

**SIEMENS**  
Ingenuity for life



One system.  
Worldwide application.

3VA molded case circuit breakers with  
UL certification – tested in accordance  
with the North American standard.

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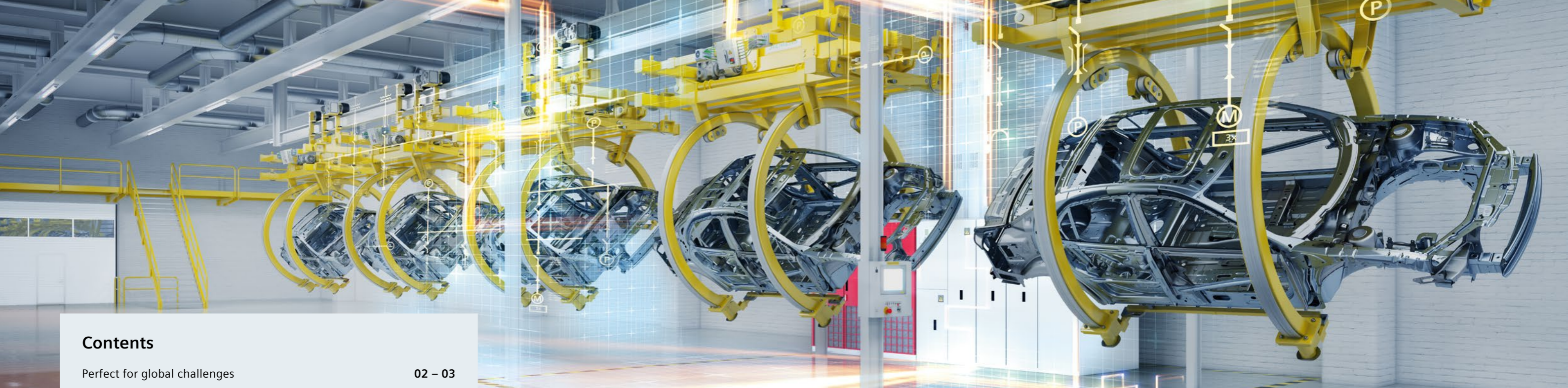
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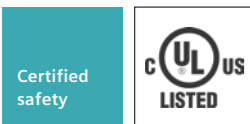
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# Perfect for global challenges



The 3VA UL molded case circuit breakers are ideal for machine builders and switch-gear manufacturers who export worldwide: In addition to the IEC standard, both 3VA5 and 3VA6 model ranges also meet the UL standard. You can use all the functionalities of the modular and highly variable molded case circuit breaker system for plants that operate in North America and in Europe.

That means:

- Tested in accordance with UL 489 and IEC 60947 to ensure conformity with standards
- Simplified planning and ordering processes
- Lower storage costs

## Molded case circuit breaker – heart of the electrical power distribution

Whether in industrial applications, buildings, or infrastructure: The 3VA range of molded case circuit breakers ensures reliable all-round protection of personnel and plants and additionally supports every process phase – from planning to the ongoing operation of an electrical power distribution.

### Individual solutions

With more than 500 accessory components, 3VA molded case circuit breakers can be configured as needed, expanded with additional functions, and flexibly tailored to meet specific requirements.

### Minimal effort

All product and planning data is available online. Using the QR code laser-printed on the device (Knowledge Manager), technical information can even be retrieved directly on-site at the plant. This significantly shortens the time required for commissioning and maintenance.

### More transparency

The integrated metering function of the 3VA6 molded case circuit breaker makes it possible to record the current, voltage, energy data, and plant conditions, for increased transparency of energy flows and higher plant availability.

### Reliable operation

The new “100% rated” versions of the 3VA6 molded case circuit breaker ensure additional safety: They can be operated continuously with 100% of the specified nominal current. They were specifically tested and certified for this kind of operation.

- Tested in accordance with UL 489 and IEC 60947-2
- Modular, sophisticated, and highly variable system
- Extensive accessories available
- Online access to all product and planning data
- Integrated metering function

## Ideal for standard applications: 3VA5 molded case circuit breaker

For standard applications in the electrical power distribution, the 3VA5 molded case circuit breaker is the optimal solution.

### Flexible use

With a rated current of 15 A to 250 A and a breaking capacity of up to 100 kA at 480 V, the 3VA5 molded case circuit breaker can be used in a wide range of applications in residential and commercial buildings, in infrastructure, and in industrial plants – all thanks to the worldwide IEC and UL certification.

### Reliable starter protection

The 3VA5 molded case circuit breaker ensure smooth operation – with the reliable protection of motor starter combinations thanks to a motor circuit protector.

### Expanded functions

The molded case switch version of the 3VA5 complies with IEC 60947-2 Annex L “CBI-X” (Circuit Breaker Interrupter) and features self-protection in a molded case circuit breaker design. This version enables you to safely disconnect individual plant sections from the grid. It perfectly complements the range of circuit breakers by adding further functionalities – in a consistent design and with the same accessories.



### 3VA5 technical data

- Line protection from 15 A to 250 A
- Breaking capacity up to 100 kA at 480 V
- 1- and 3-pole breaker variants
- Thermal-magnetic trip unit
- Also available as molded case switch and as motor circuit protector

## For challenging situations: 3VA6 molded case circuit breaker

The 3VA6 molded case circuit breaker is ideally equipped for your extended applications.

### Versatile use

Whether in the industrial sector or in infrastructure, 3VA6 molded case circuit breaker can handle any jobs that come their way, thanks to line protection from 40 A to 600 A, electronic trip unit, extensive communication options, and integrated metering functions for current, voltage, and energy values.

### Transparent in operation

You can easily integrate the 3VA6 molded case circuit breaker into higher-level energy management or automation systems. It reliably reports system status and measured values, helping you to increase plant availability and identify potential energy savings.

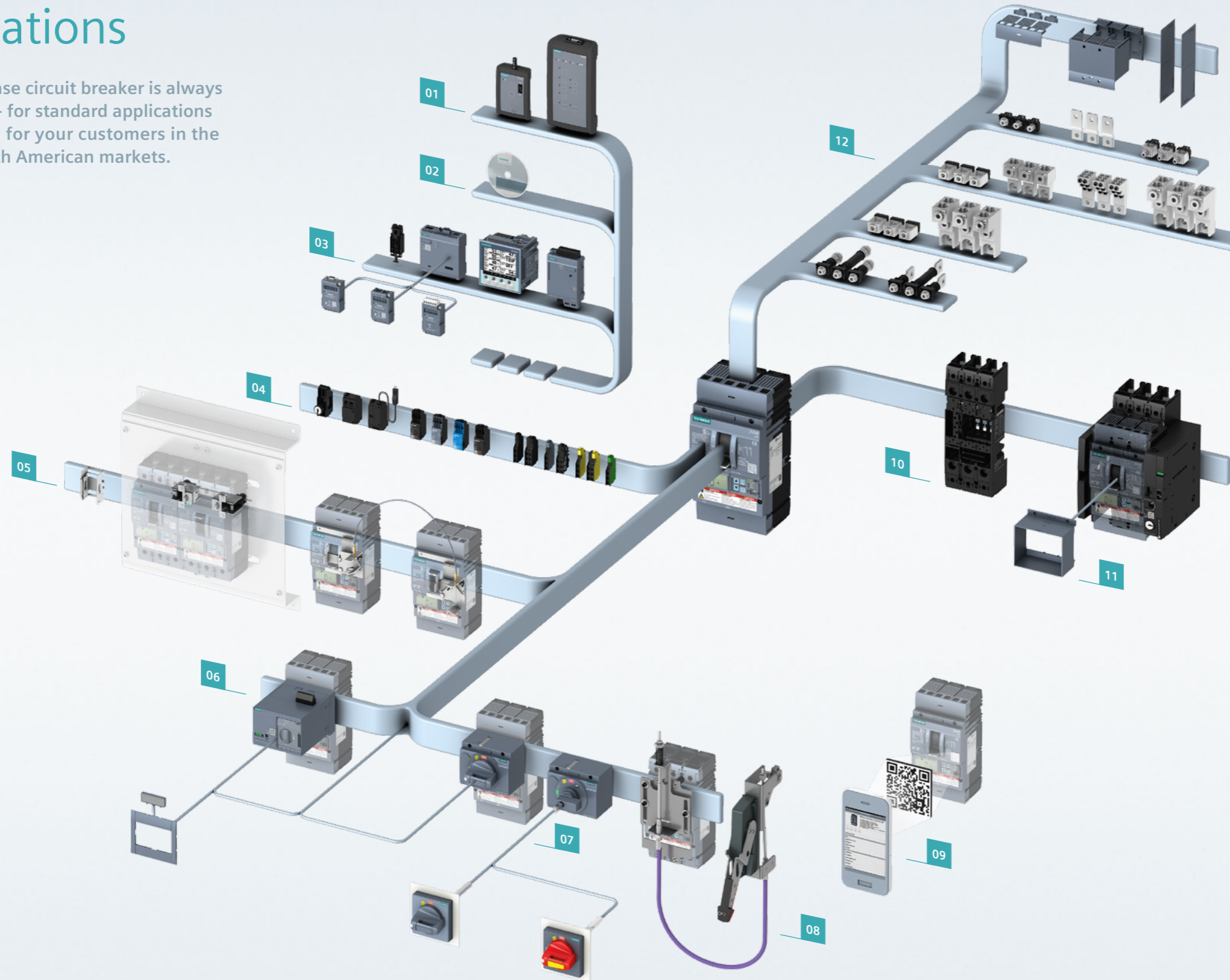


### 3VA6 technical data

- Line protection from 40 A to 600 A
- Breaking capacity up to 150 kA at 480 V AC
- 3- or 4-pole versions
- Electronic trip unit
- Integrated metering function for current, voltage, and energy values
- Optional communication connection via PROFIBUS, PROFINET, Ethernet (Modbus TCP), and Modbus RTU
- Easy integration into higher-level energy management and automation systems
- Also available as a molded case switch and as a motor circuit protector
- Different circuit breaker versions available as “100% rated” (continuous operation with nominal rated current)

# Nearly unlimited combinations

The 3VA molded case circuit breaker is always the right solution – for standard applications or extended tasks, for your customers in the European and North American markets.



Simply tailor the 3VA molded case circuit breaker to meet your needs – because all series are supplemented with a broad and uniform range of accessories.

Even feature enhancements are possible at any time – easy, fast, and nearly unlimited.

- 01 Test devices
- 02 powerconfig software
- 03 Communication
- 04 Internal accessories
- 05 Accessories for locking, blocking and interlocking
- 06 Motor operators
- 07 Manual operators
- 08 Max-Flex™ Bowden cable operator
- 09 Knowledge Manager
- 10 Plug-in technology
- 11 Draw-out technology
- 12 Connection technology

# Flexible planning

From the beginning, you can plan your power distribution to meet your specific requirements. You have access to a comprehensive product portfolio of basic breaker versions, accessories, and extensive planning data.

## Needs-based design

Select from more than 500 accessory components to create your solution and replace components as needed. A consistent accessories platform makes it all possible.

## Tailor-made application

The manual operator Max-Flex with Bowden cable can be conveniently ordered as a kit with a switching mechanism, Bowden cable, and metal handle. The parts are also available individually. The kit offers Bowden cables in varying lengths as well as handles for the 3VA5 and 3VA6 series.

With motor operators and manual operators with or without Bowden cable, with various locking options as well as auxiliary and alarm switches, you can respond flexibly to all requirements.

## Intelligent draw-out technology

To ensure flexible installation and removal of the molded case circuit breaker in the event of revisions or service, the draw-out technology is available as a complete kit or a conversion kit. This process is easily accomplished using a racking handle to crank the molded case circuit breaker out of or into the draw-out unit. The connection of the main circuits takes place via plug-in contacts. Thanks to this design, the molded case circuit breaker can be easily installed and removed, and it is possible to implement electrical isolation and a clearly visible opening distance.



3VA molded case circuit breaker with installed motorized operating mechanism



Manual operator Max-Flex with Bowden cable

Uniform internal accessories for both series



- Feature enhancements easy to implement
- Internal accessories can be combined in many variations
- Space-saving installation thanks to compact design
- Manual operating mechanism Max-Flex with Bowden cable
- Auxiliary and alarm switches as well as different shunt trip units

- Time savings and efficiency in planning, configuration, documentation
- Fast and easy product selection by means of configurators
- Provision of extensive CAx data
- Technical information can be retrieved at any time using the Knowledge Manager on the circuit breaker

## Reducing effort

Save valuable time when it comes to the planning, configuration, and documentation of your electrical power distribution. The 3VA molded case circuit breaker supports you throughout the entire engineering process and beyond.

### Fast selection

With Planning Efficiency™ and numerous intelligent tools, you will save valuable time when it comes to searching for products and transferring data. With the product configurator, it is easy and convenient to select the desired combination of basic device and accessories and subsequently extract them as a parts list or technical documentation.

### Extensive CAx data

The CAx Download Manager provides you with online access to all available CAx data types. 2D dimensional drawings and 3D models, product images, and EPLAN Electric P8 and ProPanel macros: A total of 12 different data types are available. With all this, you can save up to 80 percent of your valuable time.

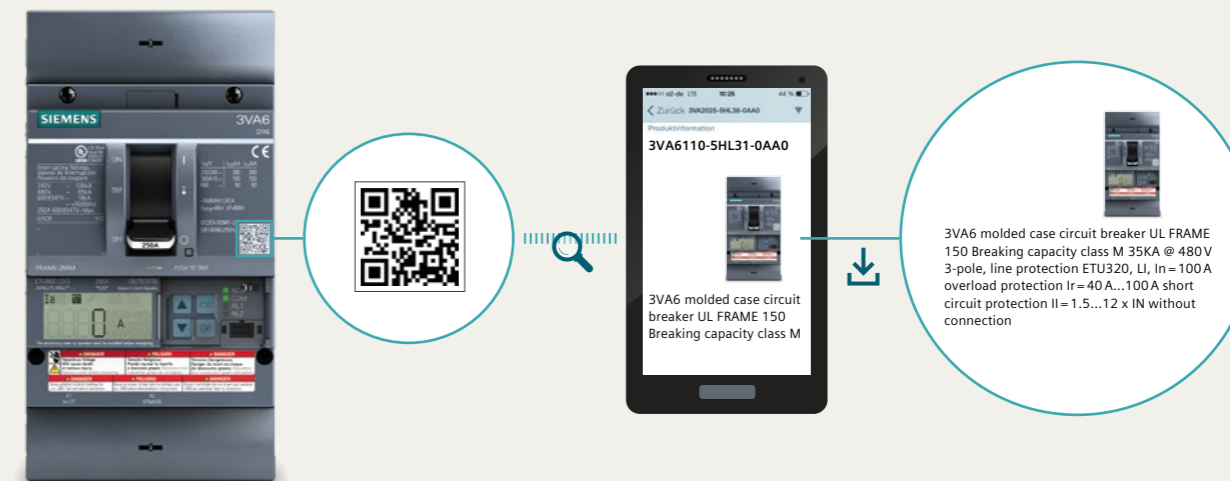
In addition, UL approved device circuit diagrams and product master data are available in the AutoCAD electrical catalog database.

### Mobile information

With the Knowledge Manager, you can access technical information at any time. Via the QR code lasered onto the molded case circuit breaker, for the first time you can retrieve all relevant data directly on site via smartphone or tablet – information such as characteristic curves, certificates, or manuals. This significantly reduces the time needed to collect information – time that is often limited – during service calls, for instance.

### Knowledge Manager – all information retrievable on site

If technical information is required during installation, configuration, or maintenance, you can retrieve it directly on site via a QR code. This provides you with access to information that is completely up to date – failsafe, worldwide, and available 24/7.



A clearly visible QR code is located on every 3VA molded case circuit breaker.

A smartphone or tablet can be used to scan the QR code. For the full range of features, use the free "Industry Support" app from Siemens to scan the QR code.

This feature enables you to directly view or download all relevant product information.

# Collecting relevant data

The electrical power distribution is facing new requirements as a result of the increasing level of automation in building and industrial operations. The focus is on the reliable protection of personnel, high plant availability, direct control options, and improved energy efficiency.

The 3VA6 molded case circuit breakers provide for a consistently safe, efficient, and flexible supply of energy. At the same time, they ensure smooth production processes because they can be seamlessly integrated into digital environments.

### Integrated metering functions

The 3VA6 model range with an electronic trip unit (ETU) from the 8-series is ideally equipped to collect and transmit energy-relevant data.

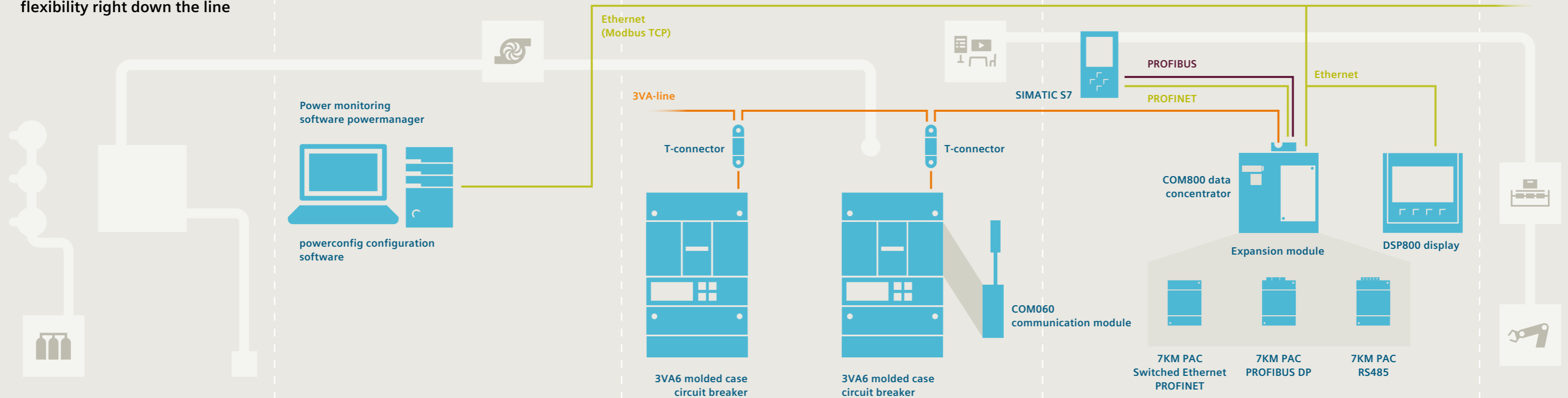
This offers you an integrated metering function – for the end-to-end monitoring and evaluation of current, voltage, and energy values. You can immediately increase the transparency of the energy flows and optimize energy consumption and efficiency. In addition, plant conditions are monitored so that you can quickly and flexibly respond to faults at any time.

### Integration into the automation system

The 3VA6 molded case circuit breakers can be connected to higher-level energy management or automation systems via the standard PROFIBUS, PROFINET, Ethernet (Modbus TCP), and Modbus RTU bus systems. The values of up to eight devices can be bundled with the help of a data concentrator and transferred to higher-level systems. This means that energy- and plant-relevant data is available at any time.

- Integrated metering function for current, voltage, and energy values (ETU 8-series)
- Continuous overview of breaker status and measured values
- Communication connection via PROFIBUS, PROFINET, Ethernet (Modbus TCP), and Modbus RTU
- DSP800 display installed in the control cabinet displays the measured data from up to eight molded case circuit breakers

## Diverse communication options – flexibility right down the line



# Accelerating processes

With CAx data for all conventional configuration tools, you can reduce the time required for the mechanical and electrical planning process steps as well as the plant documentation by as much as 80 percent and save costs as a result.

We offer you one of the most extensive data offerings: Up to 12 CAx data types actively support you during the entire engineering process.

### 24/7 service

On the Internet, the CAx Download Manager provides you with fast and easy access to all product types – free of charge and around the clock.

### Within seconds

The required data can be flexibly compiled, downloaded within seconds, and smoothly integrated into all the conventional configuration tools. This approach provides you with time savings of as much as 95 percent compared to manual data searches.

### Error-free

The central provision of high-quality data replaces the manual acquisition and generation of 2D dimensional drawings or connection diagrams, for example. Errors caused by manual data generation are avoided.

## Detailed view of the 12 CAx data types

Take advantage of our broad range of data and benefit from significantly reduced time and effort, higher planning quality, and reduced costs.

Commercial and technical data	Dimensional drawings	3D models	Connection diagrams
Device circuit diagrams	EPLAN electrical and ProPanel macros	Operating instructions	Manuals
Product data sheets	Characteristic curves	Certificates	Product images
<a href="http://www.siemens.com/lowvoltage/cax">www.siemens.com/lowvoltage/cax</a>			

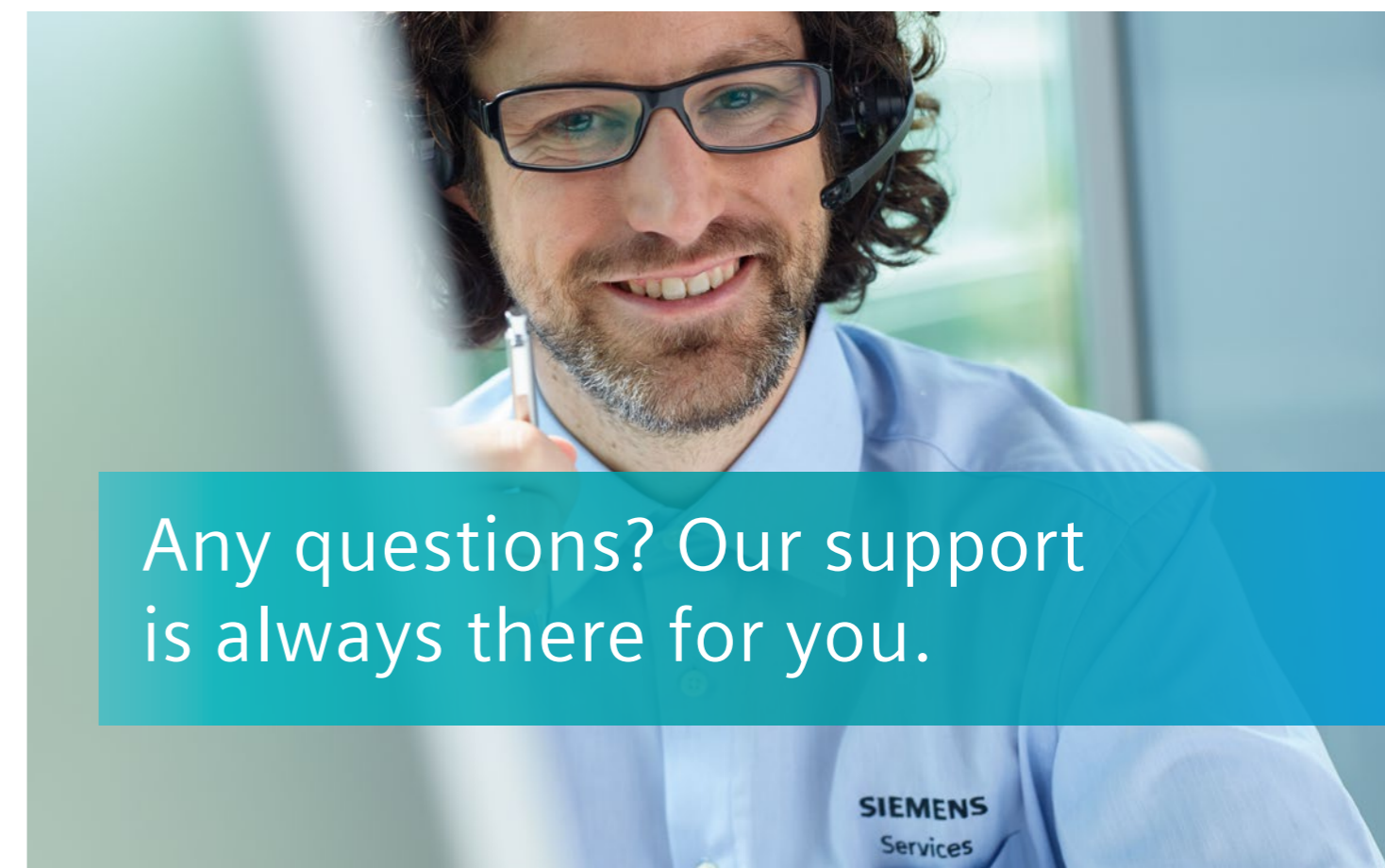
## Do you still have questions about 3VA molded case circuit breakers?

If so, please take advantage of our comprehensive support. We are happy to assist you at any time, from planning to commissioning to operation.

Information	Planning/Ordering	Operation/Service	Training
<ul style="list-style-type: none"> <li>Website</li> <li>Catalogs and brochures</li> <li>Newsletter</li> <li>Image database</li> </ul>	<ul style="list-style-type: none"> <li>Industry Mall</li> <li>Configuration</li> <li>SIMARIS planning tools</li> <li>CAx Download Manager</li> </ul>	<ul style="list-style-type: none"> <li>Siemens Industry Online Support (SIOS)</li> <li>My Documentation Manager</li> <li>Technical Support</li> <li>Support Request</li> </ul>	<ul style="list-style-type: none"> <li>SITRAIN Portal</li> <li>Siemens Power Academy</li> <li>BT Academy</li> </ul>

**Technical Assistance:**  
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[siemens.com/lowvoltage/support](http://siemens.com/lowvoltage/support)



Any questions? Our support is always there for you.