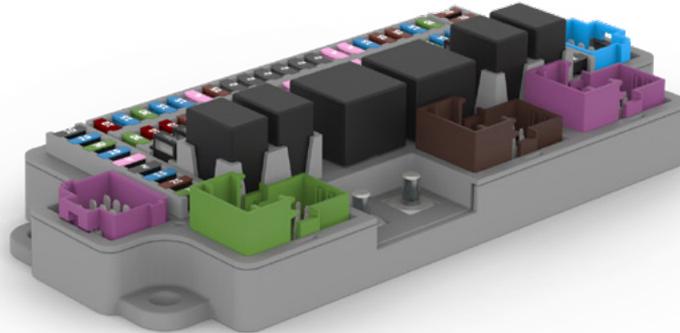


C-MEC 138



GENERAL DESCRIPTION

C-MEC 138 is a configurable Cabin-Modular Electrical Center developed mainly for agriculture, construction, heavy duty and off-road applications.

The C-MEC 138 is designed for installation in the cabin, it features a PCB made with press-fit and a high level of customization.

It is ideal for new applications and for those who already use the MTA 5-way frame, with which it is perfectly interchangeable.

C-MEC 138 features:

- different MTA off-the-shelf modules can be put together in this unit;
- quick and easy to install vertically or horizontally;
- simplified wiring harness routings;
- easy to connect;
- easy serviceability.

SPECIFICATIONS

Input/output connections

Bolt-in studs M6

Power supply voltage

12 Vdc and 24 Vdc

Current rate

To be evaluated according to customers' requests

Output connectors AMP MCP un-sealed

3-way TE, 15-way TE, 36-way TE

Fixing points torque

6 Nm \pm 10% (M6 screws)

Flammability

<100 mm/min (ISO 3795)

Operating temperature range

-40 °C to +85 °C

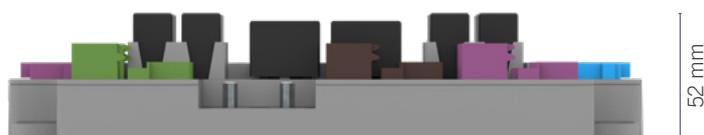
Ingress protection rating

IP20

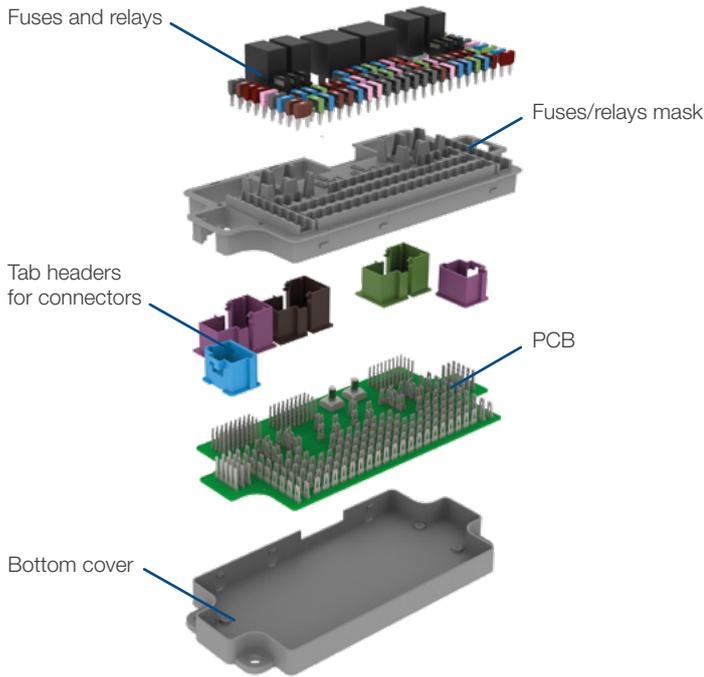
Weight

1 kg

DIMENSIONS



EXPLODED VIEW



PCB ASSEMBLY: PRESS-FIT TECHNOLOGY

All components are assembled on the PCB top side with the press-fit technology.

The press-fit is an innovative solderless connection technology. In this process the contact between the press-fit pin and the wall of the hole is gas-tight and it is characterized by good conductivity and high mechanical resistance. The condition is that the press-fit pin has a bigger dimension than the hole diameter on the PCB and this interference guarantees a highly conductive bond.

Advantages compared to conventional soldering:

- No need for additional washing.
- No thermal load on the PCB or electronic components.
- Quick and economic insertion of the PCB.
- Double-sided insertion of the circuit board.

CUSTOMIZATION LEVELS

There are 3 customization levels: Soft, Medium and High, where: ✓ means “customizable component”, — means “default component”.

NOTE: supply status could be with or without fuses and relays (according to customers' requests).

SOFT

Fuses and relays	✓
Type and number of contents (mask)	—
PCB	—
Connectors	—

MEDIUM

Fuses and relays	✓
Type and number of contents (mask)	—
PCB	✓
Connectors	—

HIGH

Fuses and relays	✓
Type and number of contents (mask)	✓
PCB	✓
Connectors	✓