



SPEED CONTROL SOLUTIONS FOR HVAC

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Electronic speed controllers



Electric speed controllers are applicable for speed adjustment of single phase voltage controllable asynchronous electric motors. Minimum speed can be adjusted using potentiometer.

These devices for continuous speed control of one or more voltage-controlled single phase motors/fans have a knob installed at the front. This knob sets the desired speed.

Speed controllers start with maximum output voltage for safe start-up of the fan. Versions are from 1A to 10 A.

A number of different fans can be controlled with one controller within 85% of the controller's maximum load.

Fast current and temperature fuses complete user security.

All models have an extra (not regulated) 230V output.

	Supply	Range	Control Potentiometer	Surface mounting	Inset mounting	DIN rail	LED on/off	
VSR	230 V Ac	< 2,5 A	✓	✓	✓	-	-	
VSR	230 V Ac	< 4.0 A	✓	✓	✓	-	-	
PSR	230 V Ac	< 2,5 A	✓	✓	✓	-	✓	
RSR	230 V Ac	< 2.5 A	✓	✓	-	✓	-	
FSR	230 V Ac	< 10 A	✓	✓	-	-	-	

VSR

Electronic Speed controller



SPECIFICATIONS

Application:

Electronic speed controllers are based on the principle of phase angle control by means of triacs. They are applicable for speed adjustment of single phase voltage controllable asynchronous electric motors. Minimum speed can be adjusted using potentiometer.

Technical data:

Voltage supply: 230 Vac 50Hz

Control type: Potentiometer

Infinitely variable speed control

Switch: On/Off inbuilt with potentiometer

Minimum speed: Internally adjustable

Regulation: Soft start min. to max.
Hard start max. to min.

Protection: fast current fuse

Max. ambient temperature up to 35°C

Noise level reduction

Radio interference protected

Compliant with CE requirements: CE standard conformity

Radio interference suppression EN 61000-6-3

Interference immunity EN 61000-6-2

Enclosure and Mounting:

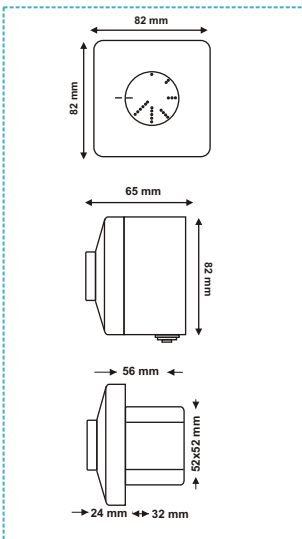
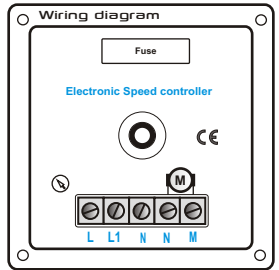
Flush or surface

Connection:

According to wiring diagram

Type	Order code	Current AC
VSR10	100110	1.0A
VSR15	100115	1.5A
VSR20	100120	2.0A
VSR25	100125	2.5A
VSR40	100140	4.0A

Dimensions: 82*82*65
Weight: 205 - 360 gr

Connection: Terminal block
L - Supply 230V 50Hz
L1 - Not regulated output 230V
N - Supply neutral
N - Supply neutral
M - Regulated output live

IP44
54

35°C
Max

Color
White

CE

PSR

Electronic Speed controller



SPECIFICATIONS

Application:

Electronic speed controllers are based on the principle of phase angle control by means of triacs. They are applicable for speed adjustment of single phase voltage controllable asynchronous electric motors. Minimum speed can be adjusted using potentiometer.

Technical data:

Voltage supply: 230 Vac 50Hz

Control type: Potentiometer

Infinitely variable speed control

Switch: PUSH On/Off inbuilt with potentiometer

Minimum speed: Internally adjustable

Regulation: Soft start min. to max.

Hard start max. to min.

Protection: fast current fuse

Light: LED indicator

Max. ambient temperature up to 35°C

Noise level reduction

Radio interference protected

Compliant with CE requirements:

Radio interference suppression EN 61000-6-3

Interference immunity EN 61000-6-2

Enclosure and Mounting:

Flush or surface

Connection:

According to wiring diagram

Type	Order code	Current AC
PSR10	110 110	1.0A
PSR15	110 115	1.5A
PSR20	110 120	2.0A
PSR25	110 125	2.5A

Dimensions: 82*82*65
Weight: 205 - 360 gr

Connection: Terminal block
L - Supply 230V 50Hz
L1 - Not regulated output 230V
N - Supply neutral
N - Supply neutral
M - Regulated output live

RSR

Electronic Speed controller



SPECIFICATIONS

Application:

Electronic speed controllers are based on the principle of phase angle control by means of triacs. They are applicable for speed adjustment of single phase voltage controllable asynchronous electric motors. Minimum speed can be adjusted using potentiometer.

Technical data:

Voltage supply: 230 Vac 50Hz

Control type: Potentiometer

Infinitely variable speed control

Switch: On/Off inbuilt with potentiometer

Minimum speed: Internally adjustable

Regulation: Soft start min. to max.

Hard start max. to min.

Protection: fast current fuse

Light: LED indicator

Max. ambient temperature up to 35°C

Noise level reduction

Radio interference protected

Compliant with CE requirements:

Radio interference suppression EN 61000-6-3

Interference immunity EN 61000-6-2

Enclosure and Mounting:

DIN rail

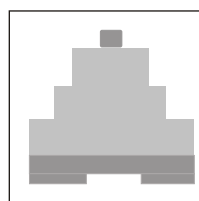
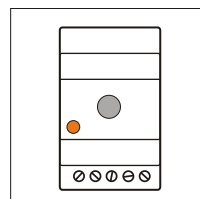
Connection:

According to wiring diagram

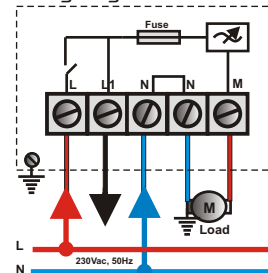
Type	Order code	Current AC
RSR10	120 110	1.0A
RSR15	120 115	1.5A
RSR20	120 120	2.0A
RSR25	120 125	2.5A

Dimensions: 90*53*70mm

Weight: 205 - 260 gr



Wiring diagram:



Connection: Terminal block

L - Supply 230V 50Hz

L1 - Not regulated output 230V

N - Supply neutral

N - Supply neutral

M - Regulated output live



FSR 10

Electronic Speed controller

SPECIFICATIONS

Application:

These electronic speed controllers provide control of an economic means of speed Regulation for voltage controllable single-phase AC motors.

There are two working modes:

1. 'Hard' start: The motor will always start (or restart) at max. speed for 8-10 seconds, after that the motor speed automatically follows the potentiometer position.
2. Normal start: the motor starts according to the potentiometer position.

Technical data:

Voltage supply: 230 Vac 50Hz

Control type: Potentiometer
Infinitely variable speed control

Switch: On/Off

Minimum speed: Internally adjustable via trimmer potentiometer

Protection: fast current fuse

Max. Ambient temperature up to 35°C

Noise level reduction.

Radio interference protected.

Indicator light: Led

Compliant with CE requirements:

Radio interference suppression EN 61000-6-3

Interference immunity EN 61000-6-2

Enclosure and Mounting:

ABS RAL 3075; surface

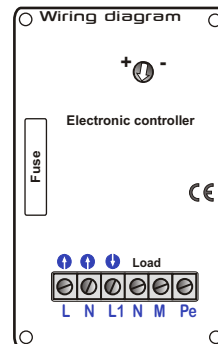
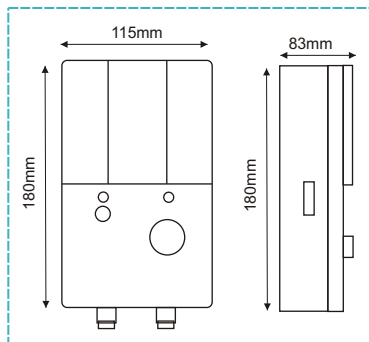
Connection:

According to wiring diagram



Type	Order code	Current AC
FSR40	150 140	4.0A
FSR60	150 160	6.0A
FSR100	150 100	10.0A

Dimensions: 180*115*65
Weight: 400 - 860 gr



L-N - Supply live 230V 50 Hz.
L1-N - 230 Vac not regulated output.
M-N - Regulated output live, motor.
F - Fuse.



Potentiometer and switches



A speed setting can be made through energetic recovery to the input of the fan/controller by connecting the potentiometer to a supply voltage(10 V) provided by an EC fan or controller.

Alternatively, a setpoint (external setpoint) can be preset through the potentiometer.

	Supply	Output range	Output load	Step less	Step control	Inset mount Surface mount		Remarks
EC-1S	3-12 VDC	0-10 VDC	< 1 mA	✓	-	✓	✓	
EC-2S	3-15 VDC	0-10 VDC	< 1 mA	✓	-	✓	✓	Min & max output configurable
EC—MT	230 VAC	0-10 VDC	< 1 k	✓	-	✓	✓	Min & max output configurable
EC-NTC	3-12VDC	0-10 VDC	<1 mA	✓	-	✓	✓	Min & max output configurable
EC-PWM	230 VAC	0-10 VDC/0-20mA/ PWM	max. 20 mA	✓	-	✓	✓	
SW3-3	230 V ADC	230 V AC	< 3A	-	3 steps	✓	✓	Output selectable via switch
SW3-4	230 V ADC	230 V AC	< 3A	-	3 steps + off	✓	✓	Output selectable via switch
SW3-20	230 V ADC	230 V AC	< 16A	-	3 steps + off	✓	✓	Output selectable via switch

EC-1S 10

Electronic Speed controller

Potentiometer 10 kOhm

SPECIFICATIONS

Application:

Speed control where a DC control signal required of fans with EC motor.
A speed setting can be made through energetic recovery to the input of the fan/controller by connecting the potentiometer.

Technical data:

Voltage supply: 10Vdc
Setting range: 0...10KOhm
Output voltage: 0...10Vdc
Switch rating: 4A / 250Vac 10A/12Vdc
Protection class: 44/54 IP
Max. Ambient temperature up to 35°C

Compliant with CE requirements:

Radio interference suppression EN 61000-6-3
Interference immunity EN 61000-6-2

Enclosure and Mounting:

Flush or surface

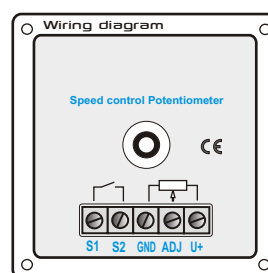
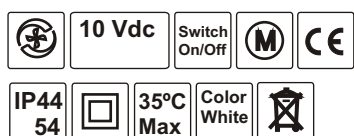
Connection:

According to wiring diagram

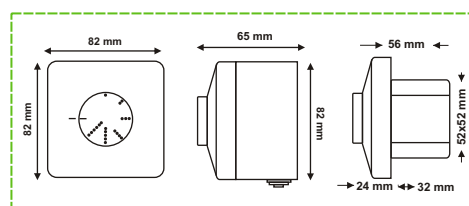


Type	Order code	Voltage DC
EC-1S 10	200 010	10 V

Dimensions: 82*82*65
Weight: 165 gr



S1-S2 Switch: max.4A/250Vac.
Control signal: ADJ - GND 0-10V
U+ supply: +10V



EC-2S 10

Electronic Speed controller

Potentiometer with two speed min. - max.

SPECIFICATIONS

Application:

The Controller designed for direct control or nominal value present of EC-fans with potentiometer input or any application where a DC control signal required. For the manual control of speed and air flow of electrical fans with 0-15V output. A supply voltage between 3 and 15 Vdc is required to provide an infinitely variable output signal between two internally selectable positions: V min and V max Adjustable. Additionally equipped with an enabling switch.

Technical data:

Voltage supply: 3-15Vdc

Output voltage: 0...10Vdc

Setting of min output value /V min/ 0-7Vdc

Setting of max output value /Vmax/ 3-10Vdc

output setting by internal trimmer

Load $\geq 2 \text{ k}\Omega$

Switch rating: 4A / 250Vac 10A/12Vdc

Protection class: IP 44 flush ; IP54 surface mounting

Enclosure internal: polyamide according to IEC 60335

Max. ambient temperature up to 35°C

CE standard according European standard:

Radio interference suppression accor. EN61000-6-3

Interference immunity according EN 61000-6-2

RoHS compliant

Enclosure and Mounting:

Flush or surface

Connection:

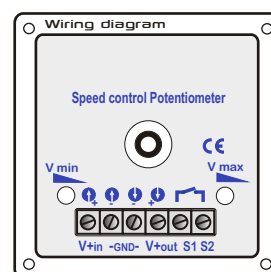
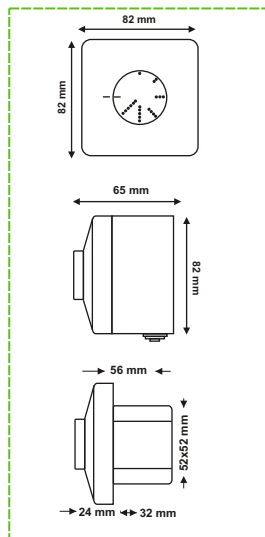
According wiring diagram



If voltage supply of device is:
 Supply: 5 Vdc or supply: 10Vdc or Supply: 15 Vdc
 Output: 0.5-5 Vdc output : 1-10Vdc Output: 1.5-15 Vdc
 Vmin: 0.5 - 3.5 Vdc Vmin: 1-7 Vdc Vmin: 1.5 - 10.5 Vdc
 Vmax: 1.5 - 5 Vdc Vmax: 3-10 Vdc Vmax: 4.5 - 15 Vdc

Type	Order code	Voltage DC
EC-2S 10	200 015	15 V

Dimensions: 82*82*65
 Weight: 165 gr



V+ in: supply voltage 3-15V dc
 V+ out: output voltage 3-15 Vdc/RL $\geq 2 \text{ k}\Omega$
 V min: adjustment trimmer min speed
 V max: adjustment trimmer max speed
 S1-S2: Switch



EC-NTC

Electronic Speed controller

Potentiometer 10 kOhm with temperature sensor

SPECIFICATIONS

Application:

Speed control where a DC control signal required of fans with EC motor.
A speed setting can be made through energetic recovery to the input of the fan/controller by connecting the potentiometer. It has a built in temperature sensor NTC 10K

Technical data:

Voltage supply: 10Vdc
Setting range: 0...10KOhm
Output voltage: 0...10Vdc
Switch rating: 4A / 250Vac 10A/12Vdc
Protection class: 44/54 IP
Max. Ambient temperature up to 35°C

Compliant with CE requirements:

Radio interference suppression EN 61000-6-3
Interference immunity EN 61000-6-2

Enclosure and Mounting:

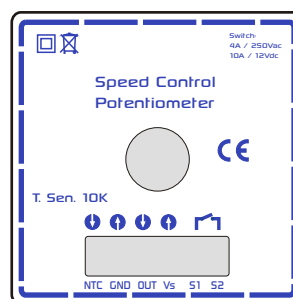
Flush or surface

Connection:



Type	Order code	Voltage DC
EC-NTC	200 011	10 V

Dimensions: 82*82*65
Weight: 165 gr



NTC-Temperature sensor

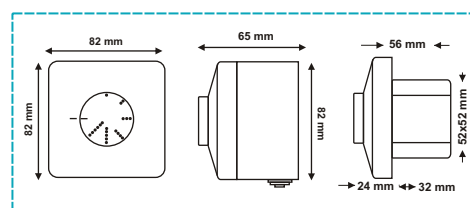
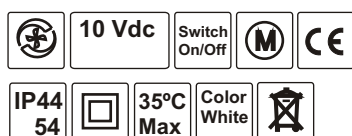
GND-Ground

Out- output

U+ supply: +10V

S1-S2 Switch: max.4A/250Vac.

Dry contact for remote ON/OFF



EC-MT

Electronic Speed controller

Potentiometer 10 kOhm with temperature sensor

SPECIFICATIONS

Application:

The EC-MT potentiometer is developed to control equipment that needs a 0-10 VDC control signal. The potentiometer needs a supply of 230 VAC, and gives a stepless output signal 0-10 VDC.

Technical data:

Supply: 230Vac
 Setting range: 0...10KOhm
 Output voltage: 0...10Vdc
 Load: min. 1 KOhm
 Load/Switch rating: 4A / 250Vac 10A/12Vdc
 Protection class: 44/54 IP
 Max. Ambient temperature up to 35°C

Compliant with CE requirements:

Radio interference suppression EN 61000-6-3
 Interference immunity EN 61000-6-2

Enclosure and Mounting:

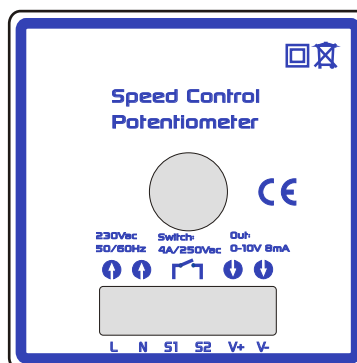
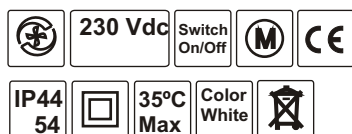
Flush or surface

Connection:

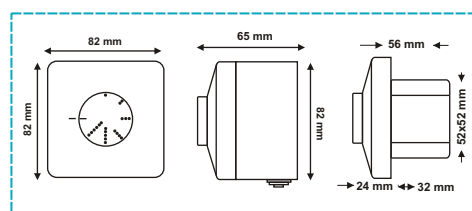


Type	Order code	Voltage DC
EC-MT	200 110	10 V

Dimensions: 82*82*65
 Weight: 205 gr



Supply: 230Vac 50/60Hz
 Output 0 +10V
 S1-S2 Switch: max. 4A/250Vac.
 Dry contact for remote ON/OFF



FR-SW4-3

Step Speed Switch



SPECIFICATIONS

Application:

Operational speed step switch can adjust manually the speed of electrical motors /fans/. Several motors can be connected maximum current has not been exceeded.

Technical data:

Voltage supply: 230V 50/60Hz
 Switch rating: 10A /3 A/ 250V 50/60Hz
 Switch: on -off
 Control signal: step switch
 Protection class: 44/54 IP
 Max. ambient temperature up to 35°C

CE certificate:

Radio interference suppression accor. EN61000-6-3
 Interference immunity according EN 61000-6-2

Enclosure and Mounting:

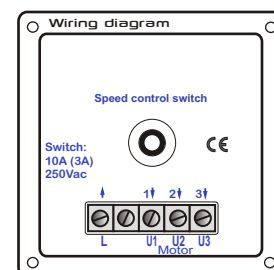
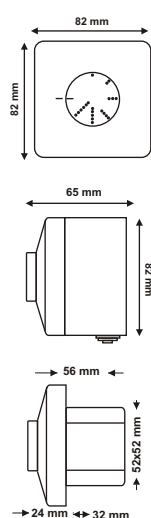
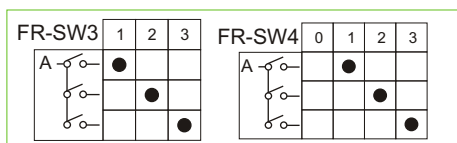
Flush or surface

Connection:

According wiring diagram

Type	Order code	Current AC
FR-SW3	210 003	10A(3A)
FR-SW4	210 004	10A(3A)

Dimensions: 82*82*65
 Weight: 205 gr



Connection: Terminal block
 L - Supply 230V 50Hz
 U1 - Output
 U2 - Output
 U3 - Output



FR-SW4-20

Step Speed Switch



SPECIFICATIONS

Application:

Operational speed step switch can adjust manually the speed of electrical motors /fans/. Several motors can be connected maximum current has not been exceeded.

Technical data:

Voltage supply: 230V 50/60Hz
 Switch rating: 16A 240V 50/60Hz
 Switch: on -off
 Control signal: step switch
 Protection class: 44 IP
 Max. ambient temperature up to 35°C

CE certificate:

Radio interference suppression accor. EN61000-6-3
 Interference immunity according EN 61000-6-2

Enclosure and Mounting:

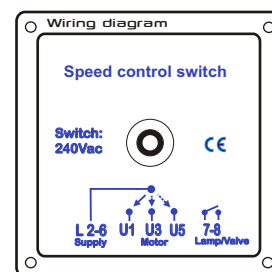
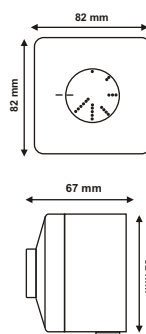
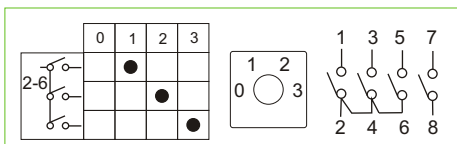
Flush or surface

Connection:

According wiring diagram

Type	Order code	Current AC
FR-SW4-8	210 008	8A
FR-SW4-12	210012	16A

Dimensions: 82*82*67
 Weight: 225 gr



Connection: Terminals
 L2-6 - Supply 230V 50Hz
 U1 - Output
 U3 - Output
 U5 - Output
 7-8 - Lamp/Valve



Transformer speed controllers



Transformer-based controllers

Description

Transformer speed controllers are based on principle of voltage control with auto-transformers. They are applicable to voltage controllable motors to control the rotational speed. For simple and cost-effective speed control. The selection of output voltage is done manually by a 5-step switch. Several fans can be connected to controllers. However, the total current of all motors must not exceed the nominal current of the controllers.

Output voltage:

1~ units:

0 - 80 - 105 - 130 - 160 - 230 V

0 - 100 - 130 - 160 - 190 - 230V

0 - 120 - 140 - 170 - 200 - 230V

3~ units:

0 - 95 - 145 - 200 - 280 - 400 V

0 - 120 - 160 - 220 - 290 - 400V

0 - 140 - 180 - 260 - 300 - 400V

	Supply	Switch	Output	Thermal contacts	230V No regulated	LED Indicator	Surface mounting
RE-1	230V Ac	5-step	1.5-11A	-	✓	✓	✓
RES-1	230 V Ac	5-step	3.5-11A	✓	✓	✓	✓
RT-4	400 V Ac	5-step	1.5-12A	-	✓	✓	✓
RTS-4	400 V Ac	5-step	1.5-12A	✓	✓	✓	✓
TMS	230V Ac	5-step	1-1.5A	-	✓	✓	✓
TMR	230 V Ac	5-step	1-1.5A	-	✓	✓	✓



TMS

Transformer Speed controller



SPECIFICATIONS

Application:

Single phase transformer speed controllers are based on the principle of voltage control with auto-transformers. They are applicable to voltage-controllable motors (230 V, 50/60 Hz) to control the speed (of fans, pumps, etc.). A number of fans can be controlled up to the controller's maximum load.

Technical data:

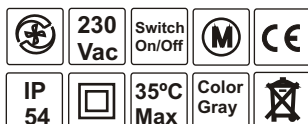
Voltage supply: 230Vac 50/60Hz
 Control signal: 5 step switch
 Output voltage: 0-120-150-170-200-230V
 Switch rating: 3A
 Max. ambient temperature up to 35°C
 Indicator light: Led
 Compliant with CE requirements:
 Radio interference suppression EN 61000-6-3
 Interference immunity EN 61000-6-2

Enclosure and Mounting:
 surface

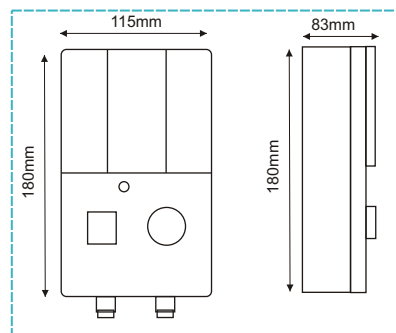
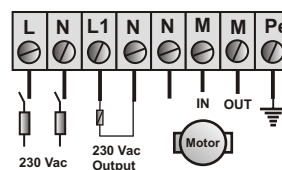
Connection:
 According to wiring diagram

Type	Order code	Current AC
TMS 08	500 108	0,8 A
TMS 10	500 110	1,0 A
TMS 15	500 115	1,5 A

Dimensions: 180*115*95
 Weight: 700 gr



Wiring diagram



TMR

Transformer Speed controller



SPECIFICATIONS

Application:

Single phase transformer speed controllers are based on the principle of voltage control with auto-transformers. This Speed controller with transformer and flow reverser.

Controls the motor speed (Hz) to control the speed (of fans, pumps, etc.) thereby reducing the air flow and noise of the fan. A number of fans can be controlled up to the controller's maximum load.

Technical data:

Voltage supply: 230Vac 50/60Hz

Control signal: 5 step switch

Output voltage: 0-120-150-170-200-230V

Switch rating: 3A

Max. ambient temperature up to 35°C

Indicator light: Led

Compliant with CE requirements:

Radio interference suppression EN 61000-6-3

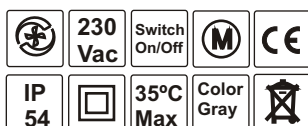
Interference immunity EN 61000-6-2

Enclosure and Mounting:
surface

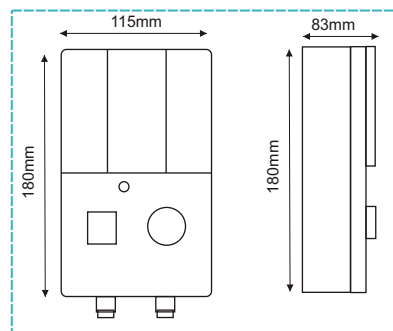
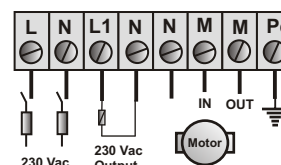
Connection:
According to wiring diagram

Type	Order code	Current AC
TMR 08	500 208	0,8 A
TMR 10	500 210	1,0 A
TMR 15	500 215	1,5 A

Dimensions: 180*115*95
Weight: 2000 gr



Wiring diagram





RE 1

Transformer Speed controller



SPECIFICATIONS

Application:

Single phase transformer speed controllers are based on the principle of voltage control with auto-transformers. They are applicable to voltage-controllable motors (230 V, 50/60 Hz) to control the speed (of fans, pumps, etc.). A number of fans can be controlled up to the controller's maximum load. When choosing a controller it is important to know the maximum current intensity consumption on the taps.

Technical data:

Voltage supply: 230Vac 50/60Hz

Control signal: 5 step switch

Load: from 1,0 up to 11 A

Enclosure: Plastic or sheet steel

Switch: On/Off and 5 steps positions

Output: 0-85-105-130-160-230V

Indicator light: Led

Connection: by terminals

Current fuse

Unregulated output 230V

Ready mounted cable glands

Max. ambient temperature up to 35°C

Compliant with CE requirements:

Radio interference suppression accor. EN61000-6-3

Interference immunity according EN 61000-6-2

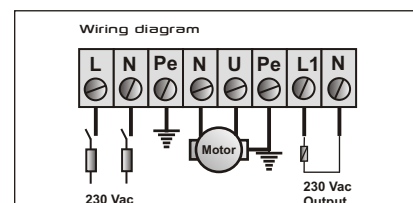
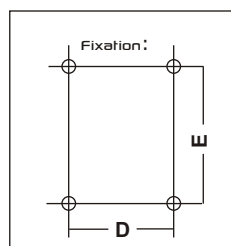
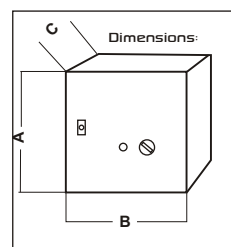
Mounting:

surface

Connection:

According wiring diagram

Type	Order code	Current AC	Dimensions
Re10	500 310	1,0A	180*115*95
Re15	500 310	1,5A	180*115*95
Re22	500 310	2,2A	220*170*85
Re35	500 310	3,5A	220*170*85
Re50	500 310	5,0A	310*240*125
Re70	500 310	7,0A	310*240*125
Re75	500 310	7,5A	310*240*125
Re110	500 310	11A	310*300*150



RES 1

Transformer Speed controller



SPECIFICATIONS.

Application:

Single phase transformer speed controllers are based on the principle of voltage control with auto-transformers. They are applicable to voltage-controllable motors (230 V, 50/60 Hz) to control the speed (of fans, pumps, etc.). A number of fans can be controlled up to the controller's maximum load. When choosing a controller it is important to know the maximum current intensity consumption on the taps. Motor protection, by connecting thermal /overheating/ contacts of the motor. After overheating manual reset by turning the switch to zero position.

Technical data:

Voltage supply: 230Vac 50/60Hz
 Control signal: 5 step switch
 Load: from 3,5 up to 11 A
 Enclosure: Plastic or sheet steel
 Switch: On/Off and 5 steps positions
 Output: 0-85-105-130-160-230V
 Indicator light: Led
 Connection: by terminals
 Current fuse
 Unregulated output 230V
 Ready mounted cable glands
 Max. ambient temperature up to 35°C

Compliant with CE requirements:

Radio interference suppression accor. EN61000-6-3
 Interference immunity according EN 61000-6-2

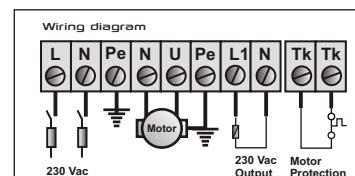
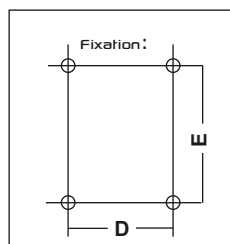
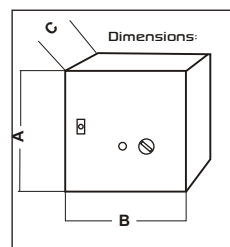
Mounting:

surface

Connection:

According wiring diagram

Type	Order code	Current AC	Dimensions
RES 35	500 435	3,5A	220*170*85
RES 50	500 450	5A	310*240*125
RES 70	500 470	7A	310*240*125
RES 75	500 475	7,5A	310*240*125
RES 110	500 411	11A	310*300*150





RT 4

Transformer Speed controller

SPECIFICATIONS

Application:

Three phase transformer speed controllers are based on the principle of voltage control with auto-transformers. They are applicable to voltage-controllable motors (400 V, 50/60 Hz) to control the speed (of fans, pumps, etc.). A number of fans can be controlled up to the controller's maximum load. When choosing a controller it is important to know the maximum current intensity consumption on the taps.

Technical data:

Voltage supply: 400Vac 50/60Hz
 Control signal: 5 step switch
 Load: from 1,5 up to 11 A.
 Mounting: Surface.
 Enclosure: Plastic or sheet steel.
 Switch: On/Off and 5 steps positions.
 Output: 0-95-145-200-280-400V.
 Indicator light.

Unregulated output 230V.

Connection: by terminals.

Ready mounted cable glands.

Max. ambient temperature up to 35°C

Compliant with CE requirements:

Radio interference suppression accor. EN61000-6-3

Interference immunity according EN 61000-6-2

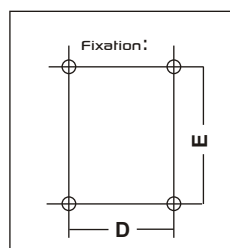
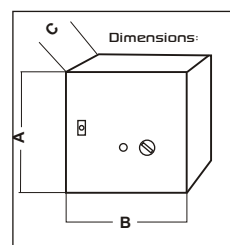
Mounting:

surface

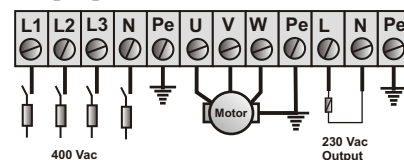
Connection:

According wiring diagram

Type	Order code	Current AC	Dimensions
RT 15	500 515	1.5A	310*240*125
RT 25	500 525	2.5A	310*240*125
RT 40	500 540	4.0A	400*300*150
RT 50	500 550	5.0A	400*300*150
RT 60	500 560	6.0A	400*300*200
RT 80	500 580	8.0A	400*300*200
RT 110	500 511	11.0A	400*400*200
RT 120	500 512	12.0A	400*200*200



Wiring diagram





RTS 4

Transformer Speed controller

SPECIFICATIONS

Application:

Three phase transformer speed controllers are based on the principle of voltage control with auto-transformers. They are applicable to voltage-controllable motors (400 V, 50/60 Hz) to control the speed (of fans, pumps, etc.) They are fitted out with (TK) contacts for thermal motor protection

Motor protection, by connecting thermal /overheating/ contacts of the motor. When choosing a controller it is important to know the maximum current intensity consumption on the taps.

Technical data:

Voltage supply: 400Vac 50/60Hz

Control signal: 5 step switch

Load: from 1,5 up to 11 A.

Enclosure: Plastic or sheet steel.

Switch: On/Off and 5 steps positions.

Output: 0-95-145-200-280-400V.

Indicator light: Led

Connection: by terminals

Unregulated output 230V

Ready mounted cable glands.

Max. ambient temperature up to 35°C

Compliant with CE requirements:

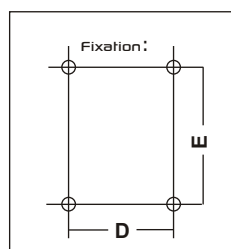
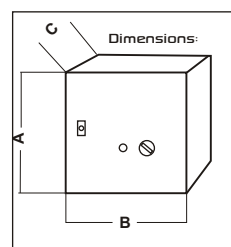
Radio interference suppression accor. EN61000-6-3

Interference immunity according EN 61000-6-2

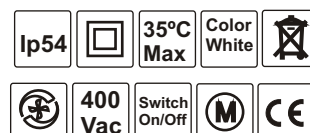
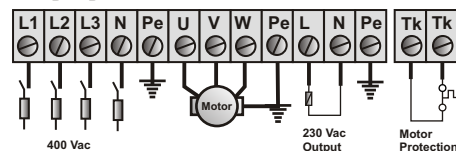
Mounting: surface

Connection: According wiring diagram

Type	Order code	Current AC	Dimensions
RTS 15	500 515	1.5A	310*240*125
RTS 25	500 525	2.5A	310*240*125
RTS 40	500 540	4.0A	400*300*150
RTS 50	500 550	5.0A	400*300*150
RTS 60	500 560	6.0A	400*300*200
RTS 80	500 580	8.0A	400*300*200
RTS 110	500 511	11.0A	400*400*200
RTS 120	500 512	12.0A	400*200*200



Wiring diagram



ATS

Auto transformers



SPECIFICATIONS

Application:

Transformers for switch cabinet installation. Auto-transformers, open model, are provided with finger proof (IP20) connecting clamps, fastening clips and 5 branches. Transformers based voltage controller. For switch board mounting, they can be used, in V-connection, with voltage controllable motors (230 Vac, 50/60 Hz) for adjusting the rotational speed (fans, pumps, among others). When choosing a transformer, it is important to know the maximum current intensity consumption. The given intensity can be taken from every tapping.

Technical data:

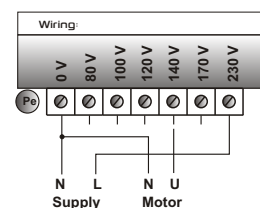
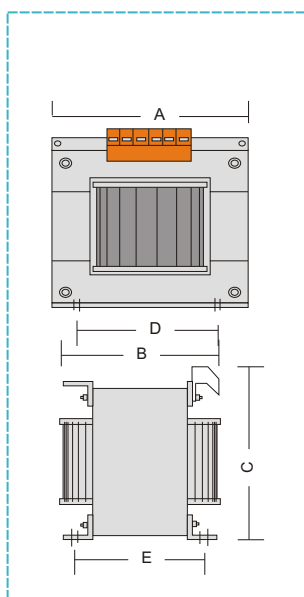
Supply: 230 Vac - 50/60 Hz
 Load: from 1,5A up to 11A
 Connection: Terminal block
 Output: 0-80-105-130-160-230V
 Compact design
 Mounting brackets
 Open model
 According to: EN61558
 Max. ambient temperature up to 35°C

Compliant with CE requirements:
 Radio interference suppression accor. EN61000-6-3
 Interference immunity according EN 61000-6-2

Mounting:
 surface

Connection:
 According wiring diagram

Type	Order code	Current AC	Kg
ATS10	600 110	1,0A	1,50
ATS15	600 115	1,5A	1,80
ATS22	600 220	2,2A	2,80
ATS35	600 135	3,5A	3,20
ATS50	600 150	5,0A	4,30
ATS70	600 170	7,0A	6,20
ATS75	600 175	7,5A	6,40
ATS110	600 110	11A	9,50



ATT

Auto transformers



SPECIFICATIONS

Application:

Three phase auto-transformers for switch cabinet installation. Auto-transformers, open model, are provided with finger proof (IP20) connecting clamps, fastening clips and 5 branches. Transformers based voltage controller. For switch board mounting, they can be used, in V-connection, with voltage controllable motors (400 Vac, 50/60 Hz) for adjusting the rotational speed (fans, pumps, among others).

When choosing a transformer, it is important to know the maximum current intensity consumption.

The given intensity can be taken from every tapping.

Technical data:

Supply: 400 Vac - 50/60 Hz
 Load: from 1,5A up to 11A
 Connection: Terminal block
 Output: 0-95-145-200-280-400V
 Compact design
 Mounting brackets
 Open model
 According to: EN 61558
 Special for ventilation systems
 Max. ambient temperature up to 35°C

Compliant with CE requirements:

Radio interference suppression accor. EN61000-6-3 EN61558-1/2-13
 Interference immunity according EN 61000-6-2

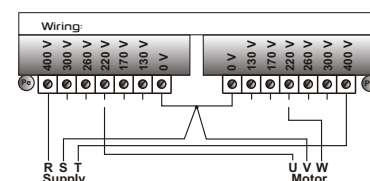
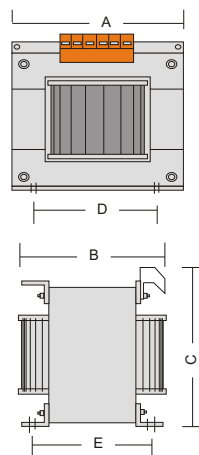
Mounting:

surface

Connection:

According wiring diagram

Type	Order code	Current AC	Kg
ATT 15	600 215	1.5A	2.80
ATT 25	600 225	2.5A	2.90
ATT 40	600 240	4.0A	4.30
ATT 50	600 250	5.0A	6.80
ATT 60	600 260	6.0A	7.00
ATT 80	600 280	8.0A	9.50
ATT 110	600 211	11.0A	13.00
ATT 120	600 212	12.0A	13.50





Speed controls

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