### L5110 L5210

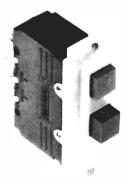
Cuts-outs

L5111 L5411 L5511

L5211

Miniature Circuit Breakers





Series L5400 and L5500

Series L5100 and L5200

These robust, precision devices combine circuit protection, switching and indication in a single compact unit. L5110, L5111 and L5411 operate thermally on moderate overcurrent. L5210, L5211 and L5511 incorporate a magnetic coil which takes charge when large fault currents occur (above 6-10 times rated current), tripping the mechanism in milli-seconds.

L5411 and L5511 have an attractive front flange plate suitable for front or rear panel mounting.

These units restore a circuit rapidly after faults have been cleared. However, the action is 'trip-free', i.e. a circuit cannot be held closed by the 're-set' button while faults exist.

L5110 and L5210 do not incorporate a 'trip' button and, unlike the circuit breakers, cannot be used to open the circuit manually.

Selection of ratings: The specified rating is determined at a nominal ambient temperature of 20°C. Ambient temperature variants will, however, affect performance. At lower temperatures the rating may be increased and at higher temperatures decreased and it is prudent to allow for this variation.

All cut-outs and circuit breakers can be supplied without signalling contacts, but are subject to minimum ordering quantities of each type/ rating.



Tripping times:	At 1,5 × In <5 min.		
thermal:			
thermal magnetic:	At $5.5 \times \ln < 7s$ .		
thermarmagnetic.	_At 15 × In d.c. < 10ms.		
Breakdown voltage:			
Dicardown voltage	>6kV between linked terminals and		
	metal panel.		
Working voltage:	275 V a.c. rms 60 V d.c. (maximum)		
Insulation resistance:	_Rating	Nominal	Tol.
(typical)	0,3A	9,2 ohm	±16%
	0,5A	3,3 ohm	±16%
	0,7A	1,8 ohm	±16%
	1A	0,9 ohm	±16%
	2A	0,12 ohm	±16%
	3A	80 milliohms	±16%
	5A	50 millionms	±16%
	10A	26 millionms	±16%
	10A	10,5 millionns	±20%
Temperature range:	- 55°C	10.1111110111118	±30 70
Signalling contacts:	00 0 to 1 10 0 (ambient)		
olghaning contacts.	Maximum rating 1A at 250 V a.c. or 50 V		
	d.c. substantially non-inductive.		
Maximum wire size:	7/0,85 mm		
Panel Mounting L5110 L5111 L5210	These units are panel mounted by		
L5211:	_means of a central threaded boss.		
	Maximum panel thickness 4 mm.		
L5411 L5511:	mounting by means of the pre-drilled		
	front flange plate. The flange plate on		
	each unit is provided with two counter- bored holes of 3,6mm diameter.		
	Maximum panel thickness (rear of panel)		
	5mm.		
	3		

#### For drawings and dimensions, please see P. 45

## Ordering reference Thermal:

L5110 Cut-out with signalling contacts.
L5111 Circuit breaker with signalling contacts.
L5411 Circuit breaker with signalling contacts with flange plate for front or rear panel mounting.

### Thermal magnetic:

L5210 Cut-out with signalling contacts.
L5211 Circuit breaker with signalling contacts.
L5511 Circuit breaker with signalling contacts with flange plate for front or rear panel mounting.

# **Circuit Protection**

