

Merlin Gerin

Shielded Heavy Duty Cutout

Low voltage indoor distribution
switchgear



Merlin Gerin

Modicon

Telemecanique

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.





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.



*Making the circuit live
in seconds without
the use of insulated
tools.*

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

ISO 14001. Independently audited by Energy and Environmental Accreditation Quality Assessment EAQA for ISO9001 and ISO14001 management systems.

Compact indoor solution

The product incorporates'



Wide range of cable termination options and accessories



Incoming/outgoing supply

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.



Cable box

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



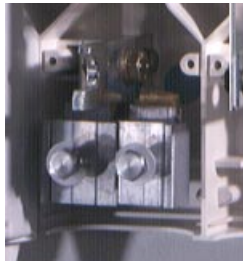
Cable lug

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.



Mechanical connector
1 x 300mm²



Mechanical connector
2 x 300mm²



Brass block



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



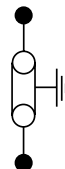
Neutral
Option 1



Neutral connection



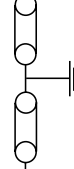
Neutral
Option 2



Neutral earth



Neutral
Option 3



Neutral earth link

Selection guide

Quantity of identical Shielded Heavy Duty Cutouts

Compose your own reference

Product base reference SCHD	Rating	Neutral	Fuse Carrier	Cable Box	LV Ring Link Module	Top Conn.	Btm Conn.	Top conn. Grommet	Btm conn. Grommet
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Rating

630A	6
400A	4

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 300mm ²	T1
Mechanical connector max. 1 x 300mm ²	T2
Mechanical connector max. 2 x 300mm ²	T3
Brass block max. 1 x 300mm ² + 2 x 150mm ²	T4

Bottom connection termination

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

Top connection grommet

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

Bottom connection grommet

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

General technical specification

		SCHD	
Rated insulated voltage (V)		660	660
Rated operational voltage (V)		415	415
Maximum rating (A)		630	400
Circuit		TP&N	
Degree of protection - normal service BSEN 60529		IP4X	IP4X
Degree of protection - front cover removed BSEN 60529		IP2X	IP2X
Type of fuse links - "J" Type BS88 part 5 centres (mm)		93	82.5
Range of fuse links (A)		20-630	20-400
Max. cable per phase - option	1. Cable lug 2 x 300mm ² 2. Mech. connector 1 x 300mm ² 3. Mech. connector 2 x 300mm ² 4. Brass block 1 x 300mm ² + 2 x 150mm ²	Any option for incoming or outgoing terminations	
Dimensions	Height (mm)	300	
	Width (mm)	425	
	Depth (mm)	235	
	Cable box (mm) increase height by	450	
Weight (Kg)		9.8	9.0

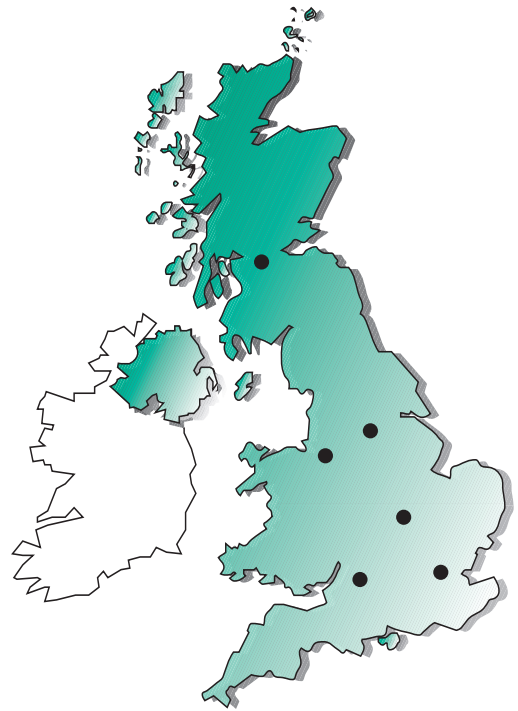
Please note: For other options outside of those covered in the above table please contact the customer services department 01723 502800.

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

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Local customer support centres

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Schneider - expertise in electrical distribution, industrial control and automation

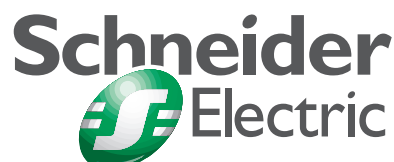
Schneider is the leading UK and world expert in the development and manufacture of products for the distribution and industrial applications of electricity. In the UK, Schneider operates from 15 industrial and commercial sites, providing employment for 2,500 people, and achieves an annual turnover in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



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