

h3+ Moulded Case Circuit Breakers

Guaranteed protection



:hager

Safety and reliability

Premium performance

Our new generation of moulded case circuit breakers (MCCBs), the h3+ range provides safe and effective solutions for low voltage electrical circuit protection. It perfectly meets the safety and performance requirements for use in multi-residential and commercial premises and offers switchboard designers, consultants and contractors a wider range of benefits.



Safety and reliability lies at the heart of low voltage power distribution which our h3+ range is suitable for.

Safety -

Our new h3+ MCCBs consist of traditional thermal magnetic protection (TM) and advanced electronic protection (LSI)

It comes with three different short circuit breaking capacities and is ideal for fault protection in the low voltage power distribution network.

Reliability -

It is developed for operating temperatures ranging from -25°C to $+70^{\circ}\text{C}$ and is compliant to AS/NZS 60947.2 standards.



Our h3+ MCCBs guarantees reliable protection against overloads and short circuits.



One range. Three versions

The choice is yours

Our new h3+ MCCBs are ideal for all types of multi-residential and commercial buildings, including apartments, student accommodations, offices, shops and hotels.



The size of multi-level residential and commercial buildings determines the energy requirements.

With regulations becoming increasingly strict, it is crucial that the right protection suited to your electrical installations is considered.

Featuring compact frame sizes, available from 25A to 630A with 3 poles, our h3+ MCCBs provides superior protection with a breaking capacity of 25kA up to 50kA.

Also equipped with a thermal magnetic (TM) or electronic trip unit (LSI), the range offers flexible protection settings for all electrical distribution applications.



h3+ / P160



h3+ / P250



h3+ / P630



TM and LSI version

- Protects the distribution system

h3+ MCCB

Features



All products in the new h3+ range can be integrated easily into our quadro evo switchboard system.



Features:

- From 25A to 630A
- Three frame sizes
- Can be mounted on the DIN rail in option up to 250A
- TM and LSI trip units
- Breaking capacity of 25kA, 40kA, 50kA at 415 VAC
- 3 pole
- Wide range of auxiliaries and accessories
- Horizontal or vertical installation

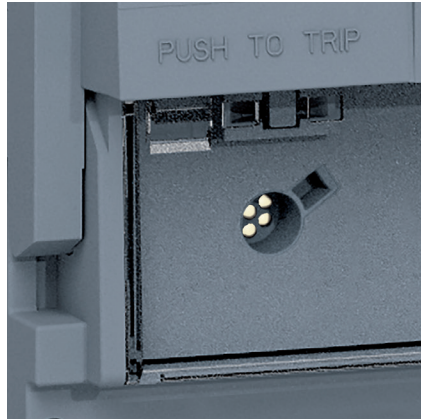


01

Secure screw

The quarter-turn secure screw and front hinge cover offers additional benefits:

- Easy access to auxiliary contact slots.
- Hinged front cover prevents incorrect refitting.



02

MIP Connector

The MIP connection point can be used to connect the HTP610H configuration tool. It monitors all measurements of the device and can launch a tripping test.

(Only in LSI)



03

Auxiliary window

The type of auxiliaries can be seen directly through the windows on the front panel, without removing the cover.



04

Integrated padlock

The handle can be directly locked with no need for extra accessories.

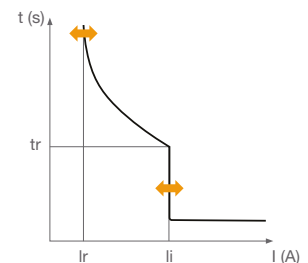
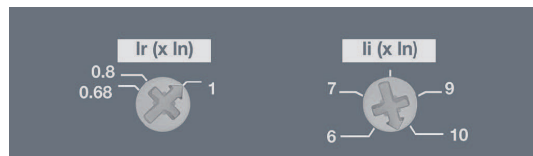
Guaranteed protection

Two trip units have been designed to effectively protect your installations against overloads and short circuits.

It offers you the option to choose the best protection settings for your electrical distribution applications.

TM trip unit

h3+ MCCBs equipped with thermal magnetic trip units are designed for power distribution applications. They are used to protect the conductors and the loads supplied by the transformers or generators, and when the fault current is limited due to impedance caused by the length of the conductors. The settings are made using adjustment dials on the front of the products.



Thermal magnetic trip units comes with two dial settings:

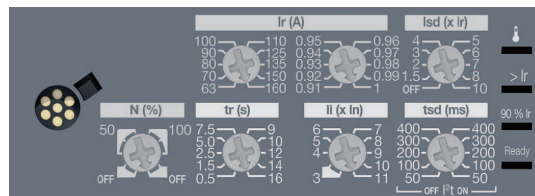
- Ir - Thermal protection against overload
- Ii - Instantaneous protection against short circuit.

Thermal magnetic trips are most suitable for basic protection and cost optimisation for your installation.

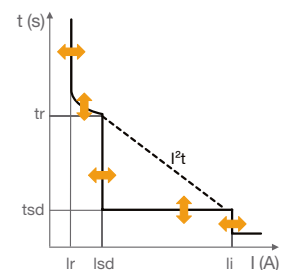
	TM		LSI		
	P160	P250	P160	P250	P630
Breaking capacity (kA)	25, 40, 50		25, 40, 50		40, 50
Ratings (A)	25 - 160	50 - 250	40 - 160	40 - 250	250 - 630
No. of poles (P) and trip units (D)	3P3D		3P3D		

LSI trip unit

h3+ MCCBs equipped with LSI trip units are designed for power distribution applications to protect conductors and loads where a wide range of protection settings is required.



Settings made using adjustment dials are accessible on the front of the products, and enable accurate adjustment of the protection and a trip curve independent of the ambient temperature.



Advanced electronic trip units comes with multiple setting options:

- Ir - Long time protection against overload
- Tr - long time delay
- Isd - Short time protection against short circuits
- Tsd - short time delay
- Ii - Instantaneous protection against short circuit

Advanced electronic trip units offer better options for flexibility in current settings and achieves better co-ordination between upstream and downstream devices. The front LED indicators are also another innovative addition to improve the safety features of the device and to identify over current and over temperature statuses. It is an ideal choice for your more complex applications.

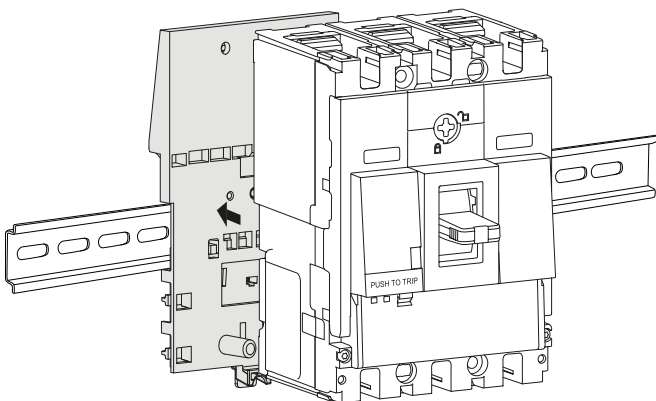


easy to install

Compact and ergonomic, our h3+ MCCBs are particularly easy to integrate into switchboards with simple commissioning and fast wiring to optimise installation.

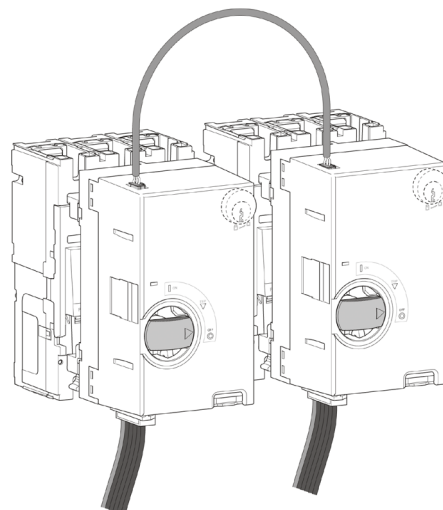


Horizontal or vertical installation



Mounting

P160 and P250 can be mounted on DIN rail

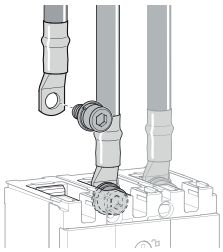


Interlocking

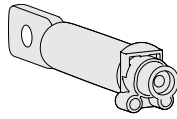
Available for frame P160, P250, P630

1. Connection accessories

Connection terminals

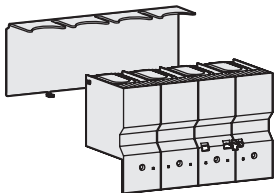


Rear connections

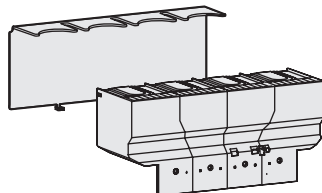


2. Terminal enclosures

For extended connections



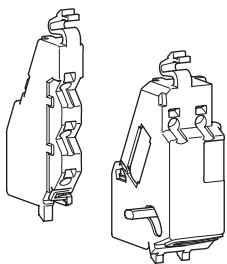
For spreaded connections



For rear connections

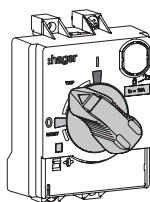


3. Auxiliary contacts

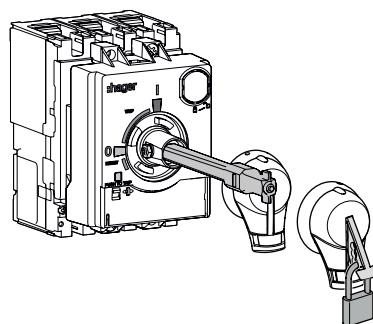


4. Control auxiliaries

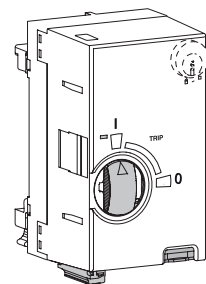
Direct rotary operation



External rotary operation



Motor operator



5. Locking device

Padlocking device



Ronis type key device



Pro-business solutions provider

Hager offers switchboard solutions tailored to your electrical installation applications. They are designed to meet your working requirements: safety, reliability and ease of connection.



Switchboard designers and consultants

- Wide range of breaking capacity offers flexibility to select devices based on application requirement.
- Compliant to AS/NZS 60947.2
- Cascading, selectivity and curves are integrated in Power CAD.

Contractors

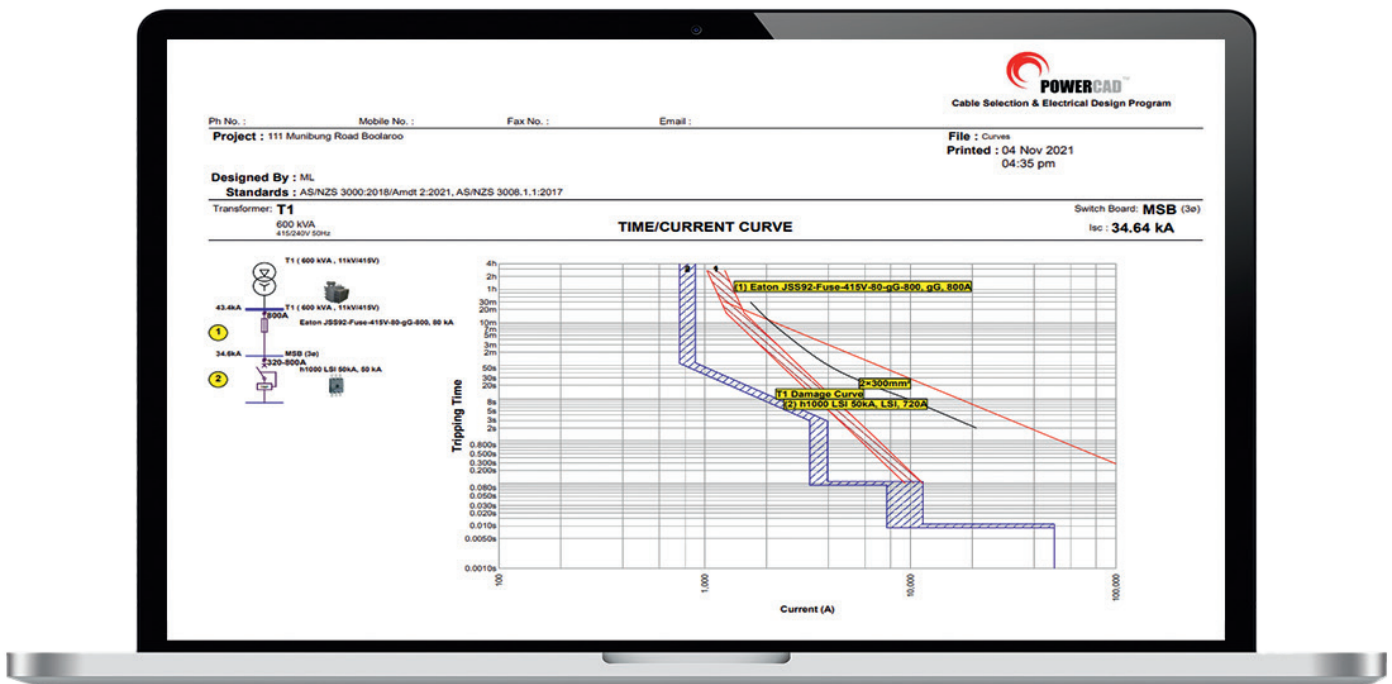
With easy configuration, connection and setting, the h3+ range saves you a lot of time.

- Wide range of connection accessories offer quick and flexible connection options for sub main cables. These accessories include straight terminal extension, spreader terminal extension and rear connection kits.
- Individual LED indication in electronic MCCBs trip units clearly identifies over temperature and over current status of the device.
- Access to HTP610H configuration tool helps read and display all the measurements easily and clearly and to launch a tripping test on the electronic MCCB trip unit device.



Convenient access to curve studies

All our h3+ MCCB curves, cascading, and selectivity data are included in the Power CAD software. This allows quick access to perform curve studies suited for your project requirements.





**Quick contact, expert help
and availability at any time.
We are here for you.**

Now, how can we help?

For project quotes and to receive our Project Pricing Request Form, please contact us on **1300 850 253**.



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