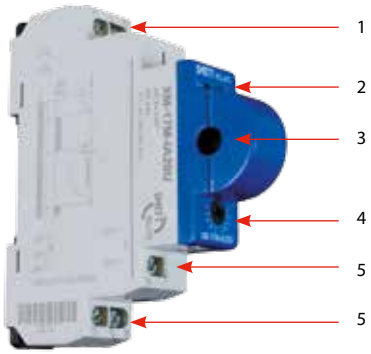
XM-17M-IA20U - Current monitoring relay, 1 C/O

Manual

Description

The XM-17M-IA20U is a 1-phase current monitoring relay against short circuit and current overload. With an adjustable current range of 1...20 A.

Layout



1. Supply / monitoring voltages
2. Output terminals
3. Controlling cable outlet (max. 6 mm)
4. Ajustment of current level
5. Output contacts

Technical information

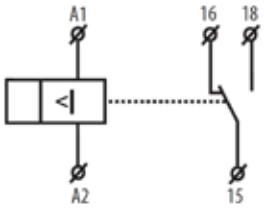
Supply voltage	24...240 VAC / 24 VDC
Measuring range	1...20 A
Contacts	1 C/O contact
Rated current	8 A / AC1
Max. conductor size	6 mm
Ambient temperature	-20 °C...+55 °C

Mors Smitt B.V.
Vrieslantlaan 6
3526 AA Utrecht
the Netherlands

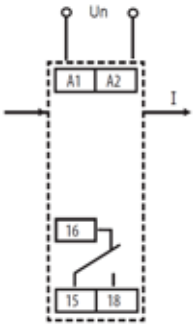
T +31 (0)30 288 13 11
E sales.msbv@wabtec.com

www.morssmitt.com

Connection diagram



Connection

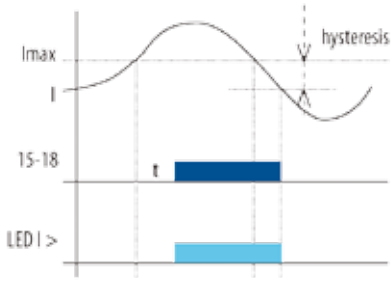


Function

The XM-17M-IA20U serves for monitoring of current level in 1-phase AC circuits. Slight setting of release current level designates this relay for many various applications.

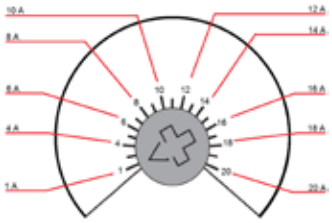
Output relay is in normal status switched-off. When set current level is overrun, relay get closed after pre-set delay. By return from error to normal status is used hysteresis.

The range is possible to increase with external current transformer till max 600 A.



Current level setting

A current level can be set from 1 A till 20 A.



Example: if the set current is 10 A and the time delay is 5 seconds, the relay will switch when the current exceeds the set value of 10 A for minimal 5 seconds

Installation

- Install and connect wiring according the identification on the terminals and connection diagram
- Do not reverse the polarity of the coil connection
- Relays can be mounted next to each other
- Warning! Never use silicon near the relays

Operation

- Before first operation; always apply voltage to supply and check correct operation
- Switching the load a few times before first use is advisable
- When the LED is green, coil voltage is indicated
- When the relay does not operate but coil voltage is present, coil polarity can be reversed
- Warning: Do not use the relay in locations with flammable gas, as the arc generated by switching could ignite the gas

Maintenance

- If the relay does not operate correctly, check the presence of the coil voltage by using a multimeter
- If the relay does not work after inspection, replace the relay by a similar model

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