☐ Features

- Microcontroller based.
- Modular design, 18mm wide housing.
- Current actuation threshold adjustable
- Trip and start-up delay adjustable
- Possible to use for scanning of current from current transformer up to 600A
- 1C/O output-8A
- LED indication for power supply and relay status
- DIN Rail mounting

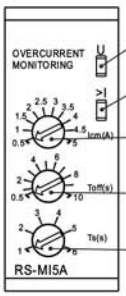
☐ Technical data

Power supply terminals	L-N
Rated supply voltage(Un)	AC220V±20%, 50/60Hz
Current input terminals	B1-B2
Current actuation threshold	0.5A~10A
Hysteresis	5% * current setting value
Current setting error	5%
Measurement frequency	45~65Hz
Start-up delay	1s~6s
Trip delay	0.5s~10s
Delay error	±5%
Power consumption	0.85W
Current load	8A/AC1
Output contact	1C/O
Rated insulation voltage	250VAC
Max.fuse ratings	RT36-00 5A
Protection degree	IP20
Pollution degree	3
Electrical life	10^5
Mechanical life	10^6
Altitude	≤2000m
Ambient temperature	-25°C~+50°C
Permissable relative humidity	≤50% at 40℃(without condensation)
Storage temperature	-25°C~+75°C
Conductor size	0.5~2.5mm²
Tightening torque	0.5Nm

Models	Over current	Under current	Current range
RS-MI5A	•		0.5~5A
RS-MI10A	•		1~10A
RS-MI5B		•	0.5~5A
RS-MI10B		•	1~10A

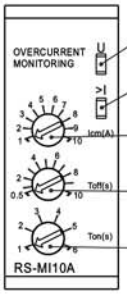
☐ Front-face panel

○ RS-MI5A



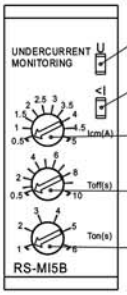
① Supply indication LED **U**
② Overcurrent faults indication LED **>I**
③ Actuation threshold adjustment **Icm**
④ Trip delay adjustment **Toff**
⑤ Start-up delay adjustment **Ton**

○ RS-MI10A



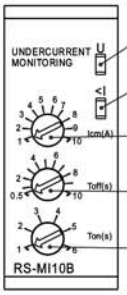
① Supply indication LED **U**
② Overcurrent faults indication LED **>I**
③ Actuation threshold adjustment **Icm**
④ Trip delay adjustment **Toff**
⑤ Start-up delay adjustment **Ton**

○ RS-MI5B

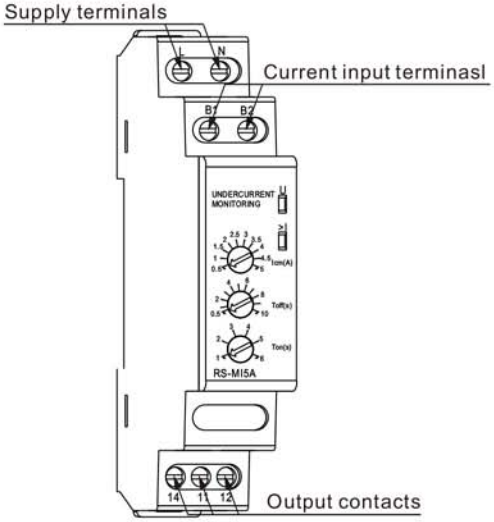


① Supply indication LED **U**
② Undercurrent faults indication LED **<I**
③ Actuation threshold adjustment **Icm**
④ Trip delay adjustment **Toff**
⑤ Start-up delay adjustment **Ton**

○ RS-MI10B

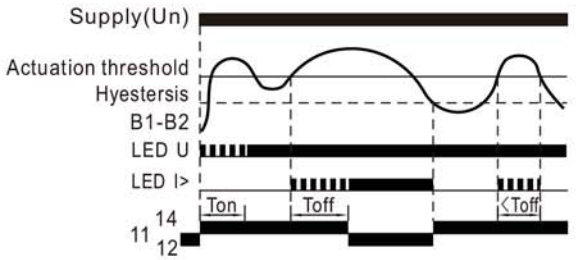


① Supply indication LED **U**
② Undercurrent faults indication LED **<I**
③ Actuation threshold adjustment **Icm**
④ Trip delay adjustment **Toff**
⑤ Start-up delay adjustment **Ton**

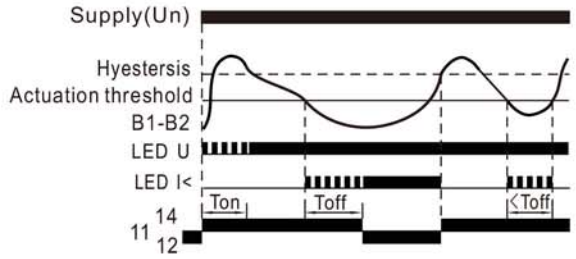


□ Function diagrams

● ESRS-MI5A/RS-MI10A



● ESRS-MI5B/RS-MI10B



Ton: Start-up delay Toff: Trip delay

□ Description

Current monitoring relay RS-MI series are designed to protect motors and systems against over(under) current with a current adjustment and two delay adjustment(start-up and trip).Start-up delay is used to protect false contact turn-off arising from initial start-up currents.
It's possible to increase the range of RS-MI by using an external current transformer.

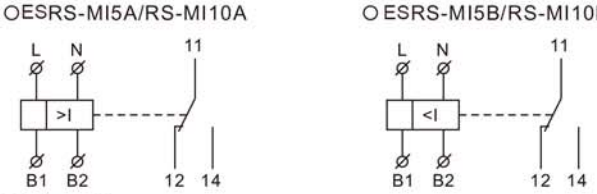
ESRS-MI5A/RS-MI10A:

RS-MI5A/RS-MI10A series measure the current of motor or protected systems and are used to turn-off the motor or protected systems when measured current is higher than the set **Icm** value.
When the current value is lower than **Icm** value, the output relay is switched on. When the current value becomes higher than **Icm** value, LED >I flashes.The output relay is switched off after an adjustable trip delay, LED >I lightS up. The motor or protected system is turned off.

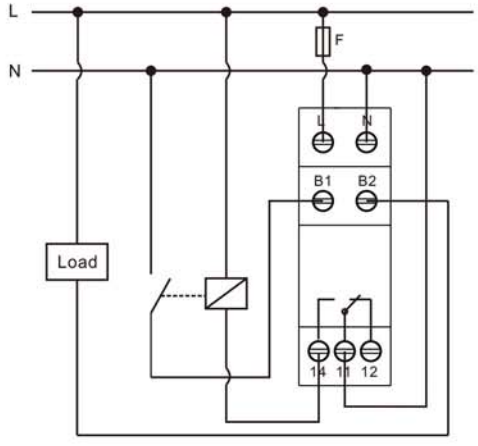
ESRS-MI5B/RS-MI10B:

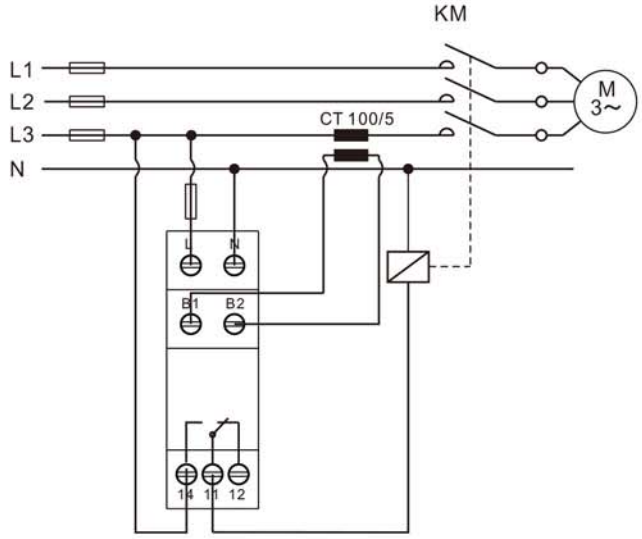
RS-MI5B/RS-MI10B series measure the current of motor or protected systems and are used to turn-off the motor or protected systems when measured current is below than the set **Icm** value.
When the current value is higher than **Icm** value, the output relay is switched on. When the current value becomes lower than **Icm** value, LED <I flashes.The output relay is switched off after an adjustable trip delay, LED <I lights up. The motor or protected system is turned off.

□ Symbols



□ Wiring diagrams





Note: It is possible to increase the current range of RS-MI by using an external current transformer if measured current exceed 10A

□ Dimensions