

BLE Smoke & Fire Curtains

SPECIFICATION - MOTOR CONTROL CIRCUIT (MCC)

OVERVIEW

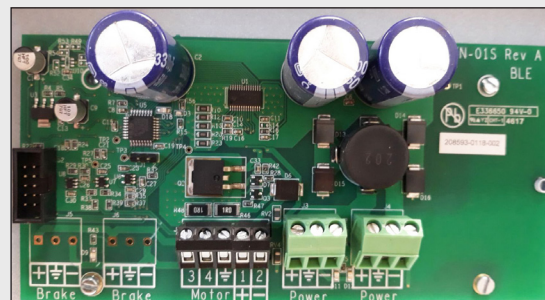
A Standard or Multi-Function Group Control Panel (GCP) is used in conjunction with Standard or Multi-Function Motor Control Circuits (MCC) to operate up to 6N^o 24V DC motors to control the deployment and retraction of the curtains.

The BLE powertrain comprises of a 24v DC motor & motor control circuit. The control circuit enables each motor to lift a weight of 18kg whilst still meeting the cycle tests as required by EN12101, EN1634 and Annexe D of BS8524.

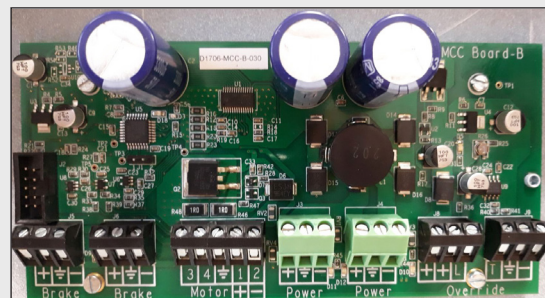
The MCC is housed in a remote enclosure to aid maintenance engineers. Access is readily available to the control circuit, removing the need to extract the motor from the curtain roller.



STANDARD MCC



MULTI-FUNCTION MCC



IMPROVED FEATURES

- Firmware Control:** Current sensing and stall detection are managed by software.
- Soft Start Up:** Curtains are initially raised at a slower speed before reaching normal speed.
- Soft Start Descent:** Curtains are initially dropped at a slower speed before reaching normal speed.
- Soft Stall:** Immediate stall & sensitivity to stall.
- Additional LEDs:** Curtain up LED, Stall LED, Fault LED, Override LED, Power LED & Override Power LED.
- Noise Immunity:** Additional filters to reduce interference.
- Surface Mount (component availability):** To avoid component obsolescence.
- Extra Terminal Block:** MCC supply loop & brake.

SMOKE & FIRE



THE LEADING EDGE IN Smoke & Fire Curtains
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PRODUCT PERFORMANCE

Controlled curtain descent - Back electromotive force (EMF) of the curtain motor ensures the controlled gravity fail safe deployment of the curtains.

Current controlled ascent - When the curtain has fully retracted the motor voltage is reduced. No limit switches are required.

127 motor control - Larger 127mm diameter rollers/motors can be used for large/heavy curtains. A maximum of 3 x 127 motors can be controlled by a single GCP.

Individual Override Interface - Manual Override Interface - Manual override for an individual curtain on a GCP loop that contains multiple curtains. The period of time the curtain remains raised after the IOI is activated can be controlled from 0-120 seconds.

Option comparison between Motor Control Circuits

Feature	Standard MCC	Multi-Function MCC
Controlled curtain descent	Yes	Yes
Current controlled ascent (no limit switches)	Yes	Yes
Two stage descent facility (requires brake motor)	No	Yes
Larger 127mm motor control facility	No	Yes
Individual Override Interface (requires push button)	No	Yes

MCC SPECIFICATION

Input voltage	27Vac / 24Vdc
Output voltage	24Vdc
Dimensions and finish	White painted mild steel enclosure 145mm High x 250mm Wide x 50mm Deep

WARRANTY

A manufacturer's warranty is provided for a period of one year. Exclusions may apply if any element is sublet to an unauthorised party.

CONTACT

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