



UK Electric Vehicle Installer Guide

For EV Installers

At IMO we see the future in EV. That's why we have an extensive range of products for EV installers from small domestic installations to multiple charger commercial installations. From the latest technology RCD's specifically designed for use in EV applications to class leading surge protection devices, IMO has the solution for your installation.

It is important to select the right products for your EV charger installation and IMO have products suitable for all models of EV chargers, from all manufacturers. EV market regulations are developing rapidly and if you are unsure of what device to use, please get in touch with one of our technical team today.

Type B RCDs

Suitable for all EV charger installations, a Type B RCD must be used on EV charger installations where the charger does not have internal DC fault protection. If in doubt, fitting a Type B RCD will cover all charger types regardless of any fault detection built in. All IMO Type B RCD's are supplied in accordance with IEC 61008-1 & IEC 62423.



Available Parts

Part Number	Description
B10R2040-30-B	Type B RCD, 10kA, 30mA, 1P+N, 40A
B10R4040-30-B	Type B RCD, 10kA, 30mA, 3P+N, 40A
B10R2063-30-B	Type B RCD, 10kA, 30mA, 1P+N, 63A
B10R4063-30-B	Type B RCD, 10kA, 30mA, 3P+N, 63A

Type A RCBOs

Residual Current Circuit Breakers with Overcurrent Protection combine the functions of an MCB and RCD to provide all-round protection in a compact package. Suitable for use with charge points that have internal DC fault detection built in. Supplied in accordance with IEC 60898-1.



Available Parts

Part Number	Description
B6CR1N40-30-A	Type A RCBO, C Curve, 1 Pole+N, 40A, 10kA, 30mA

MCBs

Miniature Circuit Breakers protect from over-current and short circuit situations to safeguard charger installations and users. MCB's should always be used alongside an RCD. Supplied in accordance with IEC 60898-1.



Available Parts

Part Number	Description
BR6B1040A	MCB, B Curve, 1 Pole, 40A, 6kA
BR6B1063A	MCB, B Curve, 1 Pole, 63A, 6kA
B10C1040A	MCB, C Curve, 1 Pole, 40A, 10kA
B10C1063A	MCB, C Curve, 1 Pole, 63A, 10kA

Know Your RCDs

Did you know RCD's (Residual Current Devices) also known as RCCB (Residual Current Circuit Breakers) come in various "types" for different applications. To quickly identify an RCD you can look for the following sine waves on the front of an RCD. All IMO RCD's are clearly marked for quick identification...



Type AC
(AC Only)



Type A
(AC & Pulsating DC)



Type B
(AC, Pulsating DC, Smooth DC & High Frequency AC)



Enclosures

Complete range of metal enclosures for integration with EV wall charger units. Saving space by keeping the additional RCD external to the consumer unit.



Available Parts

Part Number	Description
DBM2-02W	Mini Enclosure, 2 Way, 146x80x90mm
DBM2-04W	Std Enclosure, 4 Way, 235x140x115mm
DBM2-04W-NL	Same as DBM2-04W above with Neutral Link
DBM2-04WM	Slim Enclosure, 4 Way, 175x110x71.5mm

Surge Protection Devices

Surge protection devices offer additional protection against transient overvoltages that can damage electrical devices. IMO's range of SPD's come with a plug-in replacement cartridge system. Suitable for all installation types.



Available Parts

Part Number	Description
SPDS-201N	Compact 1P+NPE, IMAX 20kA, 275VAC
SPD2-201N	Standard 1P+NPE, IMAX 20kA, 275VAC
SPD2-401N	Standard 1P+NPE, IMAX 40kA, 275VAC
SPD4-203N	Standard 3P+NPE, IMAX 20kA, 275VAC
SPD4-403N	Standard 3P+NPE, IMAX 40kA, 275VAC

IMO

Also available from IMO...

- Complete range of Cable Glands
- Market-leading AC & DC Rotary Isolators
- ABS & Polycarbonate Enclosures
- Extensive range of DIN Rail terminals



Also available from leading wholesale trade stockists including:

IMO Precision Controls Limited

The Interchange
Frobisher Way
Hatfield, Herts AL10 9TG
United Kingdom

Tel: 01707 414 444

Email: imo@imopc.com

Web: www.imopc.com



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latest news, views and reviews



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