Z-TRAUQ INC.

LMCCR-10A

Over/Under AC/DC Current Multi-voltage

Terminal Protection to IP20

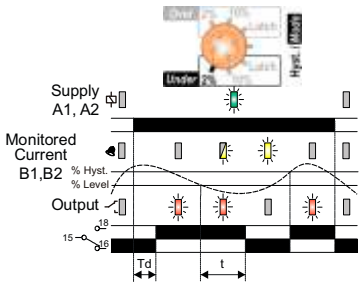
Dims: to DIN 43880 W. 17.5mm

- ☑ *NEW* 17.5mm DIN rail housing
- ☑ True R.M.S. monitoring
- ☑ Monitoring input 0.2 to 10A AC/DC in 3 selectable ranges
- ☑ Selectable Under or Over current monitoring
- ☑ Selectable hysteresis or latch option
- ☑ Adjustable trip level and time delay
- ☑ Isolated Auxiliary supply 24 – 230V AC/DC or 12 – 60V AC/ DC
- ☑ SPDT 8 amp relay output
- ☑ Green LED indication for supply status
- ☑ Red LED indication for relay status
- ☑ Yellow LED indication for alarm status

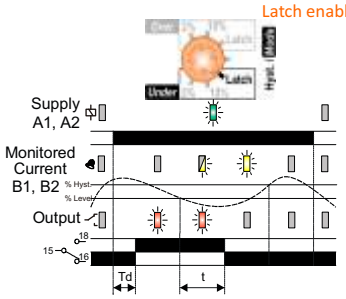
ISO 9001:2015 Cert. No. 14125772

FUNCTION DIAGRAMS

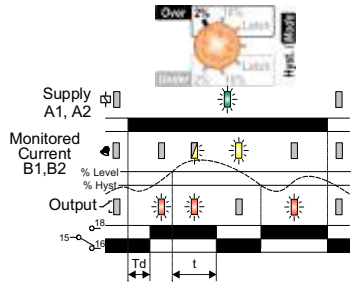
Under Current Monitoring



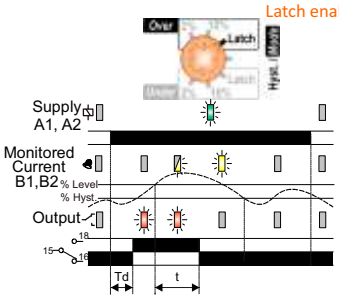
Latch enabled



Over Current Monitoring



Latch enabled



INSTALLATION AND SETTING

BEFORE INSTALLATION, ISOLATE THE SUPPLY.
Connect the unit as required.

Installation work must be carried out by qualified personnel.

Setting the unit.

Set the "Hyst. / Mode" selector ❼ to the required position depending whether under or over monitoring is required. Select either a suitable hysteresis setting of 2% or 10% or select Latch if required. Set the ❻ *Range* for the monitored input current. Set the *Power Up Delay* according to whether start up currents are likely in the application. Set the *Trip Level %* ❺ and *Delay* ❹ to suit the selected monitoring range and delay to tripping period.

Applying power.

Apply power and the green LED ❶ will illuminate.
If Under current mode is selected: Relay energizes & red LED ❸ illuminates if the current is above the set *Trip Level*. If the current falls below the *Trip Level*, yellow LED ❷ flashes for the set *Delay* then remains lit. Red LED extinguishes & relay de-energises.
If Over current mode is selected: Relay energizes & red LED ❸ illuminates if the current is below the set *Trip Level*. If the current rises above the *Trip Level*, yellow LED ❷ flashes for the set *Delay* and remains lit. Red LED extinguishes & relay de-energises.

TECHNICAL SPECIFICATIONS

Supply voltage U **(A1, A2)**		24 – 230V AC/DC or 12 - 60VAC/DC				
Frequency range:		48 - 63Hz AC supplies				
Supply variation:		AC: +15/-10% DC: +/-15%				
Overvoltage category:		III (IEC 60664)				
Rated impulse withstand voltage:		4kV (1.2/50µS) IEC 60664				
Power consumption (max.):		12V	24V	48V	115V	230V
	AC:	1.1VA	0.84VA	0.82VA	1.1VA	1.4VA
	DC:	0.8W	0.6W	0.47 W	0.46W	0.53W
Monitoring mode:		Under or Over current selectable				
Hysteresis:		2 or 10% selectable				
Latch		Enabled using Mode selector switch				
Monitoring ranges (AC/DC):		0.2 – 2A, 0.5 – 5A, 1 – 10A				
Trip level:		10 – 100% of selected monitoring range				
Time delay (t):		0.1 – 30S from fault occurring to relay de-energising				
Power up delay (T):		1 or 10 seconds				
Reset time:		100ms				
Accuracy:		± 1% of maximum full scale				
Adjustment accuracy:		< 5% of maximum full scale				
Repeat accuracy:		± 0.5% at constant conditions (IEC 61812)				
Drift with temperature:		± 0.05% / °C				
Drift with voltage:		± 0.2% / V				
Monitoring input **(B1, B2)**:		0.01 to 12A AC/DC				
Frequency:		AC 48 – 70Hz				
Maximum input rating		1.2 x 10A				
Overload:		20A for 1s				
Overvoltage category:		III (IEC 60664)				
Rated impulse withstand voltage		4kV (1.2/50µS) IEC 60664				
Power on indication:		Green LED				
Alarm status indication:		Yellow LED				
Relay status indication:		Red LED				
Ambient temp:		-20 to +60°C				
Relative humidity:		+95%				
Output:		SPDT relay				
Output rating:		AC1		250V 8A (2500VA)		
		AC15		250V 5A (no), 3A (nc)		
		DC1		25V 10A (200W)		
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				
Weight:		≈ 63g				
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 2.5mm² solid or stranded				

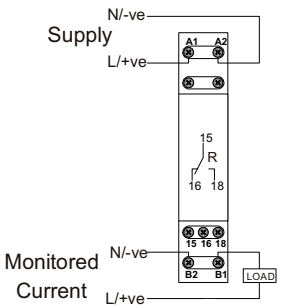
Approvals:

c UL us LISTED IND. CONT. EQ. E111187

Conforms to IEC 61812.
CE, C-tick and RoHS Compliant.
EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz). Emissions: EN 61000-6-4

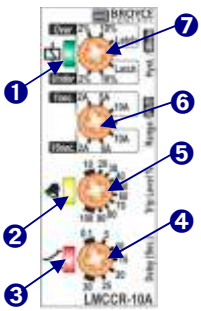
The Information provided in this literature is believed to be accurate (subject to change without prior notice); however, use of such information shall be entirely at the user's own risk.

CONNECTION DIAGRAM



SETTING DETAILS

1. Power supply status (Green) LED
2. Alarm status (Yellow) LED
3. Relay output status (Red) LED
4. Time delay adjustment
5. Trip level adjustment
6. Power up delay / Monitoring range selector
7. Hysteresis / Mode selector



DIMENSIONS