

Smart. Safe. Simple.

The new, easy to install,
ACB hw+ range from Hager.



:hager

A new era in protection.

As your partner, the safe supply of power will always be our top priority. Decades of experience, and an attentive ear for our customers, has made it possible for us to develop our new hw+ range air circuit breaker to meet all your requirements: maximum power with minimum volume and a completely unique user experience.



The safety requirements for electrical systems are becoming increasingly stringent due to more stricter standards and more intelligent installations. Our new ACB includes all the features you need for maximum protection against events such as short circuits, ground faults or overloads. It combines all the features you need to make your installation safer and more communicative and to manage your electrical energy. Many extensible accessories make our new ACB fully customisable for all your special needs.

But that's not all: with the Hager Power setup software and the new Hager Power touch app commissioning, operating and maintaining are easier than ever. This not only takes the digitalisation of your process to the next level, it also gives you the opportunity to maintain full control over the entire energy flow at all times.

Protection on board.

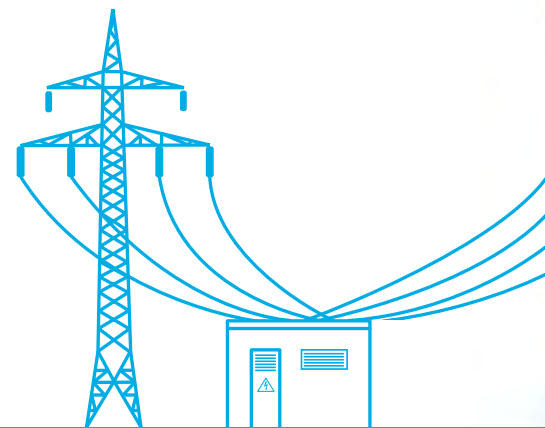
Whether in industries, infrastructures or buildings, every environment requires a reliable supply of electrical power. Our power distribution board, univers N, has proven successful with our customers, and as a tailor-made solution, it easily meets the most demanding requirements.

All air circuit breakers of the hw+ range can easily be integrated into the quadro evo power distribution switch board. This way, the core of your power supply is exactly where it belongs – at the heart of your switchgear. This not only provides reliable protection against overload, short circuits and other factors, but also ensures integrated monitoring and energy transparency throughout the entire system, with the appropriate module extensions. This allows you to tap into the potential of your electrical system and make optimizations at any time in order to get the most from your ACB.



quadro evo at a glance.

The switchgear assemblies made with the quadro evo system, in accordance with Hager recommendations, meet the requirements of the international standard IEC EN 61439-1 and -2. Depending on the level of safety required, the available partitions - 1, 2b, 3b, 4b - and the many possible combinations and equipment options, quadro evo packages will provide you with the right solution for your projects, whatever their size.



01 Tested and approved

A system that complies with international standards (IEC 61439), validated by tests carried out in an independent, accredited European laboratory. This includes component resistance, IP protection, mechanical operation and thermal limits.

02 More robust

The robust mechanical structure and new internal equipment system enable high performance to be achieved (Icw 85 kA up to 4000 A) to suit as many projects as possible.

03 More safety levels

Choice of partitions - 1, 2b, 3b, 4b - for continuity of service during servicing, maintenance and upgrades to the switchboard, in complete safety.

04 More ease

All the components are designed for quick and easy assembly, with pre-attachment functions on the kits, optimised screwing operations and standardised screw types.

05 More flexibility

The new busbar support system uses a reduced number of components to produce the configurations tested, using 10 mm thick profiled aluminium busbars or 5 or 10 mm thick copper busbars.

06 Service Index

The quadro evo range offers a complete solution covering service ratings from 111 to 233. When it comes to internal equipment for departures and storage areas, there are a number of standard combinations that more than meet requirements. The enclosures can also be fitted with an all-SX solution.

Customised for you.

Whether you're an electrical consultant, a panel builder, an installer or operator, our hw+ air circuit breakers offers all the features you need to improve system design, construction and operation, in every commercial sector.

Hotel



Retail



The applications of air circuit breakers are versatile, however their requirements vary depending on the situation. Just as requirements differ, so do the needs of each target group. With the hw+ range, Hager combines everything you could ever want from an ACB: from simple planning, easy commissioning and smart operation to maximum scalability for your projects.

Office



Healthcare



Educational



Benefits for large installers:

- Easy and fast access to technical documentation via QR code
- Commissioning report generated by Hager Power setup software
- Customer trust assured by the trip test command available with the sentinel Energy trip unit

Benefits for operators:

- User-friendly Hager Power touch app
- Electrical safety: monitor voltage, current, power, energy consumption, and fault events without touching the electrical distribution board
- Electrical safety: user-friendly display, easy to handle
- Easy and fast access to technical documentation via QR code

Benefits for facility managers:

- User-friendly Hager Power touch app
- Electrical safety: monitor the voltage, current, power and energy consumption and faults events without touching the electrical distribution board
- Electrical safety: restore power after a shutdown from a safer distance



Benefits for electrical consultants:

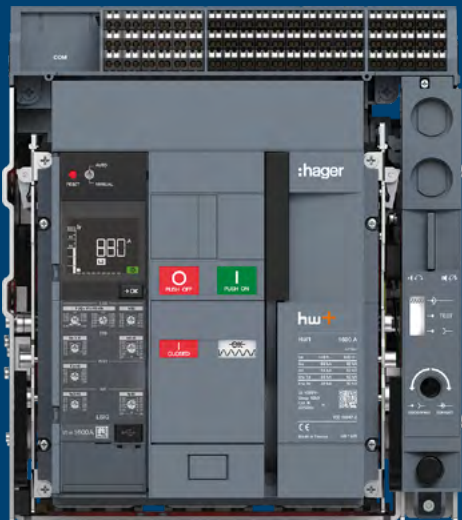
- Customisable alarms: alarm features can be adapted on site
- Multi-tariff energy counters included

Benefits for panel builders:

- Time saving thanks to pre-assembled circuit breaker
- Tool-free mounting of coils
- quickconnect terminal blocks
- Easy to mount

Say hello to hw+.

HW1
400–1600 A



HW2
630–2500 A



HW4
1000–4000 A



Every electrical installation comes with its own requirements. To meet any challenge, the hw+ range offers you the appropriate product to master every demand.

Product types

- Air circuit breaker
- Switch-disconnector

Available versions

- Withdrawable
- Fixed

Full range of accessories

- Control & command
- Signalling
- Locking
- Interlocking
- Insulation
- Connection

Different Trip Units

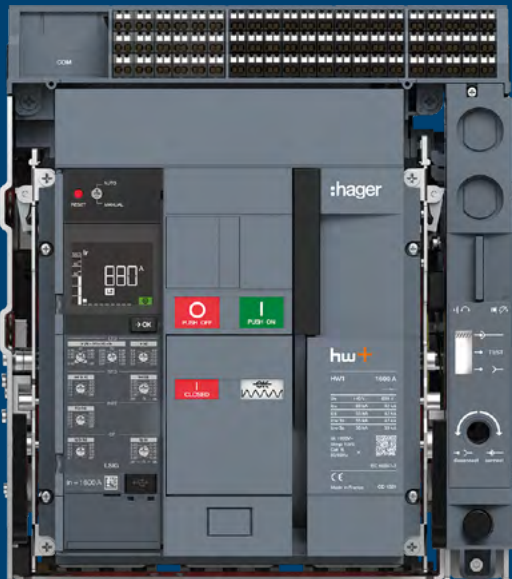
- “sentinel” provides basic protection (LI, LSI, LSIG)
- sentinel Energy provides advanced protection (LSI, LSIG) and includes measurement and communication

hw+ ACB overview

Rated current (In)		400 A	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A
HW1	N: 42 kA	Icu = Ics = Icw									
	M: 55 kA	Icu = Ics = Icw									
	E: 66 kA	Ics = Icw = 55 kA									
HW2	M: 55 kA	Icu = Ics = Icw									
	E: 66 kA	Icu = Ics = Icw									
	S: 100 kA	Ics = Icw = 85 kA									
HW4	E: 66 kA	Icu = Ics = Icw									
	S: 85 kA	Icu = Ics = Icw									
	P: 120 kA	Ics = 100 kA, Icw = 85 kA									

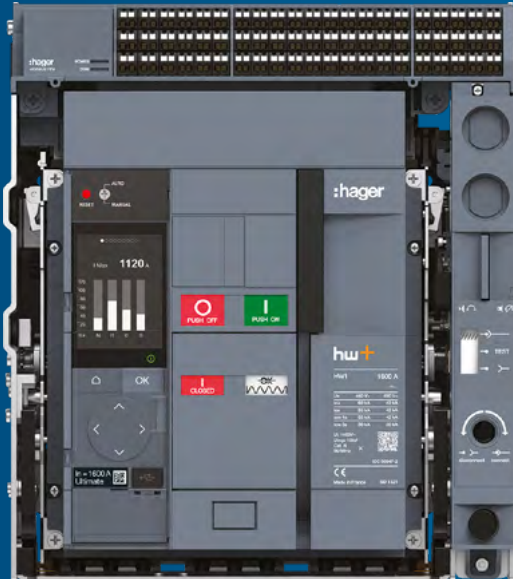
The choice is yours:

Trip unit sentinel or sentinel Energy.



hw+ sentinel: the flexible one

The trip unit sentinel manages to combine all the functions and tools you need in just one system thanks to its intelligent design. This gives you flexibility in reacting to changes in your distribution system at any time. The LCD-display and intuitive navigation views make its operation child's play. All protection settings can be easily carried out directly on the trip unit.



hw+ sentinel Energy: the smart one

The trip unit sentinel Energy is a high-performance powerhouse that brings your user experience to the next level. The trip unit and the powerful coloured TFT display offer you even more possibilities in the operations. In addition to all the features of the trip unit sentinel, the trip unit sentinel Energy also offers communication, advanced protections, alarms, metering and control functions, and is therefore suitable for particularly high demands.



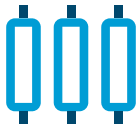
Compact size



Secure and easy-to-use trip units



Plug & Play Rating Plug



Output alarm contacts



Bluetooth connected*



Metering functions*



Advanced protections*



Modbus communication*



Easy commissioning via software



Warnings and trip alarms



Easy and safe mounting of accessories



Easy locking and interlocking



Advanced alarms*

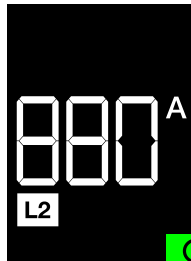


Control functions*



Easy maintenance

*only integrated in ACB sentinel Energy



01
LCD-display
The easy-to-read LCD display helps you to set the configuration of your the unit.



02
Trip unit sentinel
Safe adjustment of the sentinel trip unit with the combined dials and LCD display.



03
Rating plug
Makes it easier to adapt your system with a plug & play rating plug.



04
OAC-module
Up to five optional Output Alarm Contacts can be connected via terminal blocks to monitor the main tripping causes.



05
Terminal blocks
Easy extension by terminals for all the auxiliaries (motor, coils, switches, etc.) via quickconnect.



06
Interlock
This locking device enables the blocking of the PUSH ON push-button in order to prevent the closing of the ACB.



07
Push & lock coils
Safe and easy mounting. Coils are easily and safely mounted thanks to Push & lock system.



08
Racking handle
Perfectly and safely integrated into storage location.



09
Safety shutter
Lockable safety shutters protect the main contacts as soon as the circuit breaker is removed from the chassis, using withdrawable technology.



10
Slide-in technology
Easy removal of the ACB from the slide-in frame thanks to laterally extendable guide rails.



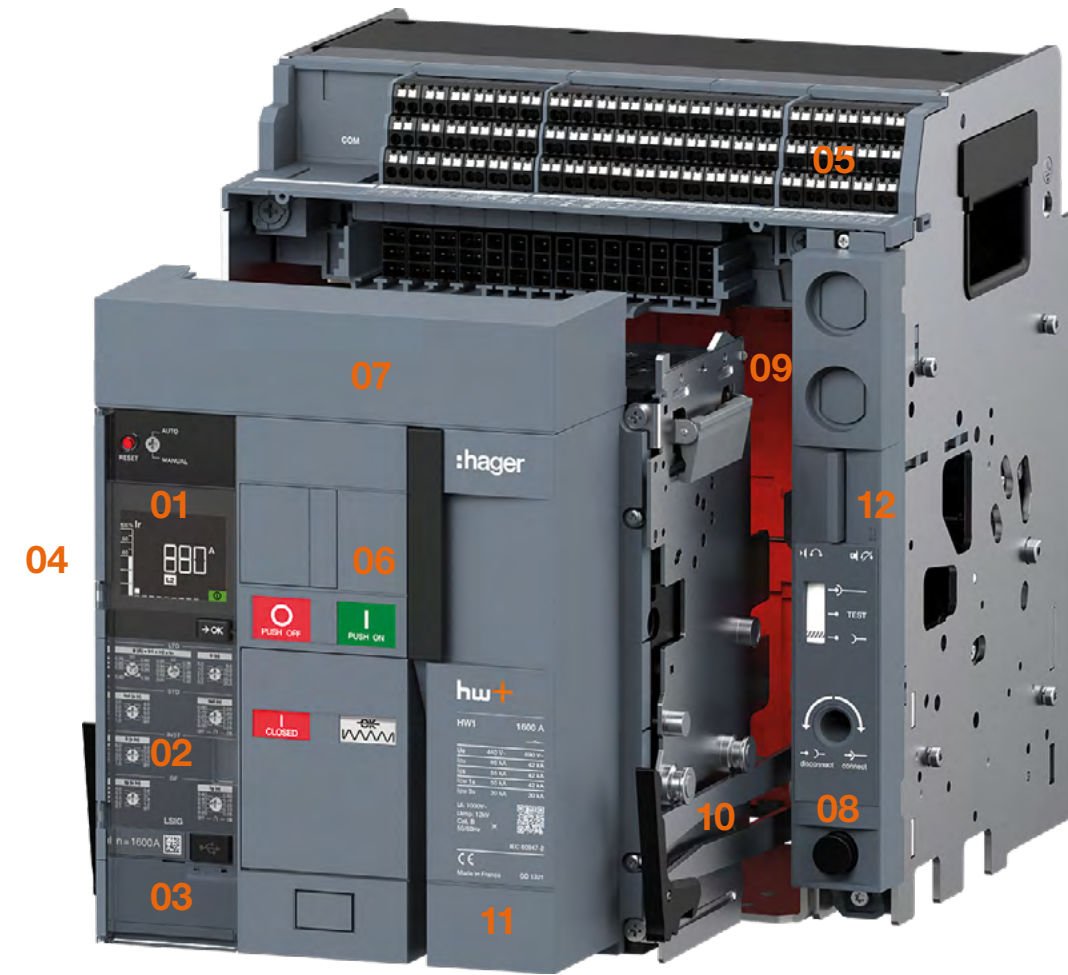
11
QR code
Get all the information and technical documents of your product by scanning the QR code.



12
Release & lock catch
The position latch is not only use to release the chassis position during racking operation but also used to lock it with up to 3 padlocks.

hw+ sentinel: the flexible one.

The hw+ sentinel from Hager has a single goal: to maximize the reliability of your plant. It combines protection and user-friendly functions with flexible connection options and unbeatable product quality in a highly robust, yet uniquely compact design.



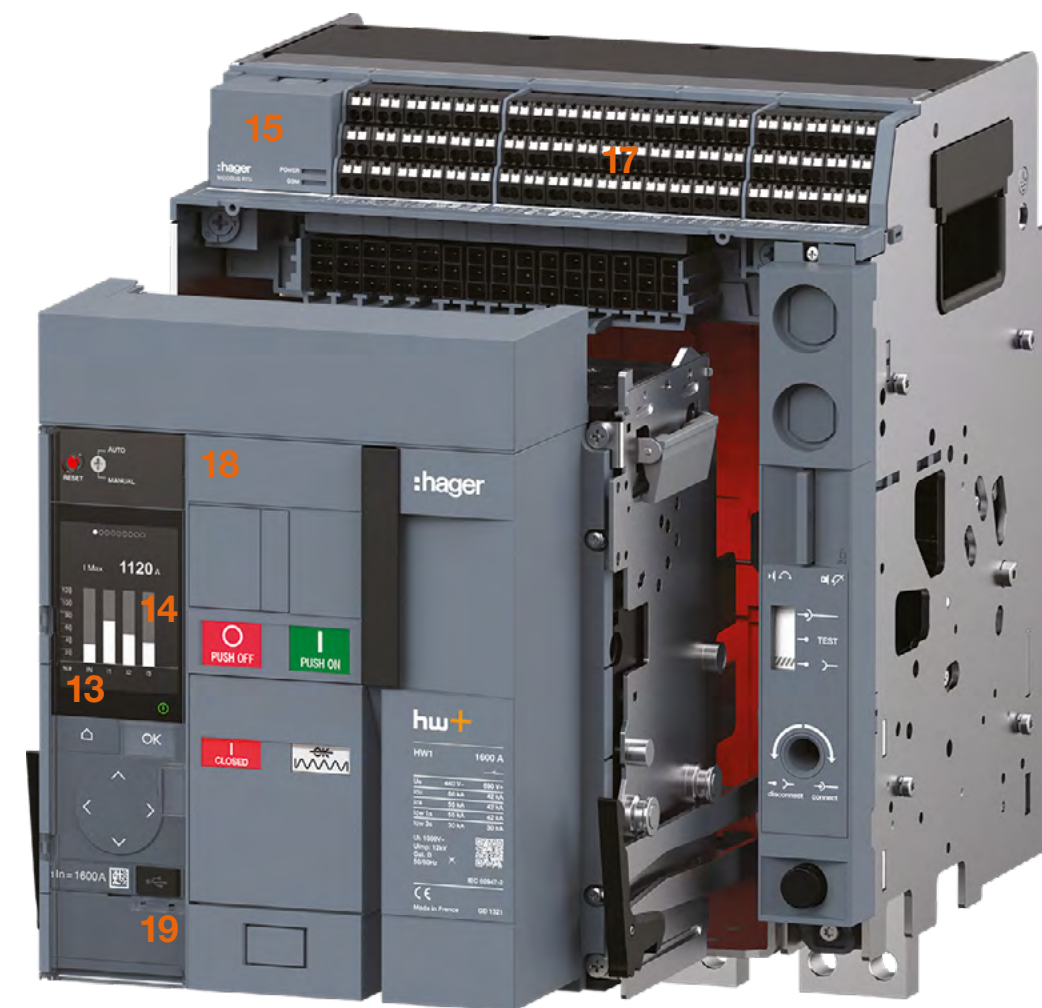
Common characteristics ACB hw+ with sentinel

Rated operational voltage	Ue	(V AC-50/60 Hz)	690
Rated insulation voltage	Ui	(V)	1000
Rated impulse-withstand voltage	Uimp	(kV)	12
Poles		3/4	
Versions		Fixed/Withdrawable	
Standards		IEC 60947-2	

Icu (kA)	42/55/66					
In (A)	630	800	800	1000	1250	1600

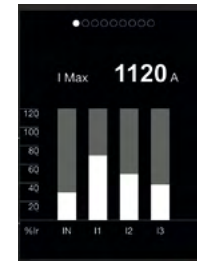
hw+ sentinel Energy: the smart one.

In combination with the sentinel energy trip unit, the hw+ offers even more comprehensive functions compared to the sentinel trip unit. With its advanced performance package, multifunction protection, integrated Bluetooth-function and connection to the Hager Power touch app, the hw+ sentinel energy makes even the most demanding task easy to handle.

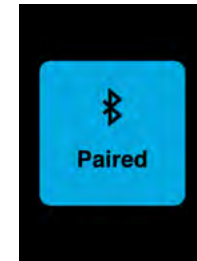


Common characteristics ACB hw+ with sentinel Energy

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Versions		Fixed/Withdrawable	
Standards		IEC 60947-2	



13
Trip unit sentinel Energy
The powerful graphical TFT-display shows predefined measurement and settings screens permanently scrolling.



14
Bluetooth connected
Monitor your ACB with the Hager Power touch app using the Bluetooth-ready sentinel Energy trip unit.



15
COM modules
Optional COM modules allow communication via Modbus-RTU or Modbus-TCP with the agardio. manager and the Stream software.



16
Panel display
Optional panel display allows to give a display access to the ACB when it is mounted behind an opaque door or panel.

More information about the hw+ air circuit breakers, functions and connection options can be found on [LINK](#)



17
OAC module
Inform remotely on customisable predefined event with the optional OAC module which is driving up to 5 output contacts.



18
Communicating coils
The SH and CC coils are ready to receive on/off control commands, allowing remote control via the Hager Power touch app, Hager Power setup software, or Modbus communication.



19
USB-C connection
The integrated USB-C port allows operation even without a network power supply. Simply connect a laptop and use the Hager Power setup software for test and commission.

Two trip units.

Hager ACB hw+ with sentinel:
available in LI, in LSI or in LSIG version.



Although applications in buildings, infrastructures and industries require diverse protection capabilities, the hw+ ACB range covers all your needs with two trip units. While the sentinel trip unit provides all the features for conventional applications, the sentinel Energy trip unit offers advanced protection and control functions making it the premier choice for particularly demanding requirements.

Traditional protections:

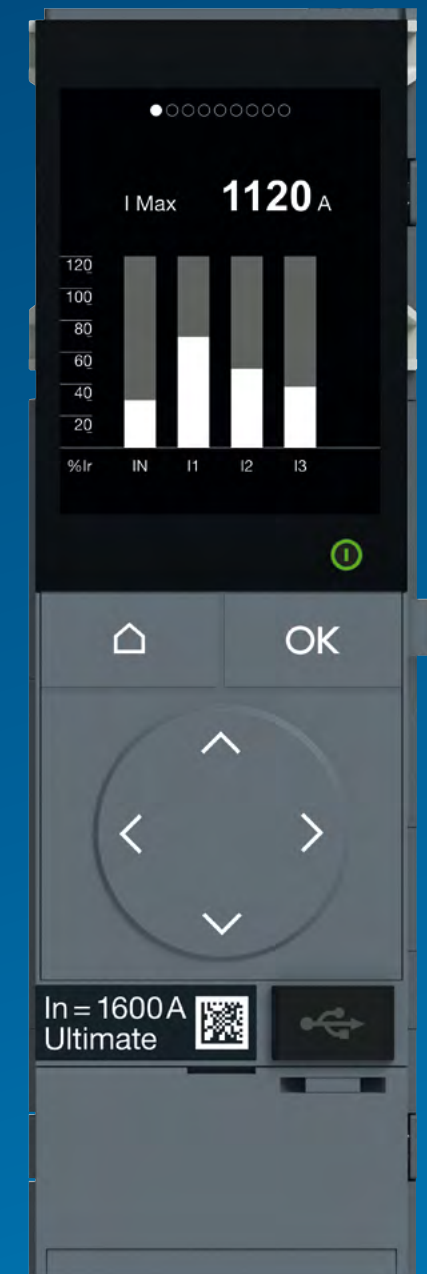
- Long-time overcurrent protection (L or ANSI 49)
- Short-time overcurrent protection (S or ANSI 50TD/51)
- Instantaneous overcurrent protection (I or ANSI 50)
- Ground fault protection (G or ANSI 50N/51N)
- Neutral pole protection

Other functions:

- Optional OAC module
- ZSI protection available

Two sentinels.

Hager ACB hw+ with sentinel Energy:
available in LSI or in LSIG version.



Advanced protections:

- IDMTL overcurrent protection (IEC 60255-151),
- Undervoltage protection (ANSI 27)
- Overvoltage protection (ANSI 59)
- Underfrequency protection (ANSI 81L)
- Overfrequency protection (ANSI 81H)
- Reverse active power protection (ANSI 32R)
- Current unbalance protection (ANSI 46)
- Voltage unbalance protection (ANSI 47)

Advanced alarms:

- 12 custom alarms,
- DIP and SWELL alarms
- Optional customisable OAC module

Metering functions:

- Current, voltage, frequency, phase sequence
- Power & energy (Accuracy class 1 according to EN 61557-12)
- Demand power & current
- Power Factor and $\cos\phi$
- Total Harmonic Distorsion THD V, THD I, THD IN
- Multi-tariff energy counters (up to 8 tariff slots)
- Individual harmonics up to rank 40

Communication:

Modbus-RTU or Modbus-TCP

Control functions:

- Closing/opening command
- Dual protection management

The trip unit sentinel.

With the clear graphic TFT display, you always have all the important information in view and can make many settings directly on the device itself. This not only facilitates operation but also increases your response speed.

01 Display power on



Power the trip unit with a USB Power Bank.

02 Dial handle



Handle the dial to display the set value of parameter.

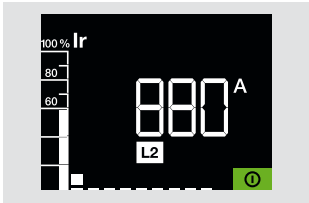
03 Protection settings



Each parameter is displayed in real-time, in amps or seconds. You can set all long time delay, short time delay, and instantaneous protection parameters, and depending on your product customisation, either the neutral protection or the ground fault protection.

04 Settings overview

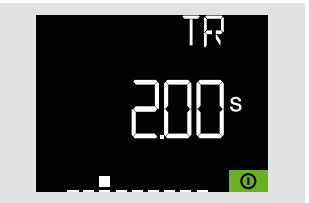
The OK button can be used at any time to overview the set parameters.



Current read on the most heavily loaded phase L1, L2 or L3 and as a percentage of the setting Ir.



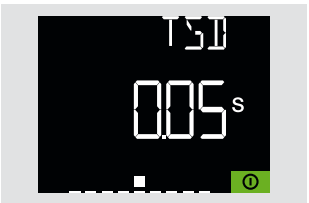
Long time threshold setting.



Long time delay setting.



Short time exposure limit setting.



Short time delay setting.



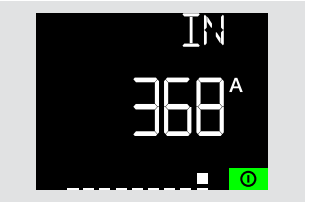
Instantaneous threshold setting.



Ground fault threshold setting.



Ground fault delay setting.



Neutral protection setting.

05 Neutral protection



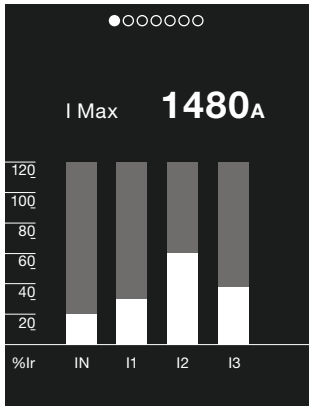
Open the battery flap to access the neutral protection dial. Thanks to the battery, the tripping cause is displayed on the screen after a trip.

The trip unit sentinel Energy.

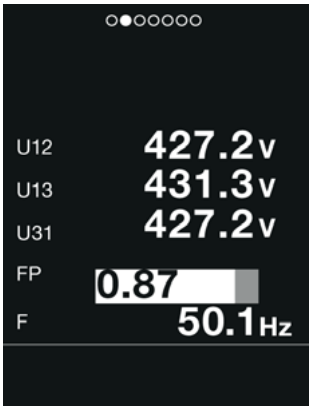
With the clear graphic TFT display, you always have all the important information in view and can make many settings directly on the device itself. This not only facilitates operation, but also increases your response speed.

01 Live mode

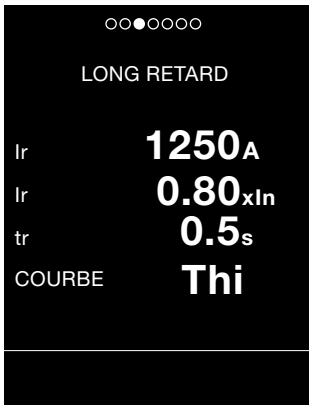
You can choose to scroll through your favourite settings or metering screens by activating Live mode. Up to 36 predefined screens are available.



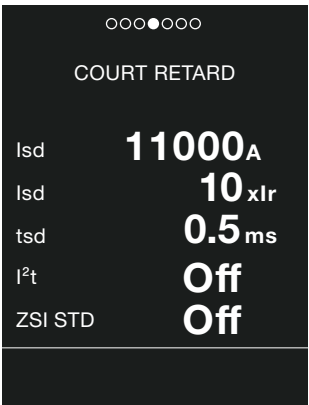
Ampmeter screen.



Multimeter screen.



Long time settings screen.

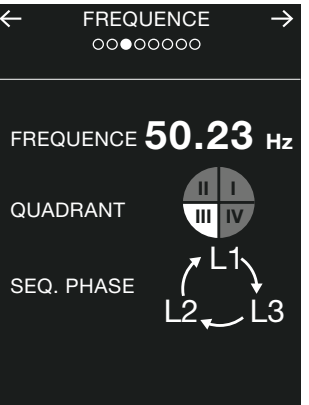
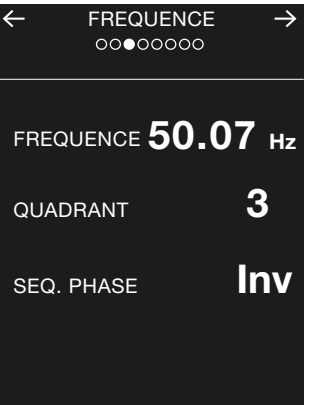
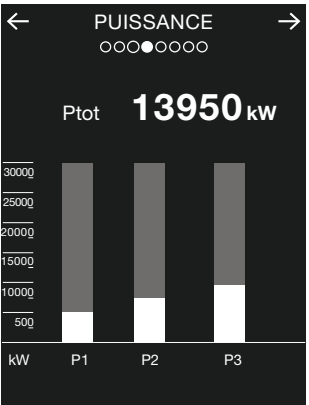
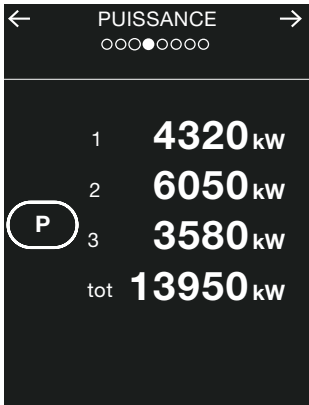


Short time settings screen.



02 Measurement display

You can retrieve all parameters at any time by pressing the OK button. Most measured values can be displayed both numerically and graphically.



03 Trip and alarm pop-ups

You can obtain further information on malfunctions and alarms by using the OK button.



Custom alarm pop-up.



Trip pop-up.



Digital experience: Checking and operating.

In combination with the sentinel Energy trip unit, the Hager Power touch app provides you with a completely new digital user experience. Checking the operating status and maintenance information, as well as operation, become even easier. Additionally, you can monitor the measured values at any time.



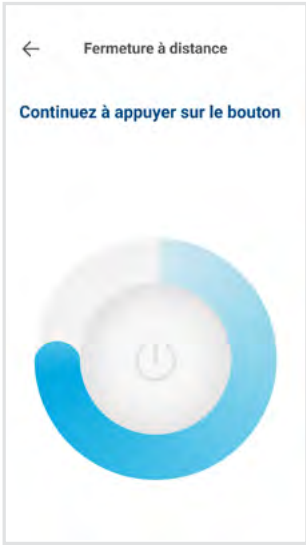
01 Check the operating condition

You can easily check the open/close state and the load rate, and be informed of any alarm occurrences. You can also quickly determine when the next maintenance should be performed.



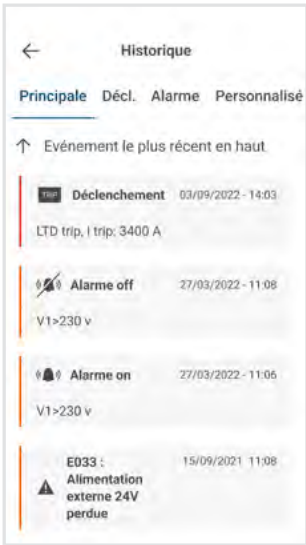
02 Monitor the metering values

Thanks to graphical screens you can monitor the voltage, current, frequency power and energy consumption and all the available measured values.



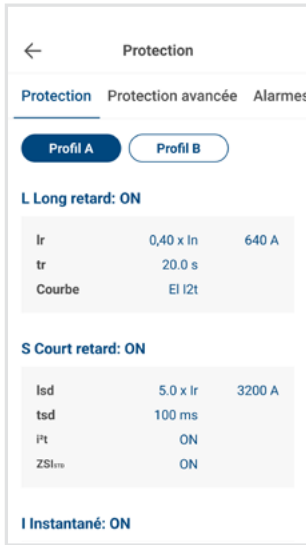
03 Perform a closing command

If the sentinel Energy ACB is equipped with the communicating SH and CC coils, you can perform a closing or opening command from a safe distance of up to 10 meters. These commands are protected by a password.



04 Check the fault events

In the history section, you can overview all the fault events directly on the device.



05 Monitor the metering values

Thanks to graphical screens you can monitor the voltage, current, frequency power and energy consumption and all the available measured values.

Maximise the potential.

The hw+ air circuit breakers come with a full package of accessories: commands, signals, protections, locking and interlocking systems. This allows you to configure your ACB according to your individual needs. All accessories are designed to be retrofitted at any time and are very easy to install.

With this type of conception, you always retain full control over the performance of your air circuit breaker and can always react flexibly to changing requirements in your installation.

Mechanical interlock (MI)



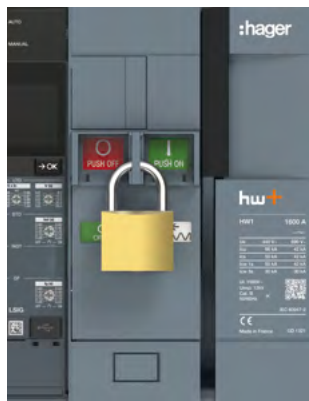
Interlock 2 or 3 ACB together for safety applications. Compatible for all circuit-breaker versions (3P & 4P, Fixed & Drawout).

OFF Locking Keylock (OLK)



Lock in OFF the ACB easily thanks to a Ronis keylock.

Push Button Cov



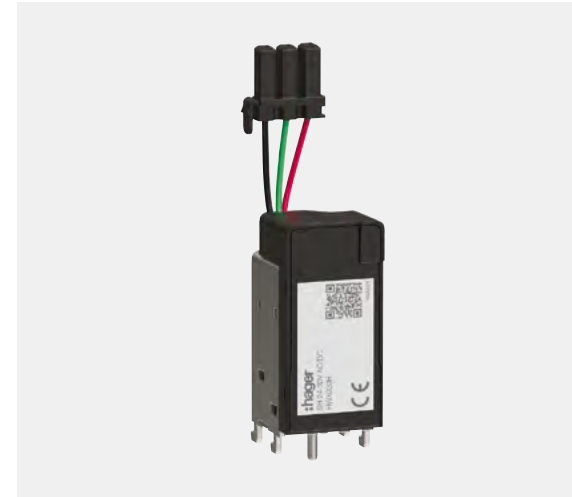
Prevent push button touching with padlocking systems. Can also be used to force and lock in OFF the ACB.

OAC module



Signal remotely the tripping causes splitted within five single output contacts. Using sentinel Energy trip unit allows to customize each output contact to one predefined event.

Coils



The coils are used to remotely open or close the ACB.

3 coils in total can be mounted in the ACB:

- 1 Shunt trip coil (SH) or 2 if no UV required
- 1 Undervoltage release (UV) or 2 if no SH required
- 1 Closing coil (CC)
- Communicating coils option for sentinel Energy

Spring charging Motor (MO)



The spring charging motor is used to charge the spring mechanism when the ACB is closed.

- Safe and easy to mount
- Suitable with all common power supply voltages

Auxiliary Switches (AX)

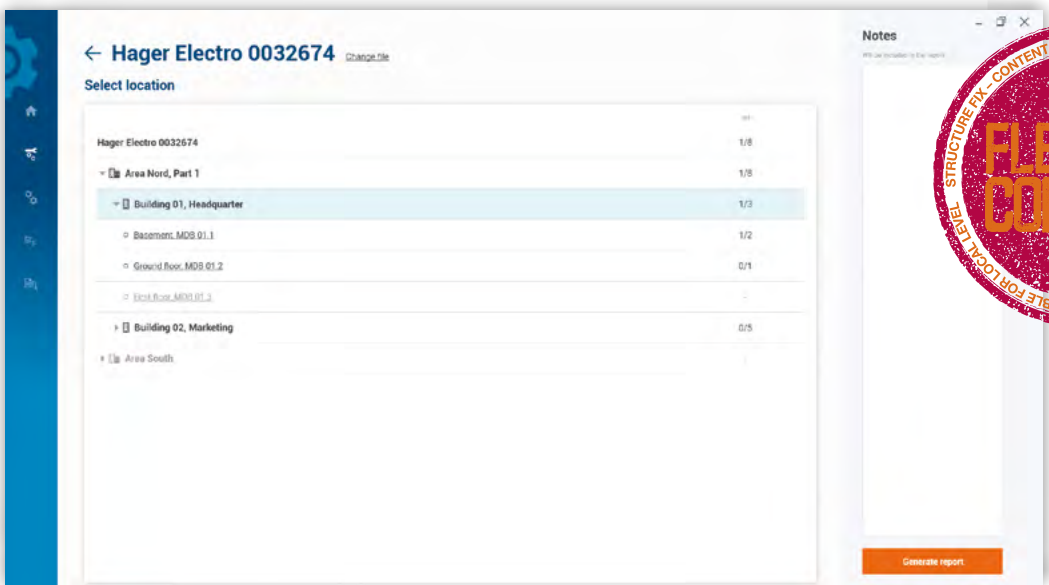


Auxiliary switches are used to signal remotely the ACB status (ON or OFF).

- 4 auxiliary switches (AX) are mounted as standard on ACB HW1 & HW2
- 6 auxiliary switches (AX) are mounted as standard on ACB HW4
- Ready to be connected

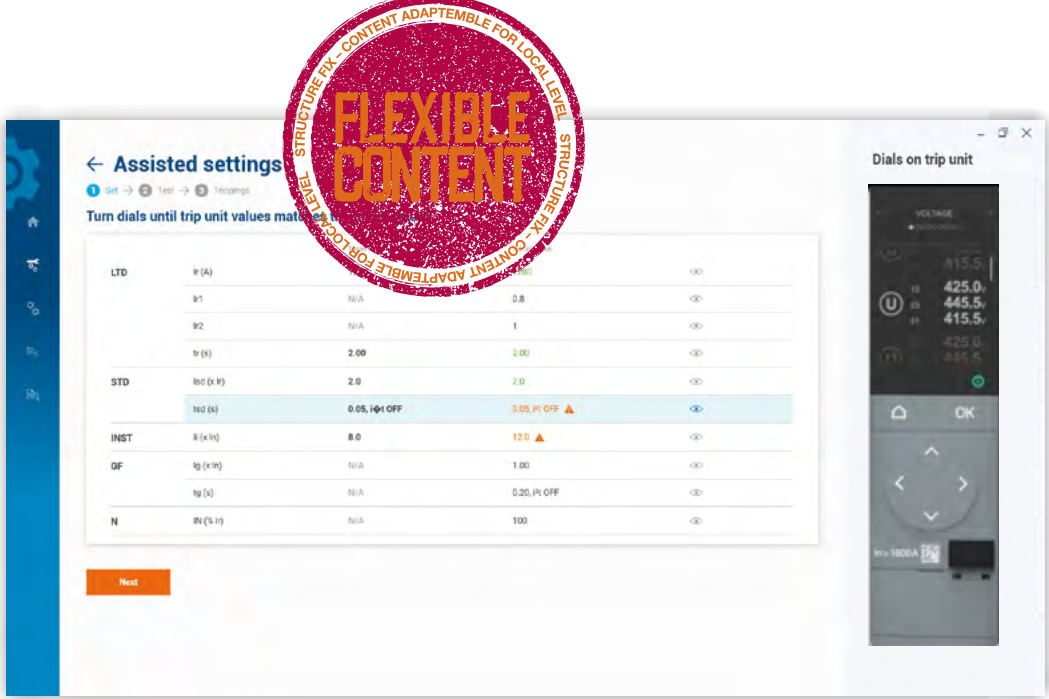
Simple & safe commissioning.

As different as requirements may be, two rules should always apply: commissioning must be performed according to protection settings calculated during design of the installation, and it must be kept to a minimum in terms of complexity and time intensity. The hw+ range is easy to commission thanks to Hagercad software combined with the new Hager Power setup software.



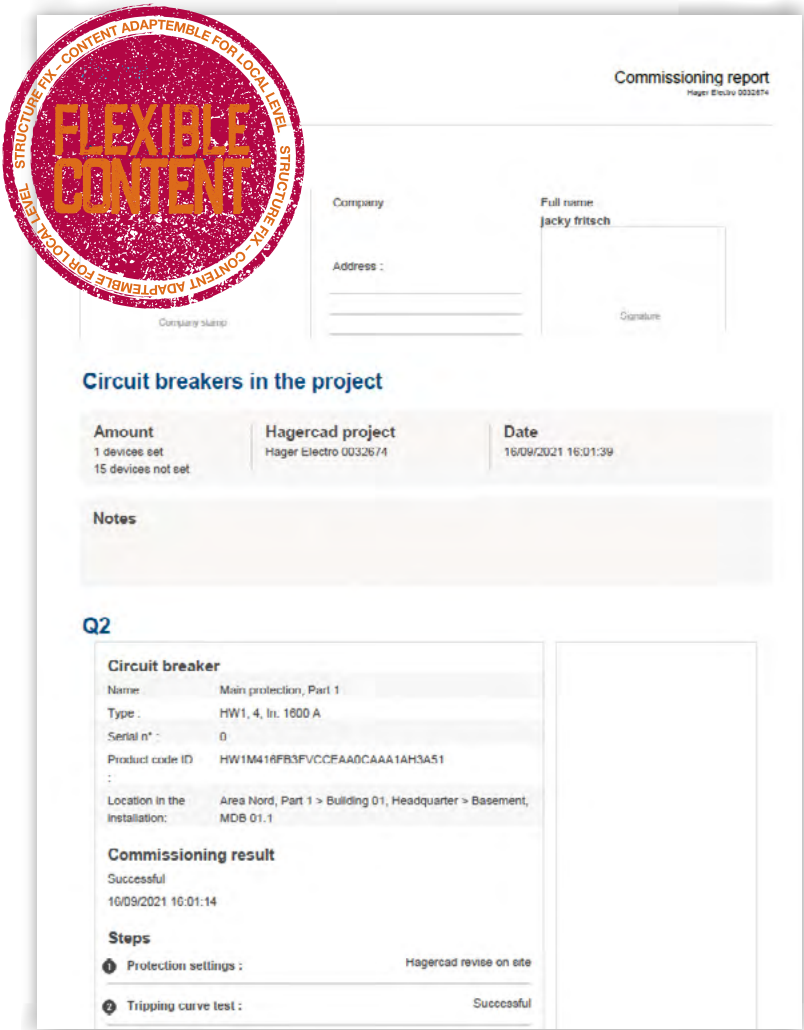
01 Assisted commissioning

Although every power supply system must be viewed individually, there are a large number of settings that you can adopt when commissioning new systems. We have therefore compiled some pre-settings in our Hagercad portal which make the initial installation as easy as possible.



02 Getting protection settings from Hagercad

Protection settings can be exported from Hagercad. Test & Commissioning software is guiding you in importing this structure, and in using it to commission the hw+ air circuit breakers in a user-friendly and secure way.



03 Get proof with commissioning report

With the software you're able to document all your activities on the circuit breaker in a detailed report. This way, they can provide proof at any time that they have been properly adjusted and maintained.

Furthermore, Hager Power setup is the software used to test and check the hw+ air circuit breakers and the h3+ moulded case circuit breakers. It also allows you to check all the historical events stored in the trip units.

Easy planning and customisation with Hagercad.

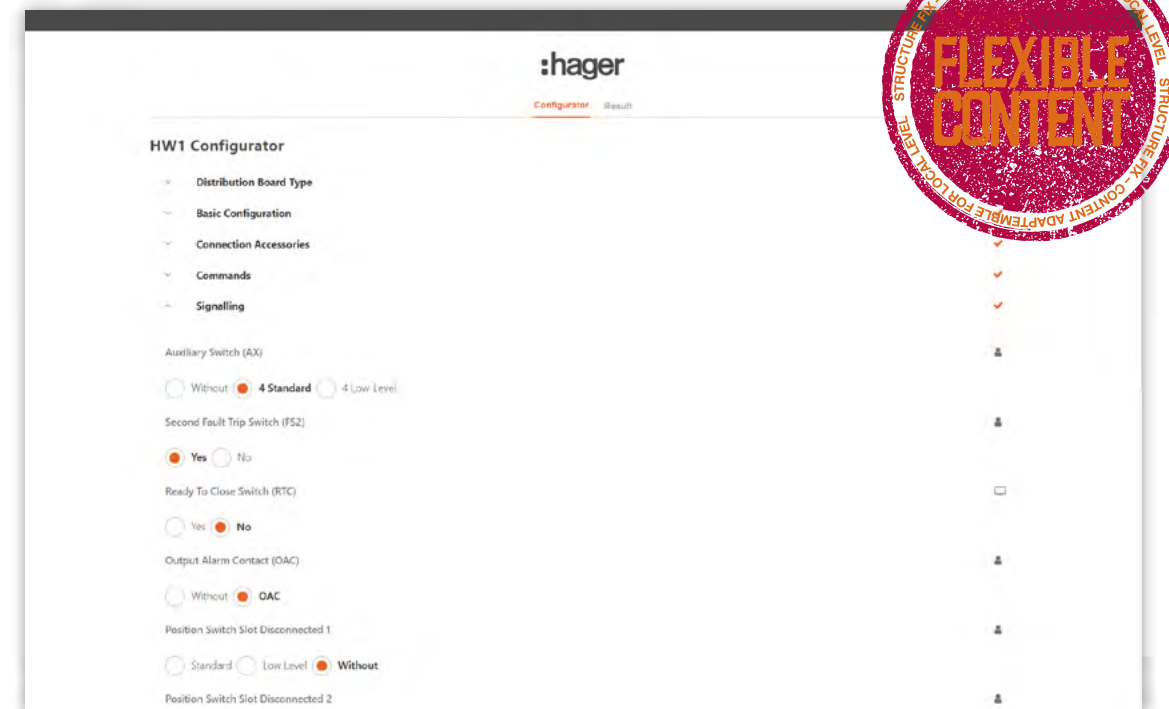
As specialists in simple and safe electrical installation, not only do we understand a great deal about low-voltage distribution system planning and tenders, we also know exactly how to make the commissioning of your ACB as easy as possible for you.

Our software offers an end-to-end solution that covers everything from network calculation to device commissioning, including switch-board planning. This includes:

- **Hagercad.net** for defining the right electrical components.
- **Hagercad.xx** for planning switchboards, including electrical diagrams, layouts, and all required documentation from design office to manufacturing.
- Commissioning tools to ensure that all device settings are in place.

Customise your ACB with hw+ web configurator:

The web configurator can customise your air circuit breaker according to your needs. For the configuration you'll have free choice over the type, trip unit, command and signaling accessories, locking and interlocking devices as well as over mechanical protections.



Interface and configuration rules:

Thanks to its ergonomic and intuitive interface, the selection of all components and accessories is done quickly. Association rules save time on the selection and validity of the final configuration. It's possible to create or edit a new configuration in different ways:

- by following the steps of the form
- using a "hw+ product code" configuration identifier
- by reusing a saved configuration

Start your configuration now at hager.com/link

For you, with you.

Customer proximity is one of our core values. Our solutions are always one step ahead because we know that our clients need tomorrow's solutions today. You can rely on Hager to be by your side with help and advice, whatever the project. With Hager, it's that easy to do business!



Hager Training, the path to excellence



Take steps to develop your skills

Votre accès
formation facilité

Pass

compétences
entreprise

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Benefit from three 7-hour training sessions for one or more of your employees.

- €720 incl. tax (2021 prices).
- Valid for one calendar year.
- Breakfast included.
- Accommodation and travel costs not included.

Easy access to training.
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Technical assistance, get answers quickly



Access any information you
require in a few clicks.



Manuals

Installation,
product wiring



Videos

For commissioning
a product



Tutorials

Recommendations,
configuration,
settings, etc.

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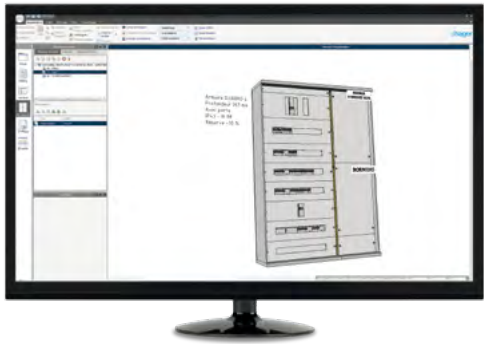
FAQ

Answers to all your
questions



Retail price

For project costing



Software

Design and cost your electrical
installations with **Hagercad.T**

Customise your ACB.

As your partner, our top priority is to always provide you with perfect products tailored to your preferences and application needs. You can configure your new ACB individually, from the fixed version consisting of 5 components to the withdrawable solution consisting of 6 components. To give you a little guidance, we have preconfigured 6 systems as examples to show you how you can assemble your ACB as a 3 pole or 4 pole solution.

ACB sentinel and ACB sentinel Energy are configured as following:

5 catalogue numbers minimum for fixed versions:

- The air circuit breaker
- The sentinel or sentinel Energy trip unit
- The Rating Plug
- The top connection
- The bottom connection

6 catalogue numbers for withdrawable versions:

- The air circuit breaker
- The sentinel or sentinel Energy trip unit
- The Rating Plug
- The chassis
- The top connection
- The bottom connection

The other accessories and auxiliaries are optional and can be added to complete the requested configuration. For every configuration done in Hagercad software or web configurator, a product code is automatically generated. You can enter the product code in the web configurator to generate the configuration and obtain complete details of the bill of materials.



01

Example 1		Product code : HW1M310FEAEHAAAL0AAAA0AA0A00
HW1 3 poles 55kA, In max = 1000A, Fixed type, with Trip Unit sentinel Energy LSI, Horizontal connections on top & bottom		
HW1M310FE	HW1, 3 poles, Fixed type, 55kA, In max = 1000A	
HWW453H	Trip Unit sentinel Energy LSI	
HWW467H	Rating plug 1000A Ultimate	
HWY048H	Horizontal connection for top	
HWY048H	Horizontal connection for bottom	



02

Example 2		Product code : HW1M412DEAFFAAAL0AAAA0AA0A00
HW1 4 poles 55kA, In max = 1250A, Drawout type, with Trip Unit sentinel Energy LSI, Front connections on top & bottom		
HW1M412DE	HW1, 4 poles, Drawout type, 55kA, In max = 1250A	
HWW453H	Trip Unit sentinel Energy LSI	
HWW467H	Rating plug 1250A Ultimate	
HWY041H	Front connection for top	
HWY041H	Front connection for bottom	



03

Example 3		Product code : HW1M412FB2EFAAAB0AAAA0AA0A00
HW1 4 poles 55kA, In max = 1250A, Fixed type, with sentinel LSI Trip Unit and Rating plug In = 1000A		
HW1 4 poles 55kA, In max = 1250A, Fixed type, with sentinel LSI Trip Unit and Rating plug In = 1000A, Front connection top & vertical connection bottom		
HW1M412FB	HW1, 4 poles, Fixed type, 55kA, In max = 1250A	
HWW451H	Trip Unit sentinel LSI	
HWW467H	Rating plug 1000A	
HWY041H	Front connection for top	
HWY041H	Front connection for bottom	



04

Example 4		Product code : HW1M410DB2EFAAAB0AAAA0AA0A00
HW1 4 poles 55kA, In max = 1000A, Withdrawable type, with sentinel LSI Trip Unit, front connection top & bottom		
HW1M410DB	HW1, 4 poles, Withdrawable type, 55kA, In max = 1000A	
HW1C4EH	Chassis HW1, 4 poles, In = 1600A	
HWW451H	Trip Unit sentinel LSI	
HWW467H	Rating plug 1000A	
HWY045H	Front connection for top	
HWY045H	Front connection for bottom	

Configurations
to be defined by
French market



05

Example 5		Product code : HW1M312DB2FFAAAB0AAAA0AA0A00
HW1 3 poles 55kA, In max = 1250A, Withdrawable with sentinel LSI Trip Unit, front connection top & bottom		
HW1M312DB	HW1, 3 poles, Withdrawable type, 55kA, In max = 1250A	
HW1C3EH	Chassis HW1, 3 poles, In = 1600A	
HWW451H	Trip Unit sentinel LSI	
HWW468H	Rating plug 1250A	
HWY044H	Front connection for top	
HWY044H	Front connection for bottom	



06

Example 6		Product code : HW1M310FB2EFAAAB0AAAA0AA0A00
HW1 3 poles 55kA, In max = 1000A, Fixed type, with sentinel LSI Trip Unit, Front connections on top & bottom		
HW1M310FB	HW1, 3 poles, Fixed type, 55kA, In max = 1000A	
HWW451H	Trip Unit sentinel LSI	
HWW467H	Rating plug 1000A	
HWY040H	Front connection for top	
HWY040H	Front connection for bottom	

- mit thermischer und magnetischer Auslösung zum Schutz elektrischer Anlagen und Netze
 - Befestigung auf Hutschiene, Montageplatte oder in Bausteinen im Verteiler-Innenausbausträger univers N
 - An der Knebelstellung sind die drei unterschiedlichen Betriebszustände „EIN“, „AUS“ und „ausgelöst“ erkennbar
- Rahmenklemmen zum Anschluss von Kupferkabeln sind Standard
 - Rahmenklemmen zum Anschluss von Aluminiumkabeln sind erhältlich
 - mechanische Prüftaste
 - über verschiedene Zubehörteile ist die Funktionserweiterung der Leistungsschalter möglich



HNS025DC

Leistungsschalter, P160, 25 kA, 3-polig, thermisch und magnetisch einstellbar

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	25 A	3 P	1	H406	271,90 €/St	HNS025DC
220/690 V	40 A	3 P	1	H406	295,50 €/St	HNS040DC
220/690 V	63 A	3 P	1	H406	295,50 €/St	HNS063DC
220/690 V	80 A	3 P	1	H406	328,70 €/St	HNS080DC
220/690 V	100 A	3 P	1	H406	363,90 €/St	HNS100DC
220/690 V	125 A	3 P	1	H406	568,40 €/St	HNS125DC
220/690 V	160 A	3 P	1	H406	628,30 €/St	HNS160DC



HNS026DC

Leistungsschalter, P160, 25 kA, 4-polig, thermisch und magnetisch einstellbar

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	25 A	4 P	1	H406	271,90 €/St	HNS026DC
220/690 V	40 A	4 P	1	H406	271,90 €/St	HNS041DC
220/690 V	63 A	4 P	1	H406	276,10 €/St	HNS064DC
220/690 V	80 A	4 P	1	H406	307,20 €/St	HNS081DC
220/690 V	100 A	4 P	1	H406	347,90 €/St	HNS101DC
220/690 V	125 A	4 P	1	H406	670,10 €/St	HNS126DC
220/690 V	160 A	4 P	1	H406	771,70 €/St	HNS161DC



HNS025DC

Leistungsschalter, P160, 40 kA, 3-polig, thermisch und magnetisch einstellbar

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	25 A	3 P	1	H406	268,60 €/St	HNS025DC
220/690 V	40 A	3 P	1	H406	295,50 €/St	HNS040DC
220/690 V	63 A	3 P	1	H406	295,50 €/St	HNS063DC
220/690 V	80 A	3 P	1	H406	328,70 €/St	HNS080DC
220/690 V	100 A	3 P	1	H406	363,90 €/St	HNS100DC
220/690 V	125 A	3 P	1	H406	568,40 €/St	HNS125DC
220/690 V	160 A	3 P	1	H406	628,30 €/St	HNS160DC



HNS026DC

Leistungsschalter, P160, 40 kA, 4-polig, thermisch und magnetisch einstellbar

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	25 A	4 P	1	H406	348,90 €/St	HNS026DC
220/690 V	40 A	4 P	1	H406	372,40 €/St	HNS041DC
220/690 V	63 A	4 P	1	H406	372,40 €/St	HNS064DC
220/690 V	80 A	4 P	1	H406	418,50 €/St	HNS081DC
220/690 V	100 A	4 P	1	H406	465,60 €/St	HNS101DC
220/690 V	125 A	4 P	1	H406	727,80 €/St	HNS126DC
220/690 V	160 A	4 P	1	H406	809,20 €/St	HNS161DC

Leistungsschalter, P160, 40 kA, 3-polig, elektronisch einstellbar (LSnl)

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	40 A	3 P	1	H406	467,70 €/St	HNS040GC
220/690 V	100 A	3 P	1	H406	467,70 €/St	HNS100GC
220/690 V	160 A	3 P	1	H406	670,10 €/St	HNS160GC



HNS040GC

Leistungsschalter, P160, 40 kA, 4-polig, elektronisch einstellbar (LSnl)

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	40 A	4 P	1	H406	630,50 €/St	HNS041GC
220/690 V	100 A	4 P	1	H406	630,50 €/St	HNS101GC
220/690 V	160 A	4 P	1	H406	837,50 €/St	HNS161GC



HNS041GC

Leistungsschalter, P160, 40 kA, 3-polig, elektronisch einstellbar (LSI)

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	40 A	3 P	1	H406	583,40 €/St	HNS040JC
220/690 V	100 A	3 P	1	H406	583,40 €/St	HNS100JC
220/690 V	160 A	3 P	1	H406	791,10 €/St	HNS160JC



HNS040JC

Leistungsschalter, P160, 40 kA, 4-polig, elektronisch einstellbar (LSI)

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	40 A	4 P	1	H406	786,70 €/St	HNS041JC
220/690 V	100 A	4 P	1	H406	786,70 €/St	HNS101JC
220/690 V	160 A	4 P	1	H406	905,60 €/St	HNS161JC



HNS041JC

Leistungsschalter, P160, 40 kA, 3-polig, elektronisch einstellbar (Energy)

Frequenz:

50/60 Hz

Bemessungsspannung	Nennstrom	Polanzahl	VPE	PrGr	Preis	Best.Nr.
220/690 V	40 A	3 P	1	H406	1.135,60 €/St	HNS040NC
220/690 V	100 A	3 P	1	H406	1.228,80 €/St	HNS100NC
220/690 V	160 A	3 P	1	H406	1.343,30 €/St	HNS160NC



HNS040NC



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