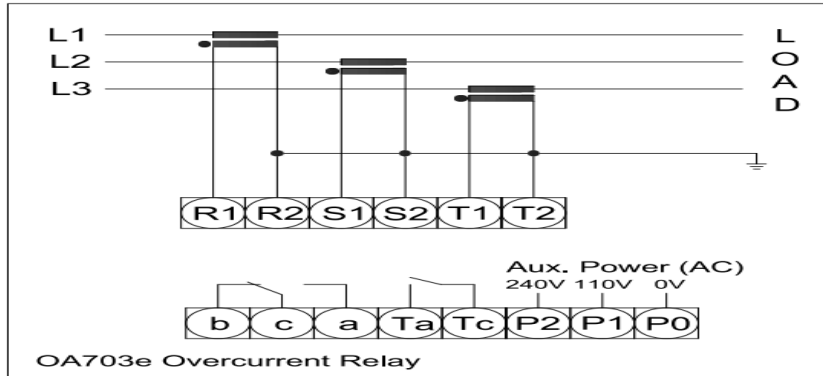
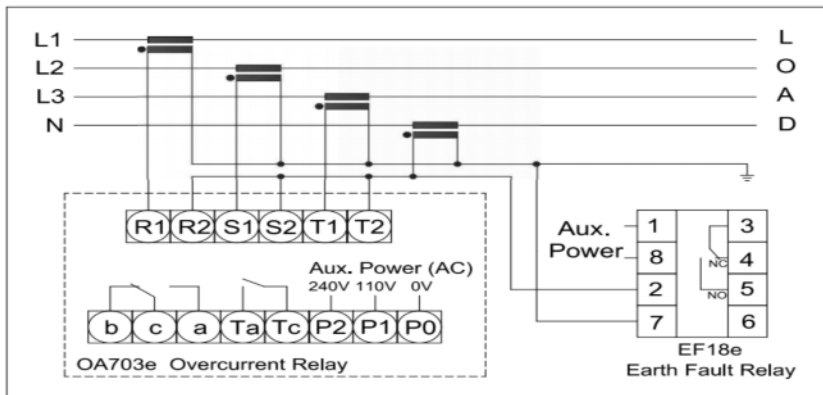


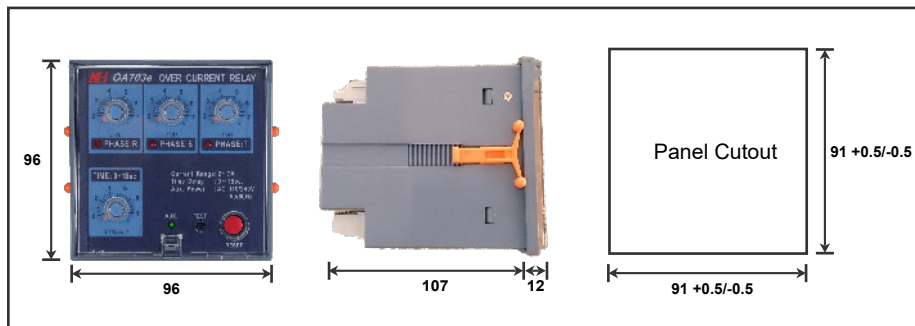
Connection Diagram



- When use with Earth Fault relay, EF18e

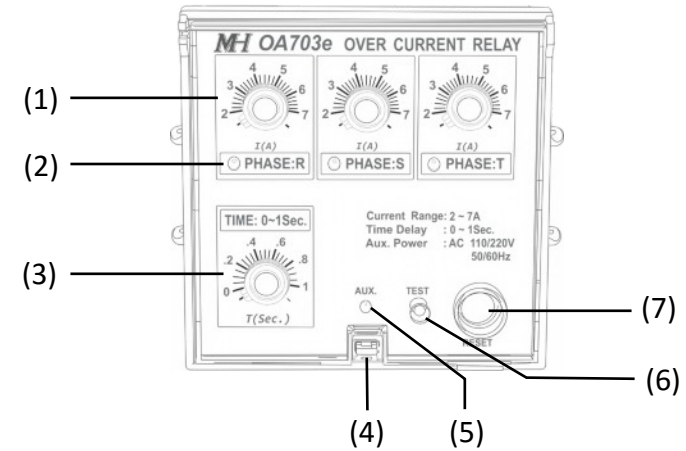


Dimensions



Operation and Installation guide OA703e DTL Overcurrent Relay - V1

Overview



- (1) Current Setting Knob
- (2) Trip LED (each phase has 1 LED)
- (3) Time Setting Knob
- (4) Tamper Proof Seal Slot
- (5) Aux Power Supply Indicator
- (6) Test Button
- (7) Reset Button

Features

- Provides elementary protection functions
- Added security against nuisance trip handling
- Manual test button for relay operation checking
- Integrated surge arrester against transient overvoltages
- Tamper-proof design for setting protection
- Type tested for vibration and mechanical shock test in accordance with IEC 60255-21

Operating description

Current Setting

- This is to set the threshold of the overcurrent. If the measured current exceeds this threshold value, the relay pick up and after the delay time lapse the trip contact will close which in turn trip the breaker.
- Current setting range: 2 to 7A

Time Setting

- This is to set the time delay for the relay is trip after detecting a fault
- Time setting range: 0 to 1 sec

Button Description

1. Test button

This is to check the functionality of the relay.

Press to simulate a overcurrent and trip the relay

2. Reset button

This is to reset the relay after tripping.

Press on to reset the relay and resume operation.

Contact

The relay is equipped with 2NO+1NC contact relay. The contact will energise after the delay time lapse during a fault.

The relay can only be reset when the reset button is pressed.

Compliance with standards

CISPR 11 / EN 55011	Conducted and radiated emissions
IEC/EN 61000-4-2	Electrostatic-discharge immunity
IEC/EN 61000-4-3	Radiated, radio-frequency, electromagnetic-field immunity
IEC/EN 61000-4-4	Electrical fast transient/burst immunity
IEC/EN61000-4-5	Surge immunity
IEC/EN61000-4-6	Immunity to conducted disturbances, induced by radio-frequency fields
IEC/EN61000-4-8	Power frequency magnetic field immunity
IEC/EN61000-4-11	Voltage dips, short interruptions and voltage variations immunity
IEC/EN 61000-4-18	Damped oscillatory wave immunity
IEC/EN 60255-1	Measuring relay and protection equipment
IEC/EN 60255-5	Insulation coordination for measuring relays and protection equipment. Requirement & Test.
IEC/EN 60255-21	Vibration, shock, bump and seismic tests on measuring relays and protection equipment
IEC/EN 60255-27	Measuring relays and protection equipment - Part 27: Product safety requirements

Technical Data

Power supply	: Dual voltage source AC110/240V ±15% (other voltages available upon request)
Operating frequency	: 50/60Hz
Current setting	: AC 2 - 7A
Delay time setting	: 0 - 1 sec (0 to 10 sec available upon request)
Operating time	: 105% input < 300ms More than 200% input < 100ms
Reset current value	: ≤90% of the operating value
Overcurrent withstand	: 10 x I rated (for 3 sec)
Operating and storage temperature range	: Operating -10°C to 60°C Storage and transit -20°C to 65°C
Relative humidity (IEC 60068-2-30)	: 95% at +40°C
Degree of protection (IEC 60529)	: IP52 (front)
Voltage withstand (IEC 60255-5)	: AC 2kV for 1 min
Vibration (IEC 60255-21)	: 0.5G between 10Hz and 150Hz
Operation life expectancy	: Electrical: > 10,000 operations
Output contact	: Mechanical: > 5 x 10 ⁶ operations AC250V, 5A
Indication	: Green LED (Aux. Power) Red LED (Trip Indicator)
Housing material	: ABS resin complying with UL94V0
Unit Weight	: Approximately 390g
Power consumption	: ≤ 2VA