



Wiring Chilli Dimmers Single Phase

As supplied, all Chilli 12 and 24 channel 10A/16A dimmers are configured for three-phase star operation. This Technical Update describes how to reconfigure the Chilli 12 and 24 channel 10A/16A dimmers for single phase operation. It does not cover the 6x25A and 12x25A units.

The total load capability of the dimmer is reduced if it is wired single phase, and it is the responsibility of the installer to provide the specified current limiting protection on the incoming supply.

Cooper Controls Ltd does not supply parts for this conversion, however they can be easily obtained from most electrical wholesalers.

WARNING

These instructions are intended to facilitate modification of a Chilli dimmer prior to installation. If the dimmer has already been installed, then any connected mains supplies must be isolated and removed before proceeding.

Hazardous Voltages inside – isolate any connected mains supplies before removing any covers.

Servicing of equipment **MUST** be undertaken by appropriately qualified persons only.

The Company cannot accept responsibility for repairs or modifications that are not competently executed and in accordance with service or upgrade information.

Before starting work, please read these instructions carefully.

Cooper Controls Ltd reserves the right to make changes to the equipment described in this manual without prior notice.

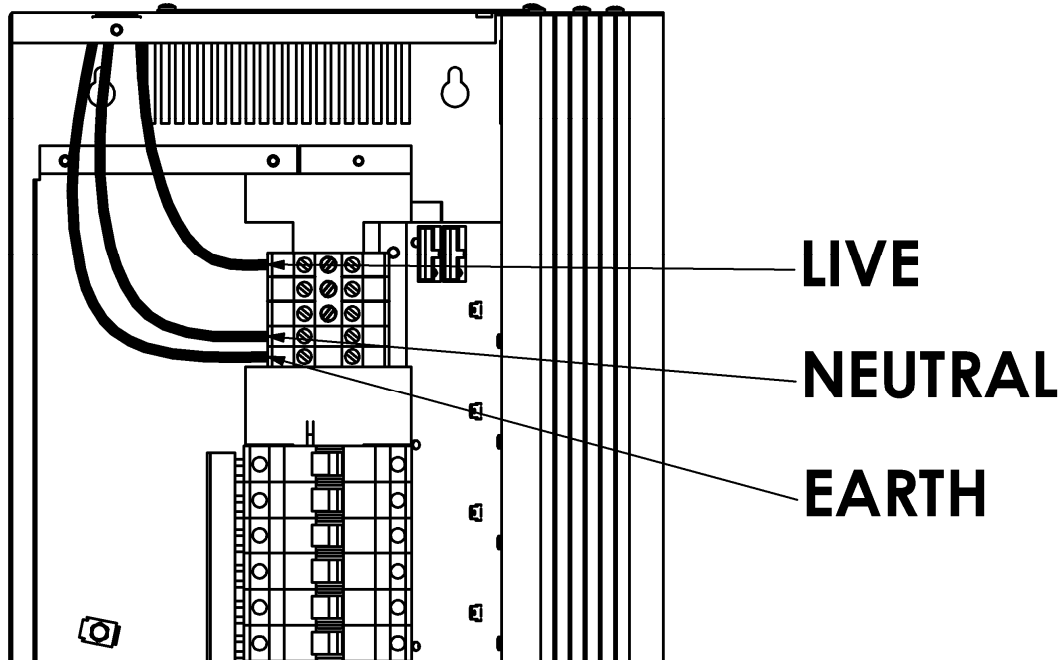
This equipment is designed for professional lighting control, and is unsuitable for any other purpose. It should be used by, or under the supervision of, appropriately qualified or trained persons only. Servicing of this equipment should be attempted by suitably qualified persons only. E & OE

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1. Chilli 12 Dimmer – No RCD

Parts required: Weidmuller WQV 16N/3 (x1)
Incoming Supply to be limited to: 57A

- Remove the front cover from the dimmer (refer to manual for details).
- Fit the shorting bar to the terminals marked L1, L2, L3.
- Ensure that a current limiting device is fitted to the supply to the specification above.
- Connect the incoming supply as shown in the drawing below:



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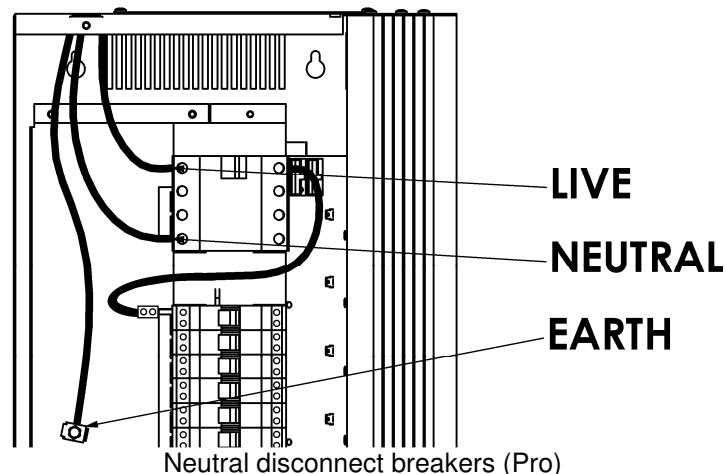
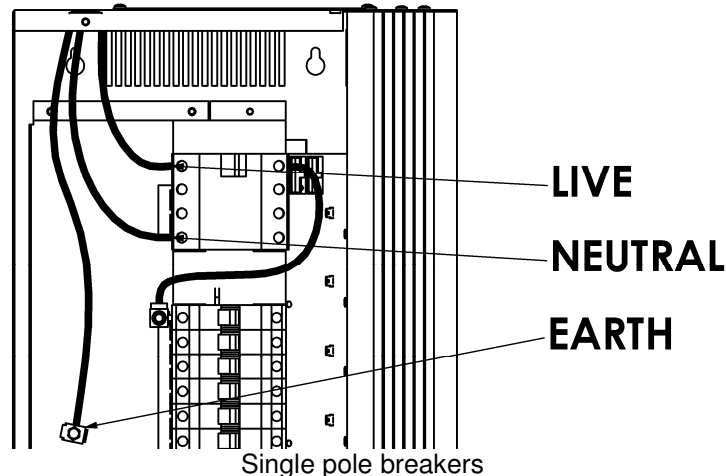
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2. Chilli 12 Dimmer – With RCD

Parts required: Hager K171UK (x1 strip)
Hager KZ021 (x4)

Incoming Supply to be limited to: 40A (Chilli 1210i units)
75A (Chilli 1216i units)

- Cut sections 3-prongs and 12-prongs long from the Hager K171UK Busbar, and fit the end-caps.
- Remove the front cover from the dimmer (refer to manual for details).
- Remove the three-phase busbar from the 12 breakers and discard. Leave the neutral busbar in place.
- Remove the L2 and L3 cables from the RCD (terminals 3 & 5) to the breakers and discard. Leave the neutral cable in place.
- Fit the cut 12-prong Busbar to the 12 breakers. Take care when re-tightening the breaker screws to include the L1 cable from the RCD (terminal 1), and the three looms to the transformer PCB.
- Fit the cut 3-prong Busbar to the RCD (terminals 4, 6 & N).
- Ensure that a current limiting device is fitted to the supply to the specification above.
- Connect the incoming supply as shown below:



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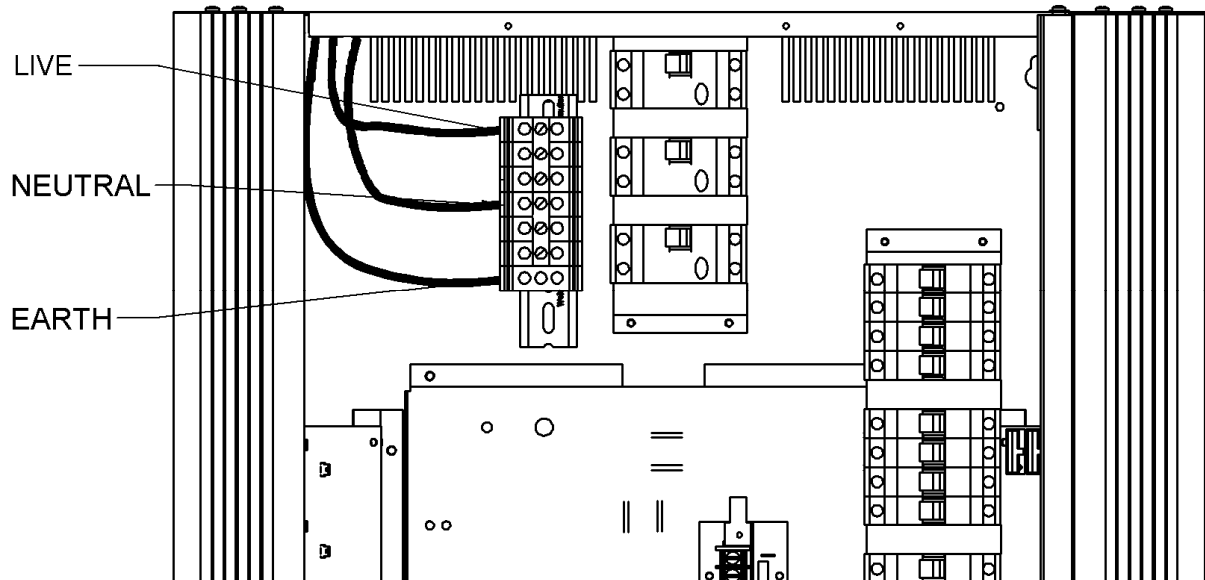
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3. Chilli 24 Dimmer – With or without RCD

Parts required: Phoenix Contact FBI3-15 (x1)
Incoming Supply to be limited to: 100A

- Remove the front cover from the dimmer (refer to manual for details).
- Fit the shorting bar to the terminals marked L1, L2, L3.
- Ensure that a current limiting device is fitted to the supply to the specification above.
- Connect the incoming supply as shown in the drawing below:



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