ARWE USER MANUAL

Autotransformer speed controller for HVAC controlled with external 0-10VDC signal

1. Application.

ARWE is an autotransformer fan speed controller dedicated for single-phase AC motor in ventilation and heating systems. The controller provides a 5-step output voltage regulation according to 0-10 VDC input signal.

2. Technical Data.

4.1 Electric parameters.

The parameters.									
T	1 1	Regulation steps $U_R[V]/I_R[A]$							
Type	U _{PRI} [V]	1	2	3	4	5			
ARWE 2,5/2-A	230	70/1,5	85/1,9	105/2,2	145/2,5	230/2,5			
ARWE 3,0/2-A	230	70/1,5	85/1,8	105/2,2	145/2,7	230/3,0			
Control voltage [VDC]		0,2-1,2	1,3 - 2,2	2,3 - 5,4	5,5 - 7,4	7,5 - 10			

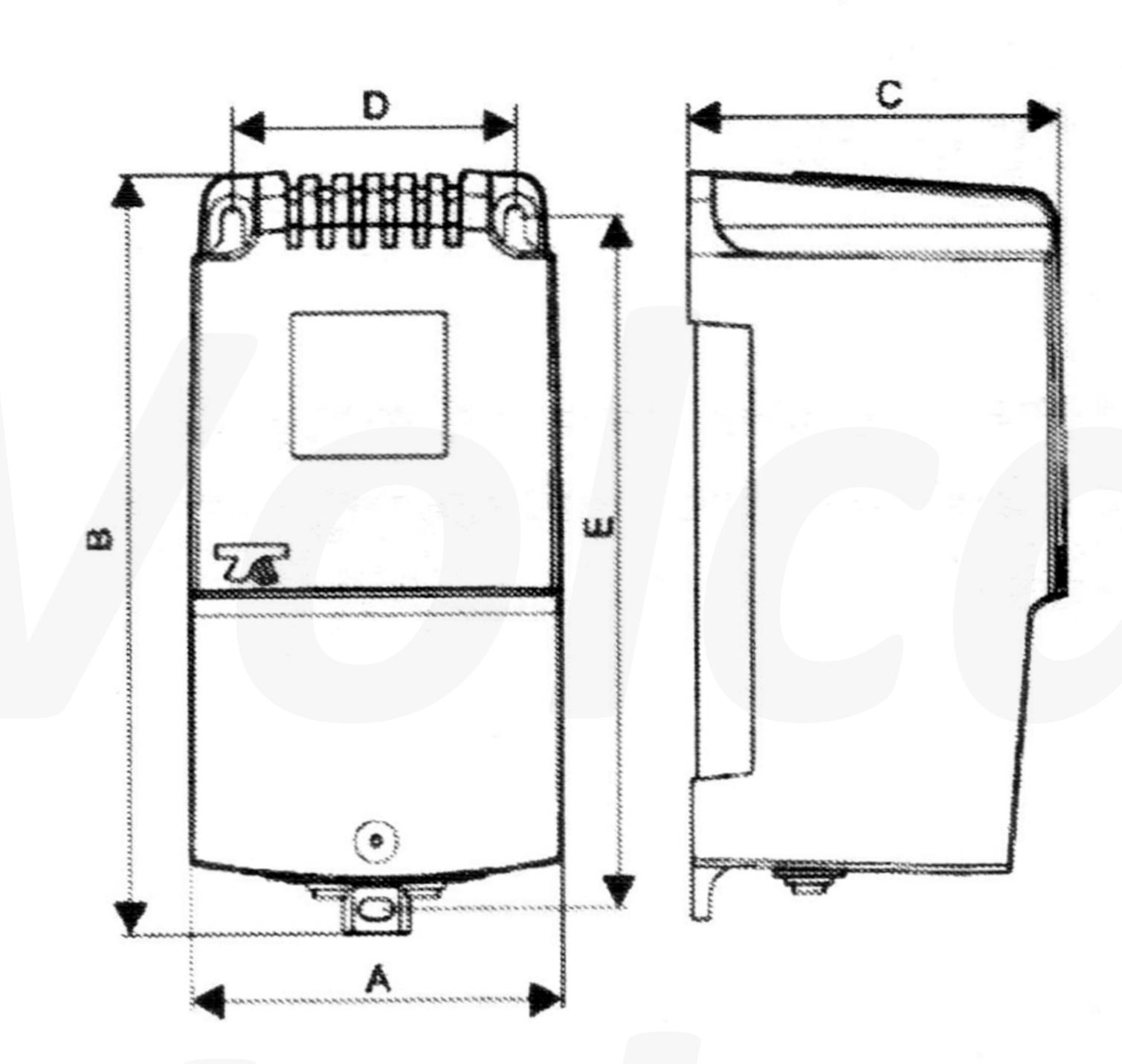
4.3 Other technical data.

Protection grade	IP54			
Ambient temperature	+40°C			
Protection	Short time overload protection – thermal automatic cutout Electronic protection against shorted relays contact – flashing green led.			
Manufactured in compliance with	PN-EN61558-1, PN-EN61558-2-13			
Insulation class	II + PE circuit continuity			
Type of controll	External control with 0-10VDC signal			

3. Installation.

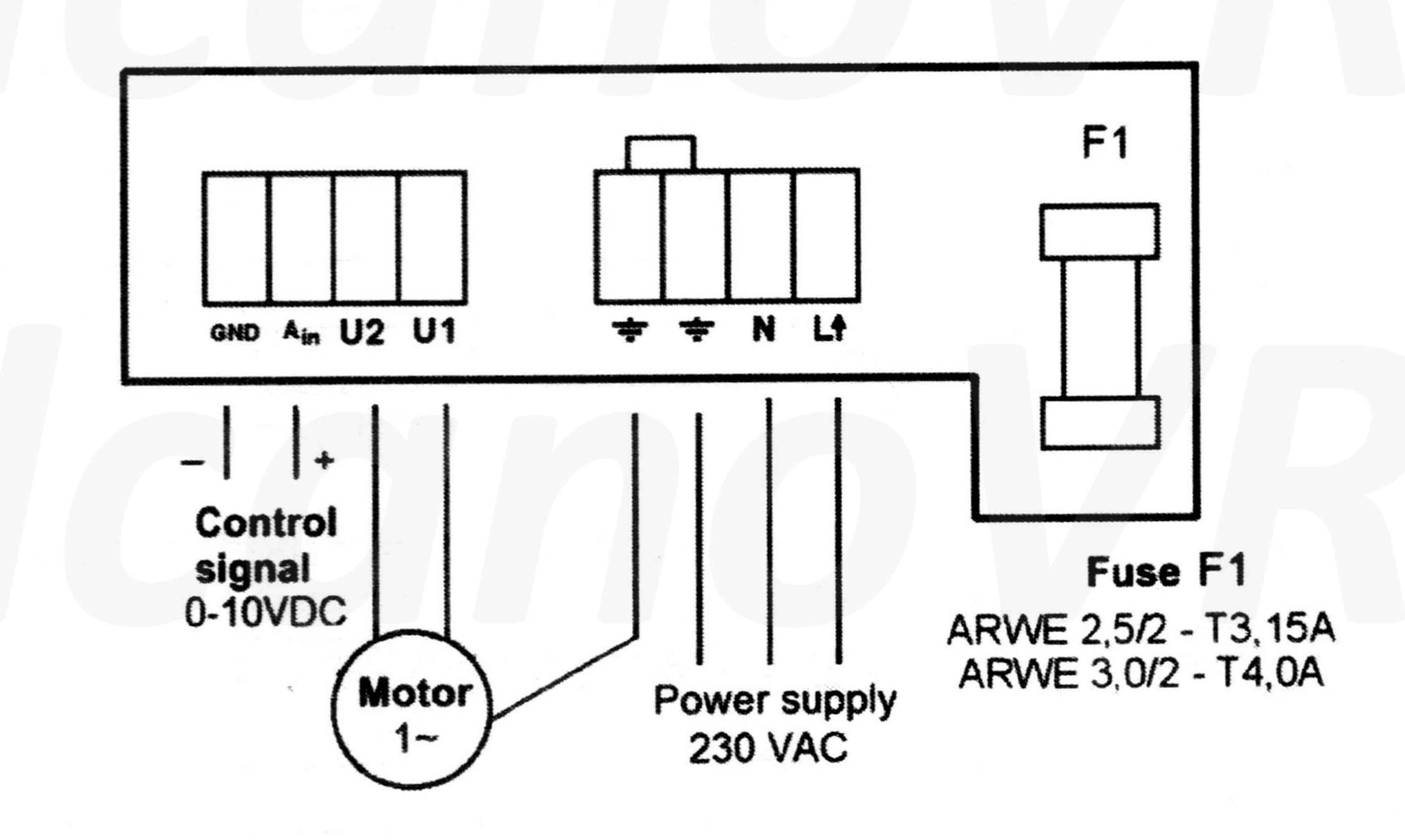
- 3.1 Pay attention to the controller admissible ambient temperature (+40°C). During controller operation the housing may be hot. Provide at least 5cm distance between two or more mounted controllers. Mounting position vertical only.
- 3.2 Screw a controller to the flat surface (e.g. wall) with the use of tap screws.
- 3.3 Open the controller's housing by unscrewing the screws of cover with cable-bush.
- 3.4 Insert cables into a cable-bush.
- 3.5 Make the connections according to the diagram attached.
- 3.6 Put the installation fuses in supply circuit.

4. Dimensions.



Type	Dimensions [mm]					
	Α	В	C	D	E	
ARWE 2,5/2-A	90	175	95	71	157	
ARWE 3,0/2-A	90	175	95	71	157	

5. Connection diagram.



6. Safety precautions.

- 6.1 Any controller installation can be done by qualified electrician only.
- 6.2 Live controller installation may lead to electric shock.
- 6.3 Maximum constant current in a receiver mustn't exceed respective level designed for (p.4.1).

7. Maintance.

- 7.1 The original box used by the producer provide safety transport and storage.
- 7.2 For keeping in storage use the original boxing only.
- 7.3 Keep in temperatures from -5°C to +50°C.

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