

Molded Case Circuit Breakers

3VA Molded Case Circuit Breakers

General data

Overview

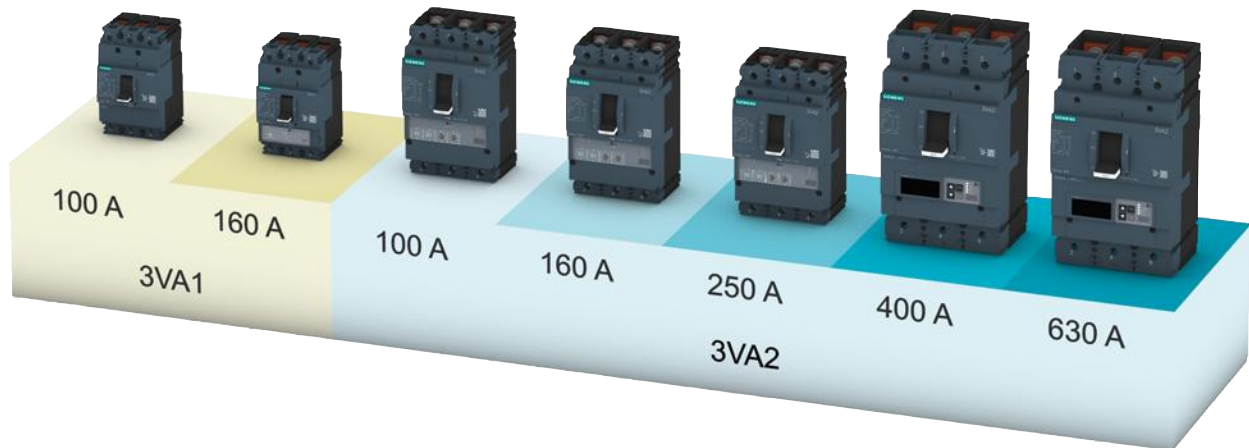
Sizes

The integrated 3VA portfolio consists of two different series of molded case circuit breakers in five different rated operational current versions (sizes).

The new 3VA molded case circuit breakers set new standards in flexibility and the variety of modular accessories available. Standardized accessories suitable for use with several sizes of circuit breaker from all the 3VA ranges help to cut costs and save time.

The new 3VA1 molded case circuit breakers are available in 1 to 4-pole versions (3VA1 160 A) or in 3 and 4-pole versions (3VA1 100 A). The new 3VA2 molded case circuit breakers are available in 3 and 4-pole versions.

The circuit breakers are available with rated operational currents ranging from 16 A to 630 A and rated voltages up to 690 V, depending on the series and size.



3VA1 molded case circuit breakers

The new 3VA1 molded case circuit breakers reliably perform all the tasks required for line protection.

Characteristics

The key features of the 3VA1 series are:

- Compact design
- Depending on size: 1-pole to 4-pole versions
- Depending on size: Breaking capacity of 16 kA ... 70 kA at 415 V, 3 or 4-pole breakers and 36 kA at 240 V, 1-pole breakers
- Fixed-mounted, plug-in version
- Thermal-magnetic trip units
- AC/DC applications
- No derating up to +50 °C
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA molded case circuit breakers

3VA2 molded case circuit breakers

The new 3VA2 molded case circuit breakers reliably perform all the tasks required for line and generator protection.

This series is designed for applications with increased requirements:

- Increased breaking capacity
- Very good selective protection response
- Integrated metering function
- Connection to a fieldbus communication system

Characteristics

The most important features of the 3VA2 series are:

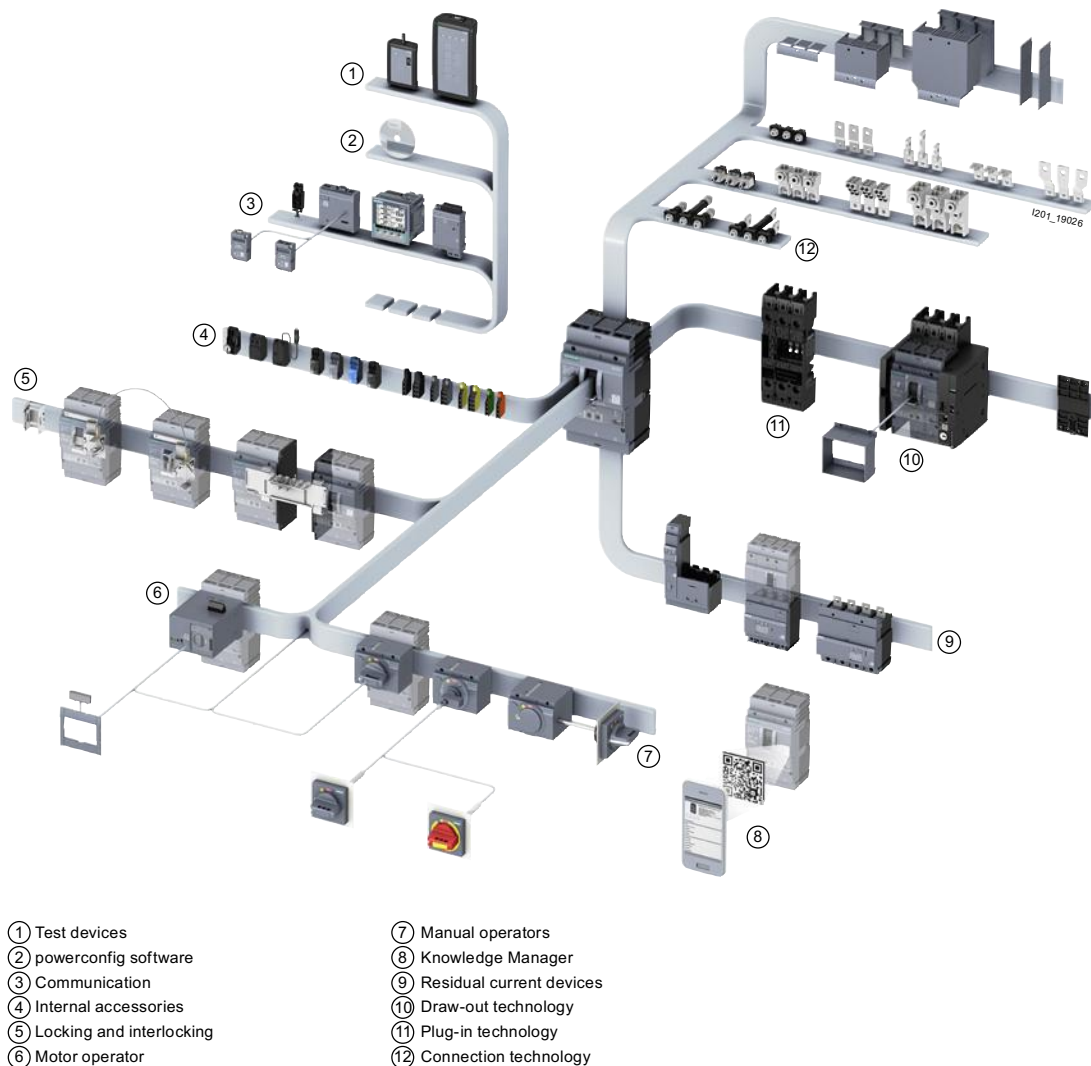
- Compact design
- 3 and 4-pole versions
- Four breaking capacity classes from 55 kA ... 150 kA
- Fixed-mounting, plug-in technology, draw-out technology
- Depending on size: Selective protection response in rated operational current interval 1 : 2.5
- Electronic Trip Units
- Retrofittable communication for ETU 5-series and 8-series
- Depending on the ETU: Integrated metering function
- AC applications
- No derating up to +50 °C
- Modular and easy-to-fit internal accessories with diverse functions
- Uniform accessories platform across all 3VA molded case circuit breakers

Integrated system

When it comes to operation, functionality and installation, the new 3VA series of molded case circuit breakers is a fully integrated system. This principle is embodied in the basic units and in all internal and external accessories.

The benefits offered by the internal and external accessories available for the 3VA molded case circuit breakers are:

- Standardized methods of operation
- Standardized scope of functions
- Standardized installation procedures
- Standardized accessories from 100 A ... 630 A (e.g. auxiliary switches, auxiliary releases, etc.)



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|----------------------------|----------------------------|
| ① Test devices | ⑦ Manual operators |
| ② powerconfig software | ⑧ Knowledge Manager |
| ③ Communication | ⑨ Residual current devices |
| ④ Internal accessories | ⑩ Draw-out technology |
| ⑤ Locking and interlocking | ⑪ Plug-in technology |
| ⑥ Motor operator | ⑫ Connection technology |

You will find further information and also selection and ordering data in the 3VA molded case circuit breakers catalog with the Article No. E86060-K8220-E480-A4-7600.