

Terminal Protection to IP20

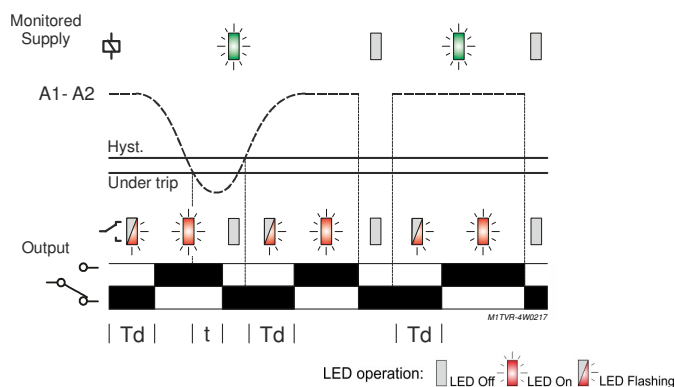
Dims: to DIN 43880  
W. 17.5mm



- Red LED flashes during restart delay period (Td) confirming supply is above the fixed trip level
- Meets DEWA regulations (Section 8.2)\*
- Temperature rating up to +60°C
- Monitors own supply and detects an Under voltage condition
- Fixed Under voltage trip level (75% of Un)
- Adjustable Time delay (5 – 10m)
- SPDT relay output 6A
- Green LED indication for supply status
- Red LED also used for relay status
- Compact 17.5mm DIN rail housing



### FUNCTION DIAGRAM



### INSTALLATION AND SETTING

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the unit as required. The Connection Diagram below shows a typical installation, whereby the supply to a load is being monitored by the unit. If a fault should occur (i.e. fuse blowing), the relay will de-energise and assuming control of the external Contactor, de-energise the Contactor as well.



Installation work must be carried out by qualified personnel.

#### Applying power.

- Apply power and the green LED ① will illuminate. The relay will remain de-energised.
- Assuming the supply voltage is above the fixed trip level (plus hysteresis) the delay period (Td) will commence and the red LED ② will flash during this period.
- After the set delay has elapsed, the relay will energise and red LED ② remain on.

#### Setting the unit


- Set the "Delay (Td)" ③ adjustment as required.

#### Troubleshooting.

The table below shows the status of the unit during a particular condition.

Supply status	Green LED ①	Red LED ②	Relay
No supply	Off	Off	De-energised
Under voltage condition	On	Off	De-energised
Following supply loss or voltage returning > 75% of Un	On	Flashing	De-energised for delay period (Td)

### TECHNICAL SPECIFICATION

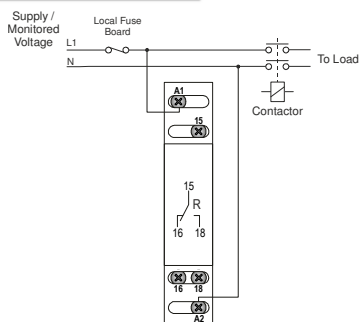
Supply/monitoring voltage	
Un (A1, A2):	230V AC
Frequency range:	48 – 63Hz
Supply variation:	70 – 110% Un
Overvoltage category:	III (IEC 60664)
Rated impulse withstand voltage:	4kV (1.2/50μs) IEC 60664
Power consumption (max.):	10VA @ 1.1 x Un
Monitoring mode:	
Under voltage	
Trip levels:	
Under:	75% of Un (Fixed)
Trip accuracy:	± 5%
Hysteresis:	≈ 2% of fixed trip level (factory set)
Response time (t):	< 150ms
Restart time delay (Td):	5 – 10m (± 5%)
Setting accuracy:	± 5%
Repeat accuracy:	± 0.5% at constant conditions
Reset time:	≈ 150ms
LED indication:	
Green LED (Power supply) Red LED (Relay/timing status)	
Ambient temperature:	
-20 to +60°C	
Relative humidity:	
+95% max.	
Output (15, 16, 18):	
SPDT relay	
Output rating:	AC1 250V 6A (1500VA)
	AC15 250V 5A (no), 3A (nc)
	DC1 25V 6A (150W)
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:	
Grey flame retardant UL94	
Weight:	
61g	
Mounting option:	
On to 35mm symmetric DIN rail to BS EN 60715 or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit.	
Terminal conductor size	
≤ 2 x 2.5mm <sup>2</sup> solid or stranded	
Terminal screw:	
M3 (Designed for use with PZ1 "pozi-driver")	
Tightening torque:	
0.6Nm Max.	
Approvals:	
Conforms to IEC, CE, UKCA,  and RoHS Compliant.	
EMC:	
Immunity: EN 61000-6-2 Emissions: EN 61000-6-4	

\* The following extract is taken from DEWA Regulations for Electrical Installations

### 8.2 UNDER VOLTAGE (U.V.) RELAYS WITH AUTO-RESET TIMER

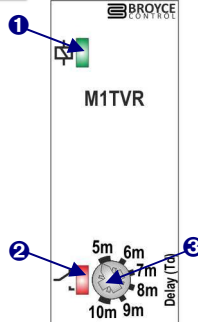
- 8.2.1 All air-conditioners or air-conditioning units/plants/equipment installed within the consumer's installation shall be provided with Under Voltage (U.V.) relays with fixed voltage cut off setting at 75% of the nominal supply voltage and auto-reset timer with adjustable time setting between 5 and 10 minutes.

### CONNECTION DIAGRAM



### SETTING DETAILS

- Supply status (Green) LED
- Relay output/timing status (Red) LED
- "Delay (Td)" adjustment



### DIMENSIONS

