MRL TR01 Instantaneous Fast Trip relay

Specifications

- Very fast contacts (less than 5ms operate time)
- Heavy duty NO contacts (15A @ 110Vdc)
- Front LED indicator (Trip indicator)
- Front safety LED indicator
- Possibility to trip even when the relay DC supply is missed
- Latched trip LED
- Withdrawable case

Inputs

One digital input for <u>trip</u> signal
 Vin unlock, range: 70+/-10 to 180 V dc

Nominal Voltage: 110 V dc

Output contacts specifications

- Two N.O. heavy duty & very fast contacts:

Operate time: Pick up: < 5 m Sec

Drop out: < 6 m Sec

Contact material: AgSnO₂ Contact gap: 2.1 mm Permanent current: 16A

Max peak current: 30 A for 1 Sec

120 A for 5 m Sec

Breaking current capacity: At 125 V dc: 12 A

At 110 V dc: 15 A

Breaking current capacity inductive with

L/R 40 m Sec: At 125 V dc: 2 A

At 110 V dc: 2.5 A

Max. switching voltage: 250 V dc, 400 V ac

Note: Other contacts should not be connected in series with these very fast and heavy duty contacts.

Six changeover heavy duty contacts:

Operating time: Pick up: < 15 m Sec

Drop out: < 4 m Sec

Contact material: AgCdO Contact gap: 3 mm

Permanent current: 16A

Max peak current: 30 A for 1 Sec Breaking current capacity: At 125 V dc: 0.6 A

At 110 V dc: 0.8 A

Max. switching voltage: 250 Vdc, 400 V ac

For all contacts

Mechanical life: 10⁷ operations

Operating temperature: -20 °C to 70 °C
Storage temperature: -20 °C to 70 °C
Max operating humidity: 90% at ma x 40 °C
Insulation between input and output contacts: 6 KV
Dielectric strength between open contacts: 1.5 KV

Ambient altitude: < 2000 m

Although MRL TR01 relay needs power to operate with all facilities, but if its DC power is missed, it still trips when the trip digital input is excited.

There is an additional changeover contact for whatchdog, which changes its state during DC power missing.

It is strictly recommended to use the whatchdog contact to detect the relay DC power interruptions.