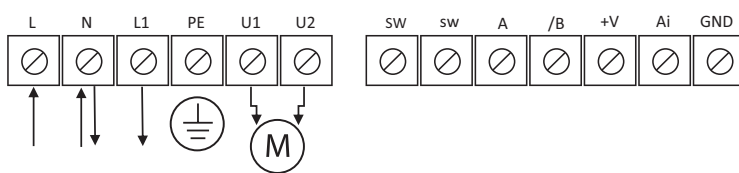
Input circuit of the speed controller has a thermal fuse for overload protection.

■ Mounting

The controller is designed for indoor mounting. Installation shall be performed with respect to the free air circulation for inner circuit cooling. The controller is for vertical installation. Do not install the controller above the heaters and in bad air convection areas.

Technical data

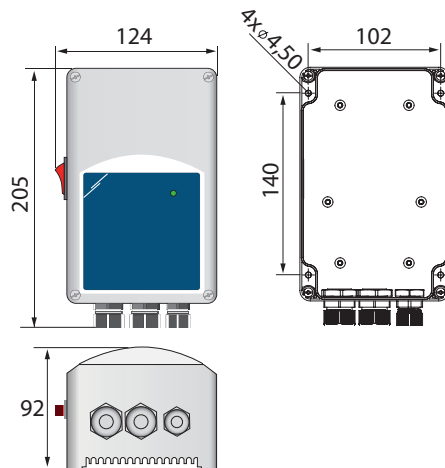
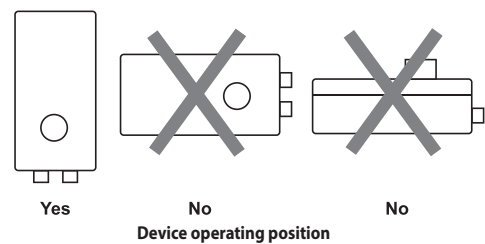
	RS-3,0-TA	RS-6,0-TA	RS-10,0-TA
Voltage [V/50(60) Hz]	1~230	1~230	1~230
Minimum current [A]	0.3	0.5	1.0
Maximum current [A]	3.0	6.0	10.0
Overall dimensions LxWxH [mm]	205x124x92	180x127x95	180x127x95
Maximum ambient temperature [°C]	-20...+35	-20...+35	-20...+35
Protection rating	IP54	IP54	IP54
Weight [kg]	0.84	1.0	1.08



Wiring diagram and connections

L	Power (230 VAC/50-60 Hz)
N	Neutral
PE	Ground terminal
L1	Non-adjustable output, (230 V/max. 2 A)
U1, U2	Adjustable motor output
SW	Remote switch/timer switch
A	Modbus RTU (RS485), signal A
/B	Modbus RTU (RS485) signal /B
+V	Power output +12 VDC/1 mA
Ai	Analogue input 0-10 V/0-20 mA (10-0 V/20-0 mA)/ Logic input (timer function)
GND	Grounding

Controller wiring diagram



Overall dimensions [mm]