

hws air circuit breaker

Guaranteed protection



Better buildings
Better tomorrows

:hager

Smart.
Safe.
Simple.

Our new range of hws Air Circuit Breakers are designed for maximum safety, reliable performance and installation flexibility to cater to all the customer needs with unmatched performance and following advantages:

- ✓ Safety and compliance
 - ✓ Flexibility and adaptability
 - ✓ Performance and reliability
 - ✓ Advanced protection
- ✓ Easy installation and use
 - ✓ Easy maintenance
 - ✓ Communication and surveillance



hws air circuit breaker



Our hws circuit breakers are designed for maximum safety, reliable performance and installation flexibility. With international certifications and a comprehensive range of accessories, they meet the needs of the most demanding applications

Technical characteristics
Conforms to IEC 60947-2, CE Certification
Circuit breakers shall be: 3-pole or 4-pole version
Current Range: 630 – 4000 A in 2 frame sizes HWS2 and HWS4
Minimum breaking capacity of 50 kA up to 85 kA
Ics = 100% Icu = Icw for 1 Second
Fixed or draw out type with moulded design of contact chamber
Operational Voltage, Ue: 690 V AC, Impulse Withstand Voltage, Uimp: 12 kV Rated Insulation Voltage, Ui: 1000 V AC
Pollution degree 4 - ideal for harsh industrial environments
Operation at 50°C (ambient temperature) without derating
Electronic protection trip units with LSI or LSIG protection
Vertical or Horizontal convertible Rear Connections till 4000A

01 Safety and compliance

Our circuit breakers comply with IEC 60947 standards, ensuring maximum safety and proven reliability. All products are CE and CCC certified



02 Flexibility and adaptability

Two optimised frame sizes: Available with a current range of 630A to 4000A, our circuit breakers are suitable for a variety of diverse applications. No de-rating up to 50°C designed to operate efficiently even in high temperature environments.



03 Performance and reliability

Icu = Ics = Icw (1sec) ensures total selectivity and optimum protection against high short circuit faults. Breaking capacity adapted to various needs, guaranteeing reliable protection.

04 Easy installation and use

Rotatable connections facilitates horizontal and vertical busbars, simplifying installation for panel builders. Complete range available in drawout or fixed versions, manual or electric operation, circuit breaker or disconnecter version.



05 Advanced protection

Microprocessor based trip unit offers LSI and LSIG versions with advanced protections, power and energy measurements. Zone Selective Interlock (ZSI) provides intelligent discrimination for enhanced protection.

06 Accessories and easy maintenance

Includes options for locking and interlocking, safety and security. Contact wear status display for maintenance and extended equipment life.



07 Communication and surveillance

Incorporates RS485 Modbus communication for efficient monitoring and control. Ground fault protection offers increased safety from 10% of nominal rating.



Electronic trip units



Type L

Designed for standard applications with L, S, I, G protection, this electronic trip unit has a user interface with settings dials. Available in 2 models, LSI and LSIG



Type A

Enhanced by a LCD display with current measurement and L, S, I, G protection, this electronic trip unit can be installed in variety of applications.



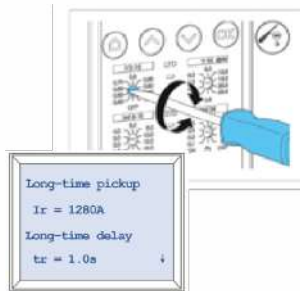
Type H

Designed for advanced applications of protection, alarm, measurement, control and inbuilt communication functions, this electronic trip unit has a user interface featuring touch controls completed by a large LCD display. It is available in LSIG version.

Key benefits hws

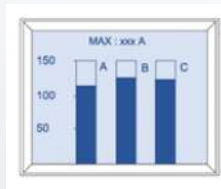
01 Dynamic settings display

The LCD display gives a precise indication of the setting values entered in amps and seconds. The navigation buttons on the electronic trip unit allow switching between screens displaying all possible settings of the electronic trip unit.



02 Dynamic load display

The main screen displays the maximum current flowing through the circuit breaker for the phase concerned.



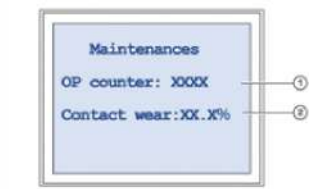
03 See the trip cause

After each tripping, a detailed message indicates the trip cause and trip details.



04 Maintenance indicator

Indicates the number of operations on the circuit breaker along with wear rate of the power contacts. Example: If the rate is 40, it indicates that the contacts are 40% worn. Indicates the number of operations on the circuit breaker. Indicates the wear rate of the power contacts.

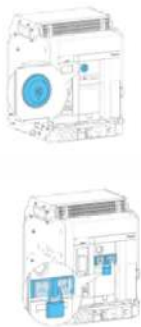


05 Zone Selective Interlock (ZSI)

This helps to limit the electro-dynamic stress on the installation in case of a short circuit fault or earth fault. The devices, conductors, busbars and busbar insulation and can thus benefit from this limitation.

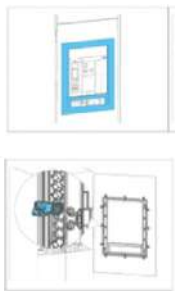
06 Quick and easy installation of the key locks

A single screw is enough to mount the OFF Locking Key (OLK) accessory on the front of the circuit breaker. This accessory is used to lock the OFF Button or to have an interlocking between several circuit breakers.



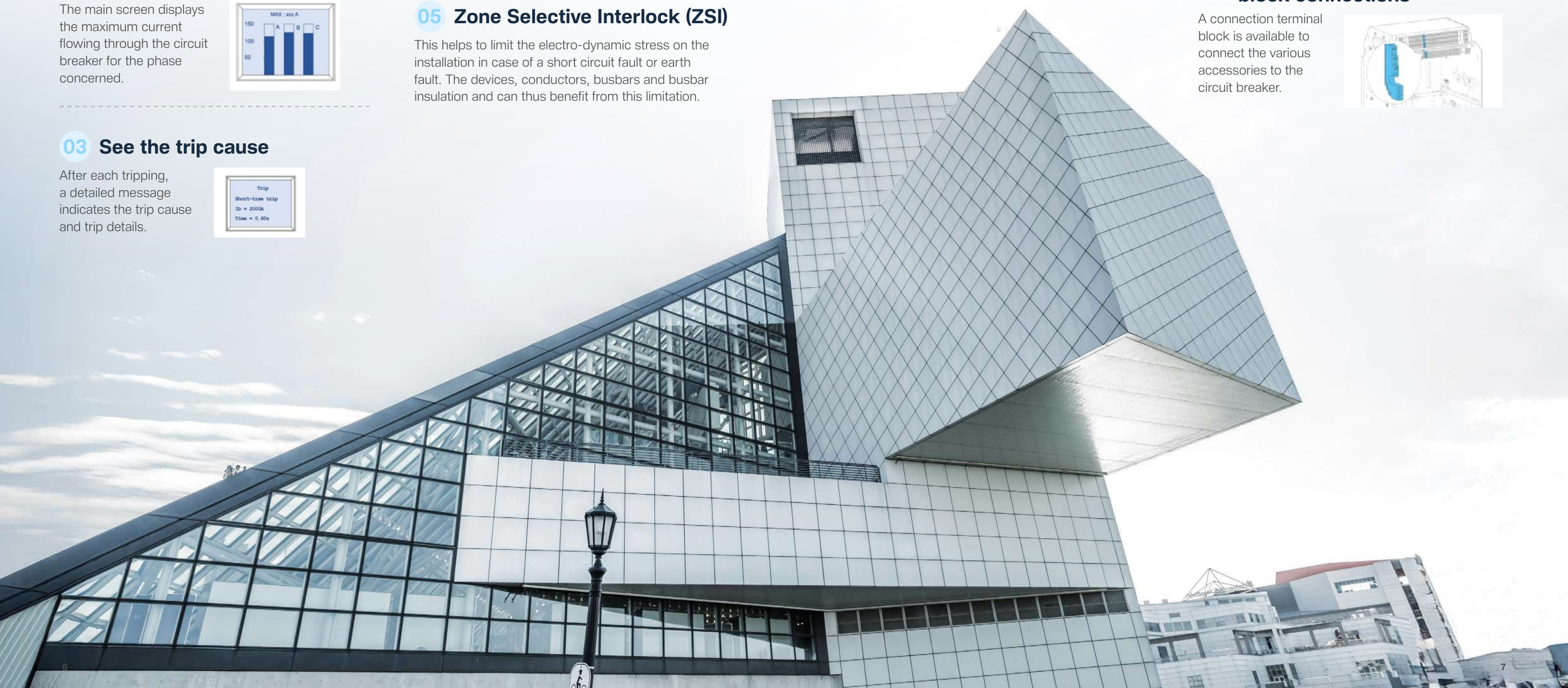
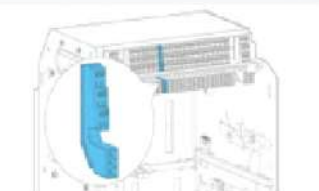
07 Quick-to-mount DF door flange

The door flange of the hws range includes clamps at the back, enabling quick, tool-free installation. It's also no longer necessary to drill holes on the enclosure door, saving time and efforts.



08 Screw-less terminal block connections

A connection terminal block is available to connect the various accessories to the circuit breaker.



Pro-business solutions provider

Hager offers solutions tailored to your business and your requirements. Ranges designed to meet your working requirements: ease, speed, peace of mind.



Panel builders

- ✓ Patented DF mounting without drill
- ✓ Motor + Coils can be delivered pre-assembled to save time
- ✓ Rotatable Vertical / Horizontal connections for flexibility
- ✓ Compatibility with Cu & Al busbar
- ✓ Screw less terminal block: user friendly wiring



Specifier

- ✓ Enhanced tripping information + live settings on Trip Unit display
- ✓ Integrated MODBUS: less wiring and complexity
- ✓ Inbuilt TRIP test through trip unit: assurance for safety



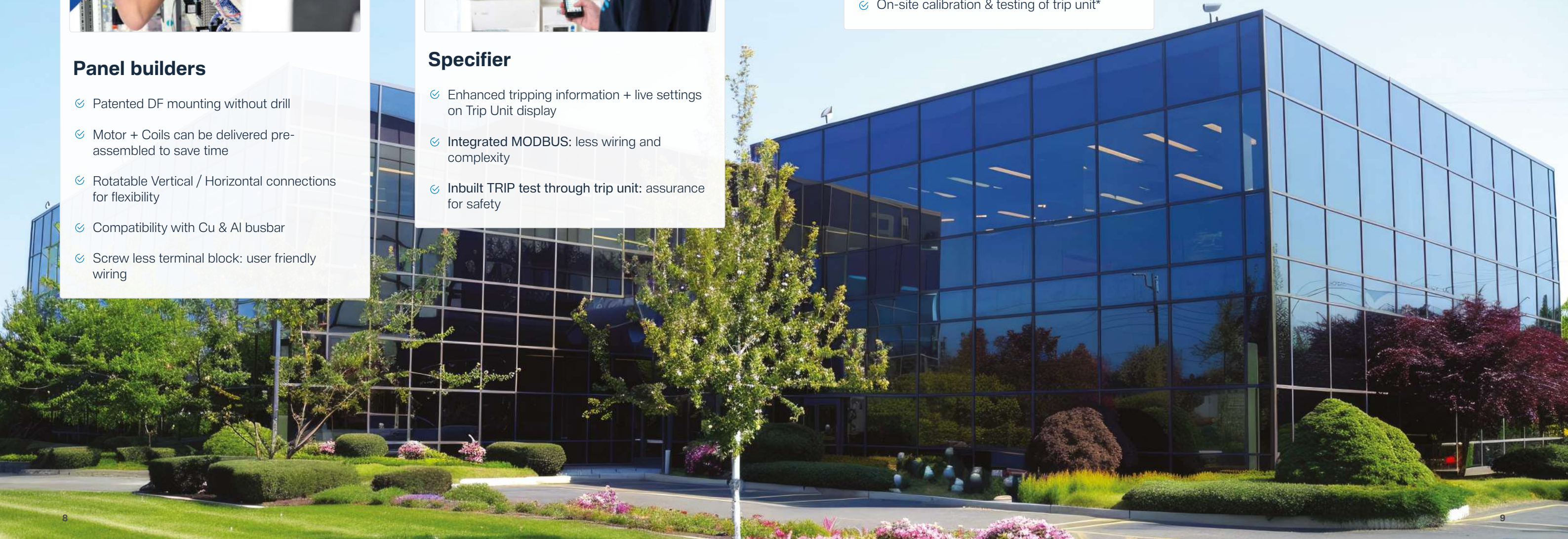
End users

- ✓ Breaker health status through contact wear indication: easy maintenance
- ✓ Inbuilt harmonics analysis up to 31st order: manage power quality
- ✓ Integrated advanced protections and load management
- ✓ No de-rating at higher ambient of 50° C: guaranteed performance
- ✓ Pollution degree 4: for harsh environments
- ✓ Full scope of multi-function metering
- ✓ On-site calibration & testing of trip unit*



Integrators

- ✓ The agardio ecosystem enables you to optimise the integration and commissioning of the solution.
- ✓ Quick, secure connection
- ✓ Cut your installation programming time by up to 80 %



Our network to serve you better

200+

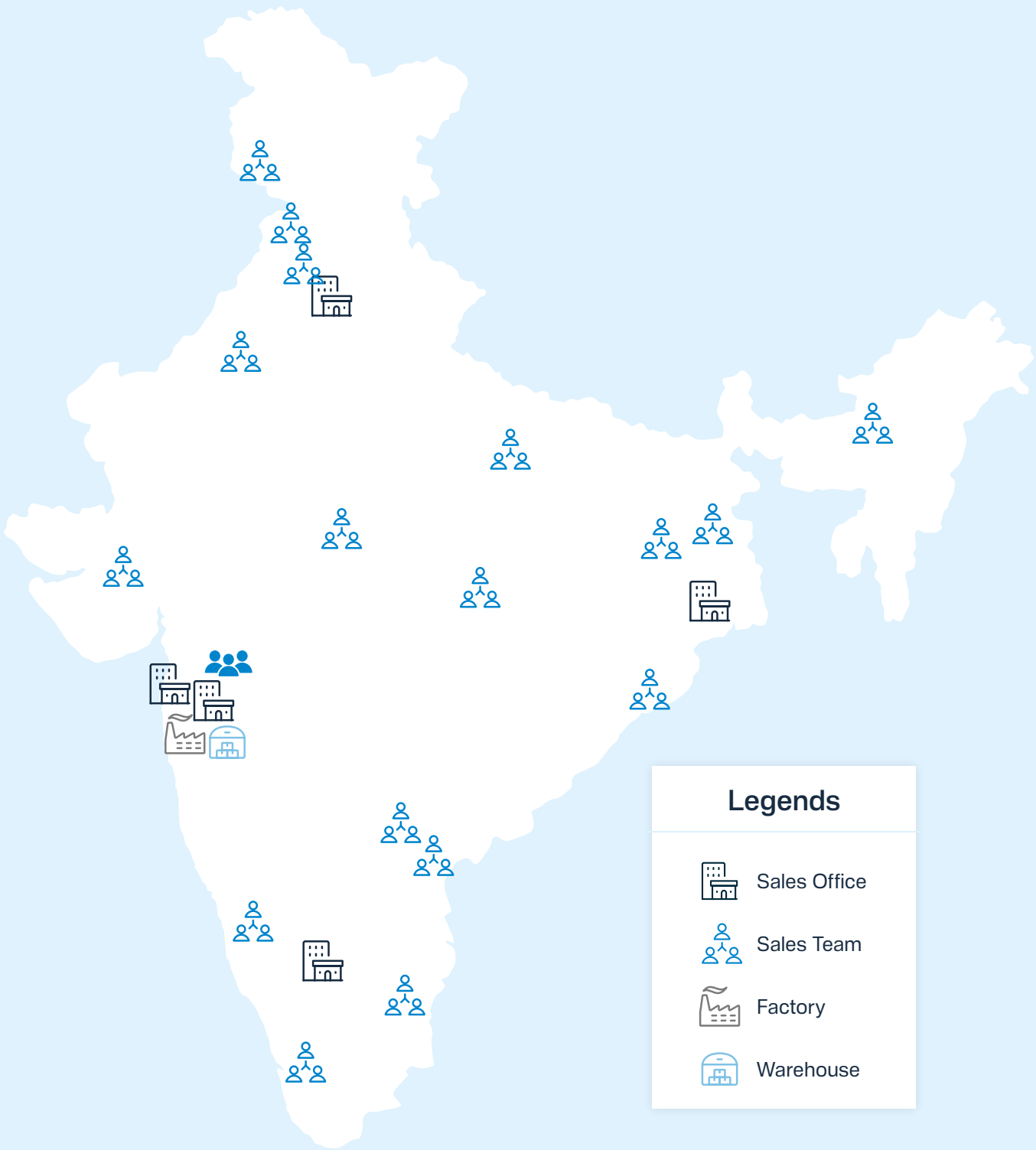
Authorised Channel Partners

20+

System Integrators

25+

Service Centers



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German Quality

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