

Type: LMCCR-2A

Multifunction, Combined Current Relay

Terminal Protection to IP20

43880



NEW 17.5mm DIN rail housing

- \Box Microprocessor based
- \Box True R.M.S. monitoring
- Monitoring input (0.02 - 2A) split in to 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)
 - 1 x SPDT relay output 8A
- Green LED indication for supply status
- Yellow LED indication for alarm status \Box
 - Red LED indication for relay status

Wiring Information and Product Demonstration Videos can also be found on our YouTube channel

https://www.youtube.com/user/BroyceControlLtd

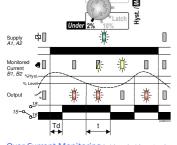


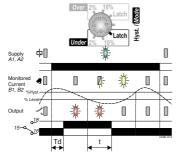




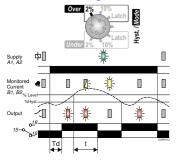
Under Current Monitoring (with and without Latch enabled)

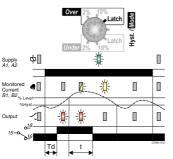
FUNCTION DIAGRAMS





Over Current Monitoring (with





Installation work must be carried

out by qualified personnel.

INSTALLATION AND SETTING

- BEFORE INSTALLATION, ISOLATE THE SUPPLY.
- Connect the Auxiliary and Monitored Inputs as required

Setting the unit.

- Set the "Hyst. / Mode" selector **7** to the required position depending whether under or over monitoring is required. Select either a suitable hysteresis setting of 2% or 10% or choose Latch if required.
- Set the "Range" 3 to the required position (depending on monitored input current to be monitored). Set the "Power Up Delay" according to whether start up currents are likely in the application.
- Set the "Trip Level %" 6 and "Delay" 4 to suit the selected monitoring range and delay to tripping period.

HS Code: 85364900

Country of Origin: UK

- Apply power and the green LED 1 will illuminate.
- If Under current mode is selected:
- Relay energises / red LED 3 illuminate if the current is above the set "Trip Level". If the current falls below the "Trip Level", yellow LED 2 flashes for the set "Delay" then remains lit. Red LED extinguishes / relay de-energises. If Over current mode is selected
- Relay energises / red LED 🔞 illuminate if the current is below the set "Trip Level". If the current rises above the "Trip Level", yellow LED 2 flashes for the set "Delay" then remains lit. Red LED extinguishes / relay de-energises

TECHNICAL SPECIFICATION

Hysteresis:

Auxiliary supply voltage U (A1, A2):		24 – 230V F	AC/DC		
Frequency range:		48 - 63Hz (AC supplies)			
Supply variation:		+15%/ - 109	%		
Overvoltage category:		III (IEC 60664)			
Rated impulse withstand voltage:		4kV (1.2/50μS) IEC 60664			
Power consumption (max.):		24V	48V	115V	230V
	AC:	0.84 VA	0.82 VA	1.1 VA	1.4 VA
	DC:	0.6 W	0.47 W	0.46 W	0.53 W
Monitoring mode:		Under or O	ver current (sel	ectable)	

2 or 10% (selectable) Enabled using Mode selector switch

4kV (1.2/50µS) IEC 60664

277V/480VAC

Monitoring range	es:	0.02 - 0.2A, 0.1 - 1A, 0.2 - 2A		
Trip level:		10 - 100% of selected monitoring range		
Time delay (t):		0.1 – 30S (from fault occurring to relay de-energising)		
Power up delay (Td):	1 or 10 seconds		
Reset time:		100mS		
Accuracy:		± 1% of maximum full scale		
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< 5% of maximum full scale ± 0.5% at constant conditions ±0.05%/°C Drift with temperature Drift with voltage: $\pm 0.2\% / V$ Monitoring input (B1, B2) 0.01 to 2.4A AC/DC

Frequency: DC, 48 - 70Hz Maximum input rating: 1.4 x 2A Overload: 5A for 1s Overvoltage category: Rated impulse withstand voltage III (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% SPDT relay Output (15, 16, 18): AC1 AC15 Output rating

Flectrical life: ≥ 150.000 ops at rated load Dielectric voltage 2kV AC (rms) IEC 60947-1 4kV (1.2/50μS) IEC 60664

Grev flame retardant UL94 VO Housing 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 \leq 2 x 2.5mm 2 solid or stranded

Approvals:

Max. system/network voltage:

CUL) US LISTED IND. CONT. EQ.

CE, UKCA and RoHS Compliant EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz)

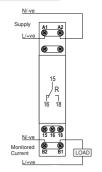
250V 10A (2500VA)

25V 10A (250W)

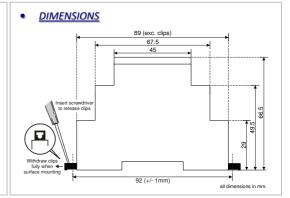
250V 5A (no), 3A (nc)

Emissions: EN 61000-6-4

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 selecto 7. Hysteresis / Mode selector



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