Merlin Gerin

Shielded Heavy Duty Cutout

Low voltage indoor distribution switchgear
Merlin Gerin
Shielded Heavy Duty Cutout, with improved safety and reliability

Merlin Gerin Shielded Heavy Duty Cutout goes one step further than traditional cutouts, giving greater operator protection to IP2X, using proven shielded fusegear technology and additional safety and operational features through segregated, flame retardant phase termination mouldings.

Both in commercial and industrial building applications, Shielded Heavy Duty Cutout can provide the solution for your electrical distribution system.
Making the circuit live in seconds without the use of insulated tools.

Benefits

Safety
The operator is protected to IP2X from live conductors as the cutout incorporates segmented phase termination modules and the ‘through grip’ fuse handle on fuse carriers.

Reliability
The cutout withstands all interior working conditions in both temperate and tropical climates, using established Merlin Gerin technology.

Ease of use
Phase termination modules are individually segregated, making it easy to remove and have easy access to top and bottom cable terminations. Rapid cable termination can be achieved by cable lug or mechanical connector.

Time saving
It is possible to make a circuit live in seconds, as the shielded fuse carriers dispense with the need for tools to change the fuselink.

Space saving
The cutout is easy to locate and fit into a small space because of its compact and modular design.

Total Public safety
The unit can be fitted in areas used by the general public, as it conforms to IP4X.

Customised to your needs
Customer’s individual requirements can be accommodated by the use of the additional accessories.
Understanding the features

**Shielded fuse handles**
A major development in safety, the shielded fuse handle, when in circuit, provides protection from live conductors, even when the front cover is removed. The ‘through grip’ handle on the fuse carrier allows for easy manual load making and breaking.

**Convenient wall mounted unit**
The cutout is a durable common base moulding with two M10 external fixing holes for simple fitting to a wall.

**Compact indoor solution**
The compact design is only 300mm high x 425mm wide and weighs approximately 10kg. With IP4X rating it can be installed in areas accessible by the general public.

**Insulated, sectionalised circuits**
The fully insulated design eliminates the need for direct earthing of the cutout enclosure, thereby facilitating flexibility in system earthing. However earthing for PME systems is available as an option, see the Selection Guide at the back of this brochure. Individual fully insulated phase and neutral moulded modules allow for adaptability in installation, and prevent failures between adjacent units.

**Ratings**
400A and 630A rated designs.

**Fuse carriers**
Fuse carriers accept standard BS88 part 5 fuselinks.

**Padlocking**
The front cover can be fastened with a seal or padlock to secure access to the fuse carriers and the cable terminations.

**Testing**
The neutral link allows for easy disconnection of neutral for testing.

**Industry safety standards**
EATS 37-2, BSEN 60947-3, EN 60439, BSEN60529

**Quality Assurance**
All cutouts are manufactured in accordance with ISO9001.

**Environmental Certification**
Compact indoor solution

The product incorporates...
Wide range of cable termination options and accessories

**Incoming/outgoing supply**
Each phase and neutral allows access at either top or bottom with adjacent circuits live. The termination of cables allow for ring or radial systems, single or multi-core cables, aluminium or copper conductors.

**Cable space**
The common base moulding allows for ample cable space for up to 2 x 300mm² cables per termination.

**Top and bottom connection terminations**
Mechanical cable clamps are available for a wide variety of cable types up to 300mm². There is no need for crimping gear or to check the torque of termination. The double headed shear bolt ensures joints can be disconnected.

**Cable box**
Provides protection for cables against mechanical damage and provides access for two cables from below and two at a 45 degrees angle.

**LV Ring link module**
Security of supply can be increased with the addition of the LV ring module that includes a link system enabling open point(s) to be selected to suit supply arrangements or isolate faulted cables. Link status is clearly visible and test probe access to terminations means the front cover need not be removed.

**Neutral Termination**
Neutral Option 1
Neutral Option 2
Neutral Option 3
Neutral connection
Neutral earth
Neutral earth link
Selection guide

**Quantity of identical Shielded Heavy Duty Cutouts**

Compose your own reference

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**Neutral termination**

Neutral earth (1x removable link) N1
Neutral earth (2x removable links) N2
Neutral connection N3

**Fuse carrier**

With fuse handles YW
Without fuse handles OW

**Cable box**

With cable box CB
Without cable box OB

**LV ring link module**

With LV ring link box TP&N LB
Without LV ring link box OB

**Top connection termination**

Cable lug* M12 (*not supplied) max. 2 x 300mm² T1
Mechanical connector max. 1 x 300mm² T2
Mechanical connector max. 2 x 300mm² T3
Brass block max. 1 x 300mm² + 2 x 150mm² T4

**Bottom connection termination**

Cable lug* M12 (*not supplied) max. 2 x 300mm² B1
Mechanical connector max. 1 x 300mm² B2
Mechanical connector max. 2 x 300mm² B3
Brass block max. 1 x 300mm² + 2 x 150mm² B4

**Top connection grommet**

Upto 1 x 300mm² TG2
Upto 1 x 300mm² + 2 x 150mm² TG3

**Bottom connection grommet**

Upto 1 x 300mm² BG2
Upto 1 x 300mm² + 2 x 150mm² BG3

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**General technical specification**

<table>
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<tr>
<th>SCHD</th>
<th>Rated insulated voltage (V)</th>
<th>Rated operational voltage (V)</th>
<th>Maximum rating (A)</th>
<th>Circuit</th>
<th>Degree of protection - normal service BSEN 60529</th>
<th>Degree of protection - front cover removed BSEN 60529</th>
<th>Type of fuse links - &quot;J&quot; Type BS88 part 5 centres (mm)</th>
<th>Range of fuse links (A)</th>
<th>Max. cable per phase - option</th>
<th>Dimensions</th>
<th>Weight (Kg)</th>
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<tr>
<td></td>
<td>660</td>
<td>660</td>
<td>415</td>
<td>415</td>
<td>IP4X</td>
<td>IP4X</td>
<td>93</td>
<td>20-630</td>
<td>Any option for incoming</td>
<td>Height (mm)</td>
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<td>630</td>
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<td>or outgoing terminations</td>
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<td>Cable box (mm) increase height by</td>
<td>450</td>
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Please note: For other options outside of those covered in the above table please contact the customer services department 01723 502800.
Schneider’s local support

Schneider is committed to supporting its customers at every stage of a project. Our 180 sales engineers, the largest dedicated sales force in the UK electrical industry, operate from 4 customer support centres.

Our sales engineers are skilled at assessing individual requirements and combined with the expert support of our product specialists, will develop the most effective and economical answer taking relevant regulations and standards fully into account.

To access the expertise of the Schneider group, please contact your local customer support centre. Each centre includes a product showroom for demonstrations and training, and presentation rooms fully equipped with audio visual and video, providing excellent meeting facilities.

Regional product showrooms

<table>
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<th>Midlands</th>
<th>North</th>
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<tbody>
<tr>
<td>University of Warwick Science Park, Sir William Lyons Road, Coventry, CV4 7EZ. Tel: 01952 290029 Fax: 01952 290534</td>
<td>123 Jack Lane, Hunslet, Leeds, LS10 1BS. Tel: 01952 290029 Fax: 01952 290534</td>
</tr>
<tr>
<td>Email Address: <a href="mailto:midlands@schneider.co.uk">midlands@schneider.co.uk</a></td>
<td>Email Address: <a href="mailto:northern@schneider.co.uk">northern@schneider.co.uk</a></td>
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Local customer support centres

<table>
<thead>
<tr>
<th>Scotland</th>
<th>North West</th>
<th>South West</th>
<th>Greater London</th>
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<tr>
<td>Unit 1100, Academy Business Park, Gower Street, Glasgow, G51 1PR. Tel: 0141 419 3300 Fax: 0141 419 3323 Email Address: <a href="mailto:scotland@schneider.co.uk">scotland@schneider.co.uk</a></td>
<td>8 Brindley Road, City Park Business Village, Cmbrook, Manchester, M18 9HQ. Tel: 0161 877 0424 Fax: 0161 877 0410 Email Address: <a href="mailto:northem@schneider.co.uk">northem@schneider.co.uk</a></td>
<td>190 Park Avenue, Aztec West, Almondsbury, Bristol, BS12 4SS. Tel: 01454 628000 Fax: 01454 628010 Email Address: <a href="mailto:southwest@schneider.co.uk">southwest@schneider.co.uk</a></td>
<td>33 Golden Square, London, W1R 3PA. Tel: 0171 440 2400 Fax: 0171 440 2424 Email Address: <a href="mailto:southeast@schneider.co.uk">southeast@schneider.co.uk</a></td>
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Schneider - expertise in electrical distribution, industrial control and automation

Schneider is the leading UK and world expert in the development and manufacture of products for the distribution and industrial applications of electricity. In the UK, Schneider operates from 15 industrial and commercial sites, providing employment for 2,500 people, and achieves an annual turnover in excess of £270 million.

With its brands, Merlin Gerin, Modicon and Telemecanique, Schneider offers a full range of products and services for panel builders, OEMs, contractors, specifiers and the electrical supply industry for commercial and industrial applications.

Merlin Gerin is one of the foremost experts of electrical distribution products and systems. Its comprehensive array of extra-high, medium and low voltage products and systems is designed to manage and protect electrical installations, ensure safety and provide power supply reliability and continuity. Modicon is a leading manufacturer and marketer of high technology programmable controllers (PLCs) and motion control systems used in industrial automation. Its international catalogue of products and services include PLCs, numerical controllers, specialised programming and software, field bus communication networks and interface terminals. Telemecanique is a UK market leader and world expert in industrial control and automation. It provides complete solutions, with its range of components, programmable logic controllers, variable speed drives and communications software. In addition, it offers power distribution through prefabricated busbar trunking.