

### 6.3 EVDFAN1 cut-off speed regulator

The EVDFAN1 is a cut-off speed regulator for controlling single-phase fans (fans with maximum current absorption equal to 5 A).

It is ideal for controlling the condensation/evaporation fans on a refrigeration control unit.



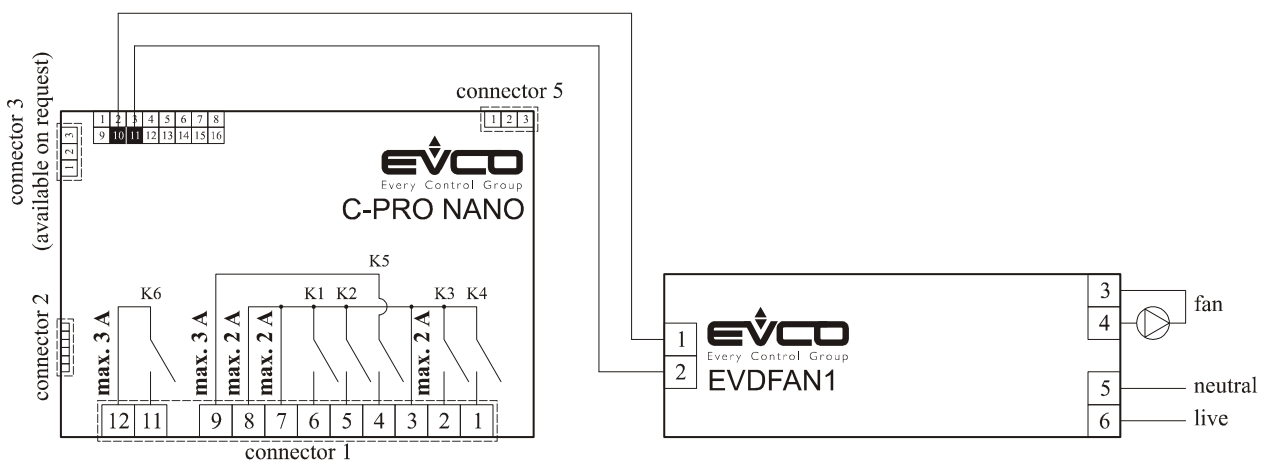
EVDFAN1

The fan module is available as an open card version, and is mounted on a plastic base suitable for fitting on a DIN rail.

135 mm x 71 mm

DIN rail fan module dimensions

#### Connections



C-PRO NANO with EVDFAN1 wiring diagram

<b>Terminals 1 and 2:</b> Control input connector (Phoenix pull-out)		
<b>Conn.</b>	<b>Abbrev.</b>	<b>Description</b>
1	12 V DC	12 V DC power supply
2	AO1	Impulse cut-off input

<b>Terminals 3, 4, 5 and 6:</b> Power connectors (FAST-ON)		
<b>Conn.</b>	<b>Abbrev.</b>	<b>Description</b>
3	LOAD	Load
4	LOAD	Load (Neutral)
5	LOAD	Neutral 230 V AC
6	LOAD	Live 230 V AC

The cut-off module allows the control of single-phase fans with a maximum current equal to 5 A. The fan module live feed must be the same as that feeding the controller.

If the C-PRO NANO has a DC power supply, then it is not possible to control the fans using the EVDFAN1.

Example:

$$V_{AC} = 230 \text{ V}$$

$$I_{max} = 5 \text{ A}$$

$$VA_{(max)} = 230 * 5 = 1150 \text{ VA}$$

$$W_{(max)} = 230 * 5 * \cos\phi = 1150 \text{ Watts if } \cos\phi=1$$