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MST-03

Inrush current limiter for
230 V AC circuits

5 902431 674384

Do not dispose of this device in the trash along with other waste!
According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.

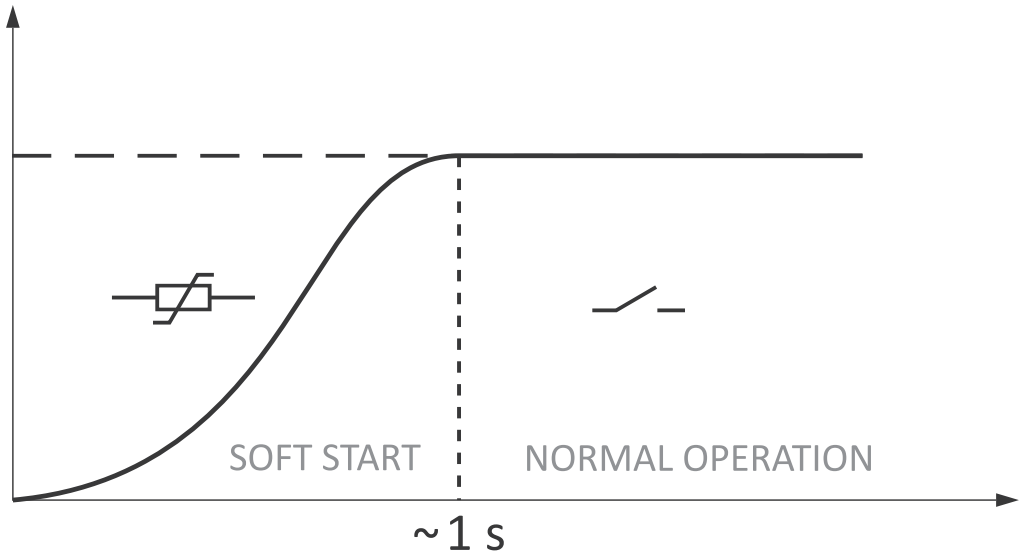
Purpose

The MST-03 is designed to limit current overcurrents occurring when switching on the power supply of circuits with inductive or capacitive characteristics (such as LED lighting, pulse power supplies, lighting fixtures) or non-linear characteristics (such as incandescent and halogen lamps).

Functioning

When switched on by a momentary (bell) switch, the initial current flowing through capacitive, inductive or non-linear loads may exceed the rated values many times. The duration of such overcurrent is very short (usually less than 0.1 second), but due to the level of overcurrent it can lead to tripping of overcurrent protections or bonding of relay contacts in home automation systems. When switched on, the MST-03 forces the current to flow through the built-in NTC thermistor limiting the maximum current amplitude. After a period of 1÷1.5 seconds the thermistor is blocked and from then on the current flows into the load without any restriction. The resistance of the thermistor depends on

the current value and the time of operation, so that the effect of the limitation weakens over time, minimizing the current spike that could occur when the thermistor is disconnected.



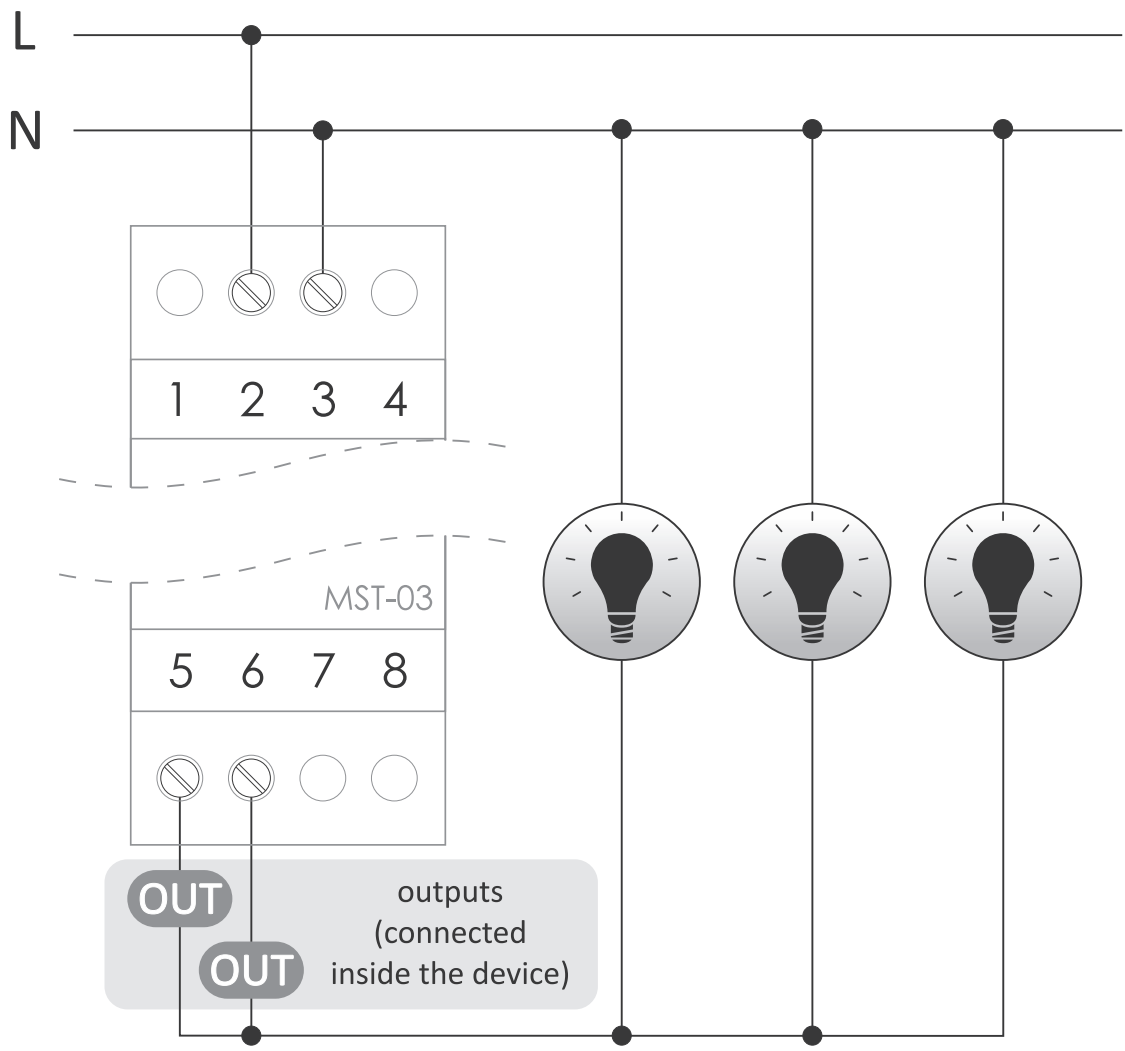
Illustrative presentation of the operation of MST-03

MST-03 is not designed for smooth lighting brightening.

Mounting

1. Disconnect the power supply.
2. Fix the limiter on a rail in the distribution box.
3. Connect to the circuit according to the diagram.

Wiring diagram



Description of terminals

2, 3 power supply 230 V
5, 6 outputs (connected inside the device)

Technical data

power supply	230 V AC
output voltage	230 V AC
maximum load current (AC-1)	30 A
executive element	relay + NTC thermistor
switching delay	1÷1.5 s
power consumption	1 W
terminal	2.5 mm^2 screw terminals
tightening torque	0.4 Nm
working temperature	-25÷50°C
dimensions	2 modules (35 mm)
mounting	on TH-35 rail
ingress protection	IP20

Warranty

The F&F products are covered by a warranty of the 24 months from the date of purchase. Effective only with proof of purchase. Contact your dealer or directly with us.

CE declaration

F&F Filipowski L.P. declares that the device is in conformity with the essential requirements of The Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found at www.fif.com.pl on the product page.