



RE Manual five-step transformer

A single-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit. The transformer has 230V terminals for operating dampers, electric heater batteries or other external equipment. When the transformer knob is in position 0, the outlet has no current. The indicator lamp on the front shows that the transformer is in operation. The fuse may be reset from outside. The RE has a self-extinguishing thermoplastic casing.

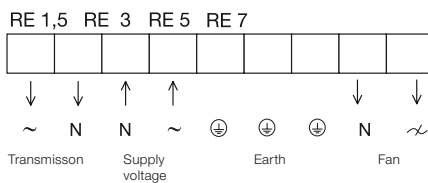
NOTE! Fans with external contact leads (TK) must always be connected to a motor protection device.

Output voltages for each of the 5 steps:

Step	1	2	3	4	5
Voltage	80	105	130	160	230

RE	Current	Enclosure
1.5	1.5	54
3	3	54
5	4	54
7	7	54

RE	Width	Height	Depth	Weight, kg
1.5	105	200	105	1.5
3	105	200	105	2.5
5	105	200	105	4.1
7	147	257	145	7.5



Transmission: between ~ and N is always 230V when the transformer handle is in pos. 1-5



RTRE Manual five-step transformer (with motor protection)

A single-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit. An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated. The unit is reset by turning the knob to "0" for 10 seconds, after which the unit restarts.

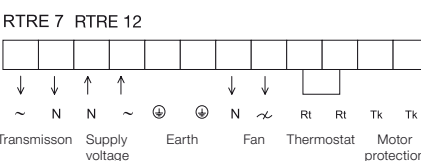
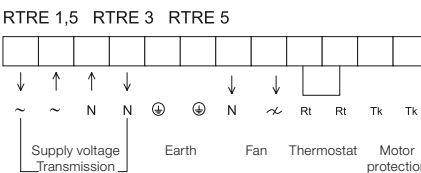
The unit has input terminals for room thermostat RT, which stops the supply voltage to the fan when the circuit is broken. These terminals are bridged before delivery. The transformer has 230V terminals for operating dampers, electric water-heater batteries or other external equipment. These terminals have no current when the transformer knob is in position 0, or when the TK or RT input is open. The indicator lamp on the front shows when the transformer is in operation. The fuse may be reset from outside. The RTRE has a self-extinguishing thermoplastic casing. Supply voltage: 230V 50/60Hz.

Output voltages for each of the 5 steps:

Step	1	2	3	4	5
Voltage	80	105	130	160	230

RTRE	Current	Enclosure
1.5	1.5	IP 54
3	3	IP 54
5	5	IP 54
7	7	IP 54
12	12	IP 54

RTRE	Width	Height	Depth	Weight, kg
1.5	105	203	106	1.9
3	105	203	106	2.6
5	105	203	106	4.2
7	104	278	140	7.2
12	147	278	140	10.5



REU Manual five-step transformer

A single-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit. There are two control switches: one for higher fan speeds and one for lower fan speeds. Switching between the high and low settings is done by an external change-over contact, which could be a thermostat or a timer. The indicator lamp on the front shows when the transformer is in operation. The fuse may be reset from outside. The REU has a self-extinguishing thermoplastic casing. Supply voltage: 230V 50/60Hz.

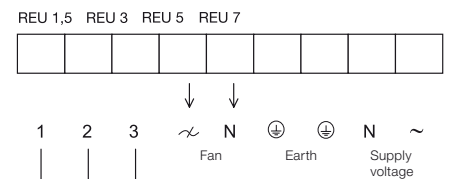
NOTE! Fans with external thermal contact leads (TK) must always be connected to a motor protection device.

Output voltages for each of the 5 steps:

Step	1	2	3	4	5
Voltage	80	105	130	160	230

REU	Current	Enclosure
1.5	1.5	IP 54
3	3	IP 54
5	5	IP 54
7	7	IP 54

REU	Width	Height	Depth	Weight, kg
1.5	105	200	105	2.0
3	105	275	145	4.05
5	105	275	145	4.9
7	105	275	145	7.05



1. Switching contact
2. Low speed contact
3. High speed contact

NB! A switching contact has to be connected



RTRD
Manual five-step transformer

(With motor protection).

A three-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knob on the front of the unit.

An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated. The unit is reset by turning the knob to "0" for 10 seconds, after which the unit restarts.

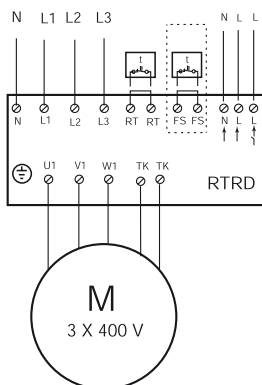
Input terminals for room thermostat RT and frost protection thermostat FS cut supply voltage to the fan when the circuit is broken. When the frost protection thermostat FS breaks the circuit, it is reset in the same way as when the TK is triggered. Terminals are linked before delivery. The indicator lamp on the front shows that the transformer is in operation. The transformer has 230V terminals for operating dampers, electric heater batteries or other external equipment. These terminals have no current when the transformer knob is in position 0, or when the TK or RT input is open. Supply voltage: 400V 50/60Hz.

Output voltages for each of the 5 steps:

Step	1	2	3	4	5
Voltage	95	145	190	240	400

RTRD	Current	Enclosure
2	2	IP 54
3	3	IP 54
4	4	IP 21
5.2	5.2	IP 54
7	7	IP 21
14	14	IP 21

RTRD	Width	Height	Depth	Weight, kg
2	240	284	132	7.4
3	270	323	172	11
4	270	323	173	11
5.2	270	323	172	15.6
7	270	323	172	16
14	450	290	174	32



RTRDU
Manual five-step transformer

(With motor protection).

A three-phase transformer which controls the fan speed by altering the supply voltage in five fixed steps. The steps are adjusted manually, using the control knobs on the front of the unit.

There are two control knobs: one for higher fan speeds and one for lower fan speeds. Switching between the high and low settings is done by an external change-over contact, which could be a thermostat or a timer.

An integral motor protection device is included which cuts the supply voltage to the fan if the thermal contact in the fan motor is activated. The unit is reset by turning the switch to "0" for 10 seconds, after which the unit restarts.

Input terminals for room thermostat RT cuts supply voltage to the fan when the circuit is broken. Terminals are linked before delivery. The indicator lamp on the front shows when the transformer is in operation.

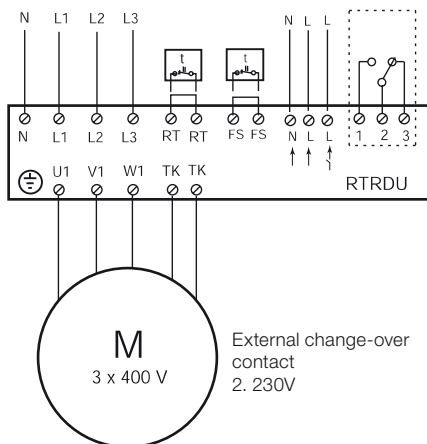
The transformer has 230V terminals for operating dampers, electric heater batteries or other external equipment. These terminals have no current when the transformer switch is in position 0, or when the TK or RT input is open. Supply voltage: 400V 50/60Hz.

Output voltages for each of the 5 steps:

Step	1	2	3	4	5
Voltage	95	145	190	240	400

RTRDU	Current	Enclosure
2	2	IP 21
4	4	IP 21
7	7	IP 21

RTRDU	Width	Height	Depth	Weight, kg
2	270	323	163	8
4	270	323	163	12
7	270	323	163	16.5



External change-over contact
2. 230V

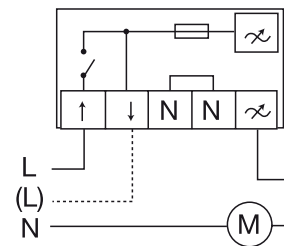


REE
Thyristor speed controller

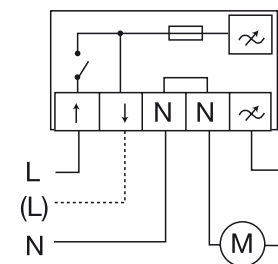
- only surface mounting

For the manual control of speed and air flow of electrical fans, AC-induction motors of universal motor- and permanent-capacitor type. The jetproof IP 54 enclosure is achieved with the included surface mounting case. (Flushmounting without the surface mounting case, gives a splash proof IP 44 enclosure also suitable for highly demanding environments as bathrooms etc.) Several motors can be connected in parallel as long as the total current does not exceed current range. Starting currents must be considered when choosing speed controller type. Fans to be used with this controller require a built-in overheating protection and should be designed for thyristor speed control.

	REE 1	REE 2	REE 4
Voltage	V 230 ~	230~	230~
Frequency	Hz 50	50	50
Current	A 0.1-1.0	0.1-2.0	0.4-4.0
Fuse	A 1.25	2.5	5
Enclosure	IP 54	54	54
WxHxD	mm 82x82x65	82x82x65	82x82x65
Weight	kg 0.25	0.25	0.25



L (L)
N



Line L state connection with cutting function on the speed control.

Broken line (L) state connection without cutting function.