

Type: M3LS3

Load Sharing Relay

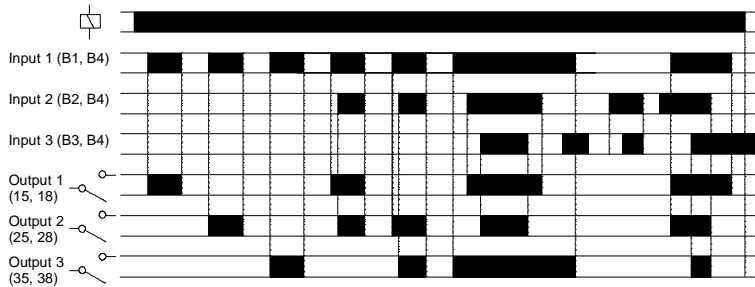
- ❑ 35mm DIN rail housing
- ❑ Controls the operation of up to three loads by alternating each one
- ❑ Allows all output relays to be energised when all input contacts are closed
- ❑ Requires 3 external N.O. volt free contacts (i.e. pressure switches, push buttons)
- ❑ Isolated supply
- ❑ 3 x SPNO relay output 5A
- ❑ LED indication of supply and output relay status

Dims:
to DIN 43880
W. 35mm



Terminal Protection to IP20

FUNCTION DIAGRAM



INSTALLATION AND SETTING



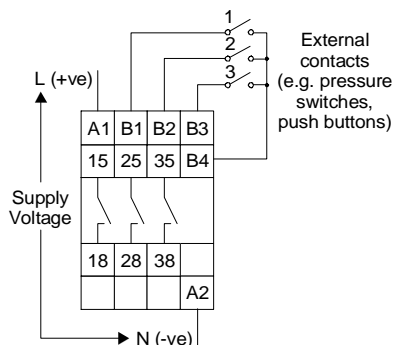
Installation work must be carried out by qualified personnel.

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as shown in the diagram below.
- Apply power (green LED on).
- The unit will operate according to the function diagram shown above. LED indication is provided to show the status of each relay. For example, if the contact across B1 and B4 is closed, then output 1 relay will energise. This is indicated by the red LED (marked "R1") being illuminated. If the same contact is opened (output 1 relay de-energises and LED "R1" extinguishes) and closed again, output 2 relay will energise. This is indicated by the red LED (marked "R2") being illuminated.

Troubleshooting.

- If the unit fails to operate, check the wiring is correct and the supply voltage is present and within the operating limits specified.

CONNECTION DIAGRAM



TECHNICAL SPECIFICATION

Supply voltage Un: 24, 110, 230, 400V AC 48 - 63Hz
 Supply variation: 85 - 115% of Un
 Isolation: Over voltage cat. III
 Rated impulse withstand voltage: 4kV (1.2 / 50µs) IEC 60664
 Power consumption: 6VA max.

Time delay:
 to energise relay: < 1Sec (from contact closure)
 to de-energise relay: < 1Sec (from contact opening)
 Reset time: ≈ 100ms
 Repeat accuracy: ± 0.5% @ constant conditions

Max. cable length: 50m (relay to external contacts)

Ambient temp: -20 to + 60°C
 Relative humidity: + 95%

Output: 3 x SPNO relay
 Output rating: AC1 250V AC 5A (1250VA)
 AC15 250V AC 4A
 DC1 25V DC 5A (125W)

Electrical life: ≥ 150,000 ops at rated load
 Dielectric voltage: 2kV AC (rms) IEC 60947-1
 Rated impulse withstand voltage: 4kV (1.2 / 50µs) IEC 60664

Housing: Orange flame retardant UL94 VO
 Weight: ≈ 120g
 Mounting option: On to 35mm symmetric DIN rail to BS5584:1978 (EN50 002, DIN 46277-3) Or direct surface mounting via 2 x 3.5 or 4BA screws using the black clips provided on the rear of the unit.

Terminal conductor size: ≤ 2 x 2.5mm² solid or stranded

Approvals: Conforms to IEC, CE and Compliant.

Options:

1. For other supply voltages, please consult the sales office.
2. For alternative time delays or functional configurations, please consult the sales office.

MOUNTING DETAILS

