

3VA and 3VM Molded Case Circuit Breakers

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[siemens.com/3VA](https://www.siemens.com/3VA)





Introduction

Low Voltage & Products

Consistent product portfolio for the IEC market

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Industrial applications

Process automation



Factory automation



Infrastructure and buildings

Industrial buildings



Infrastructure



Commercial buildings



Residential buildings



VCB



ACB



MCCB



LBS



PMC



MCB, RCD, fuses, SPD, AFDD



Switching and control devices



Distribution boards



Switches and socket outlets



Medium & Low Voltage Partnering System

SIMOPRIME & Sivacon S8



Low-Voltage Power Distribution Products

SENTRON-Products

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SENTRON Air Circuit Breakers

3WL: 630 - 6300 A

3WT8: 630 - 4000 A



SENTRON Fuse Switch Disconnectors

3NP1: 160 - 630A

3NJ4: 160 - 1250A



SENTRON Switch Disconnectors with Fuses

3KL/3KF: 63 - 800A

3NJ62: 63 - 630A



SENTRON Molded Case Circuit Breakers

3VA1: 16 - 1000A

3VA2: 25 - 1600A

3VM1: 16 - 630A



3VL: 16 - 1600A

3VT: 16 - 1600A



PHASEOUT



Product Cancellation
October 2020

Siemens AG 20

Product Cancellation
October 2019

SENTRON Main and Emergency STOP Switches

3LD2: 16 - 250A

3KD: up to 1600A



SENTRON Power Monitoring Devices

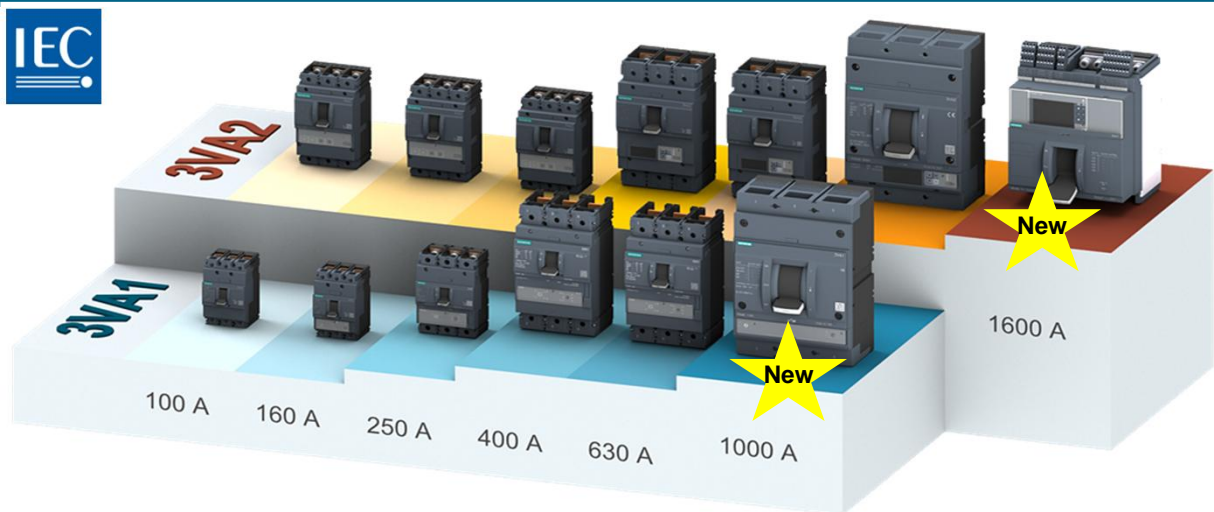
7KM



3VA and 3VM Product Overview

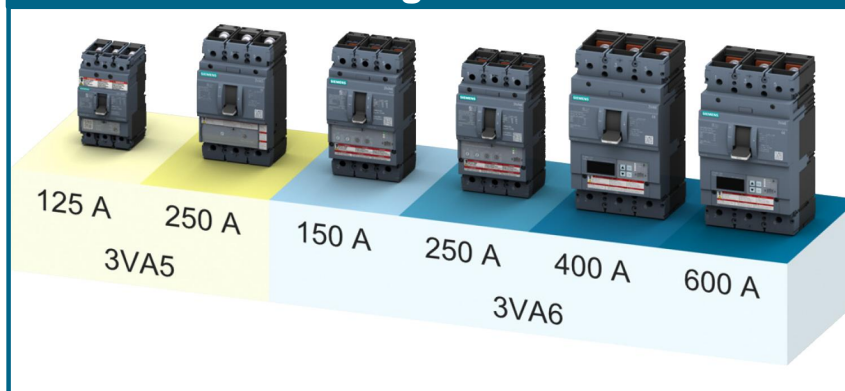
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3VA – Line according to IEC 60947

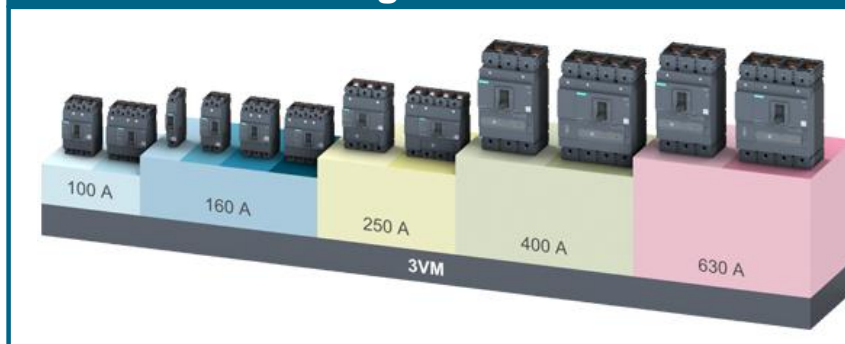


3VA1 breakers are equipped with Thermal Magnetic Trip Unit (TMTU)
3VA2 breakers are equipped with Electronic Trip Units (ETU)

3VA – Line according to UL489 / IEC 60947



3VM Line according to IEC 60947



3VA and 3VM Molded Case Circuit Breakers

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3VA molded case circuit breaker

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Welcome to the World of 3VA !

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Rotary double
contact system

Compact and packed
with innovations

Large ETU display

Optimized connectivity

Power metering according
to IEC 61557-12

Integrated voltage tab

Excellent selectivity

PROFINET

S0 interface

Communication

Modbus RTU

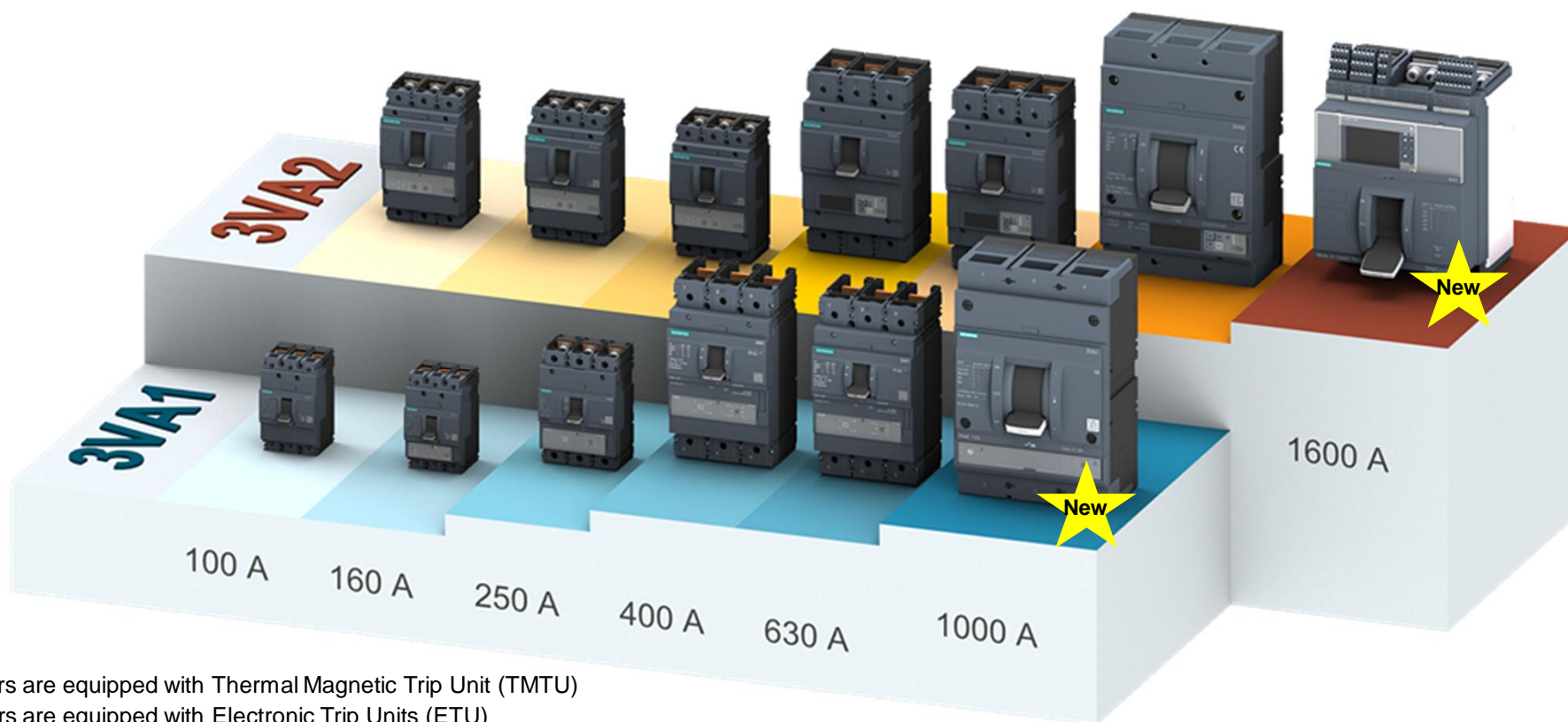
Very high breaking capacity
up to 150 kA

Modbus TCP

Profibus DP

3VA molded case circuit breaker

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3VA1 breakers are equipped with Thermal Magnetic Trip Unit (TMTU)
3VA2 breakers are equipped with Electronic Trip Units (ETU)

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3VA1 molded case circuit breaker

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The world's smallest molded case
circuit breaker with up to 70 kA and $I_{cs} = 100\% I_{cu}$!

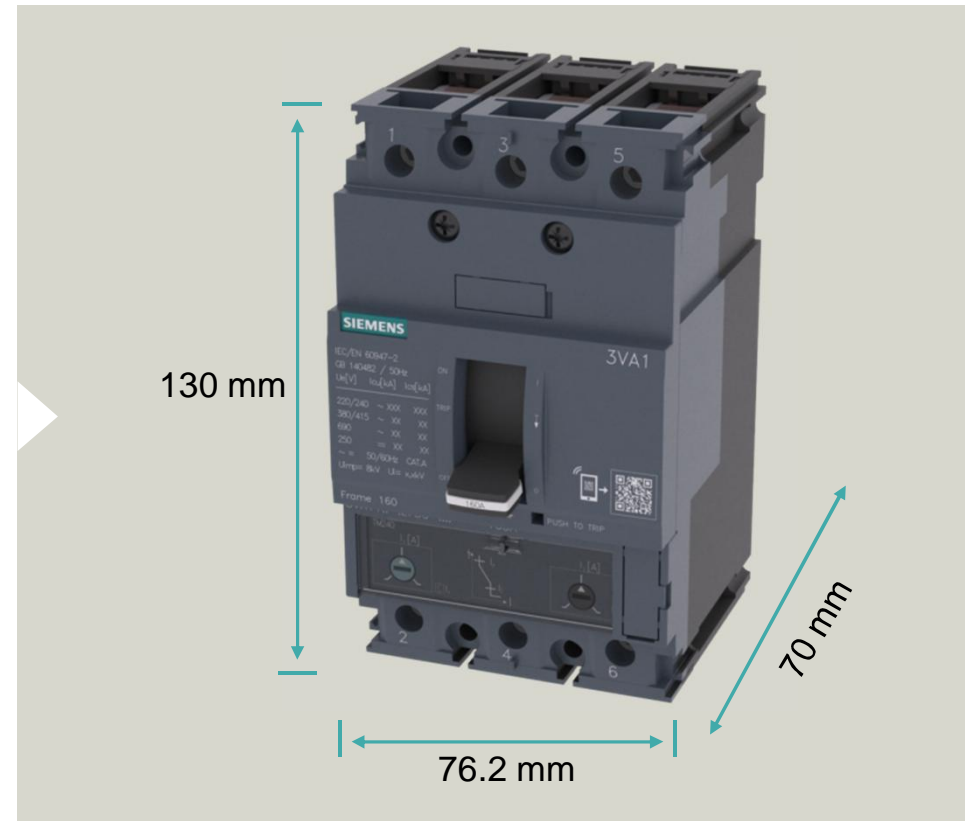


3VA1 molded case circuit breaker Highlights

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Line / generator / starter protection

- Compact design
(3VA1 frame size 160A è 48% smaller than 3VL160X)
- Rated currents from 16A up to 630A
- Breaking capacity classes from 16 kA to 70 kA @ 415 V AC
- Thermal-magnetic trip unit
- 1- to 4-pole breakers available
(1- and 2-pole in frame size 160 A)
- "Real" switch disconnecter up to 630A¹⁾ according to IEC 60947-3 also available in MCCB design
- Complete and uniform accessory platform across all 3VA molded case circuit breakers



3VA1 molded case circuit breaker

Frame sizes and nominal current

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3VA1 Frame Sizes and Rated Currents							
Rated Current In/A		3VA10 100 A	3VA11 160 A	3VA12 250 A	3VA13 400 A	3VA14 630 A	3VA15 1000 A
	16	3p, 4p	1p, 2p, 3p, 4p				
	20	3p, 4p	1p, 2p, 3p, 4p				
	25	3p, 4p	1p, 2p, 3p, 4p				
	32	3p, 4p	1p, 2p, 3p, 4p				
	40	3p, 4p	1p, 2p, 3p, 4p				
	50	3p, 4p	1p, 2p, 3p, 4p				
	63	3p, 4p	1p, 2p, 3p, 4p				
	80	3p, 4p	1p, 2p, 3p, 4p				
	100	3p, 4p	1p, 2p, 3p, 4p				
	125		1p, 2p, 3p, 4p				
	160		1p, 2p, 3p, 4p	3p, 4p			
	200			3p, 4p			
	250			3p, 4p			
	320				3p, 4p		
	400				3p, 4p		
	500					3p, 4p	
	630					3p, 4p	3p, 4p
	800						3p, 4p
	1.000						3p, 4p

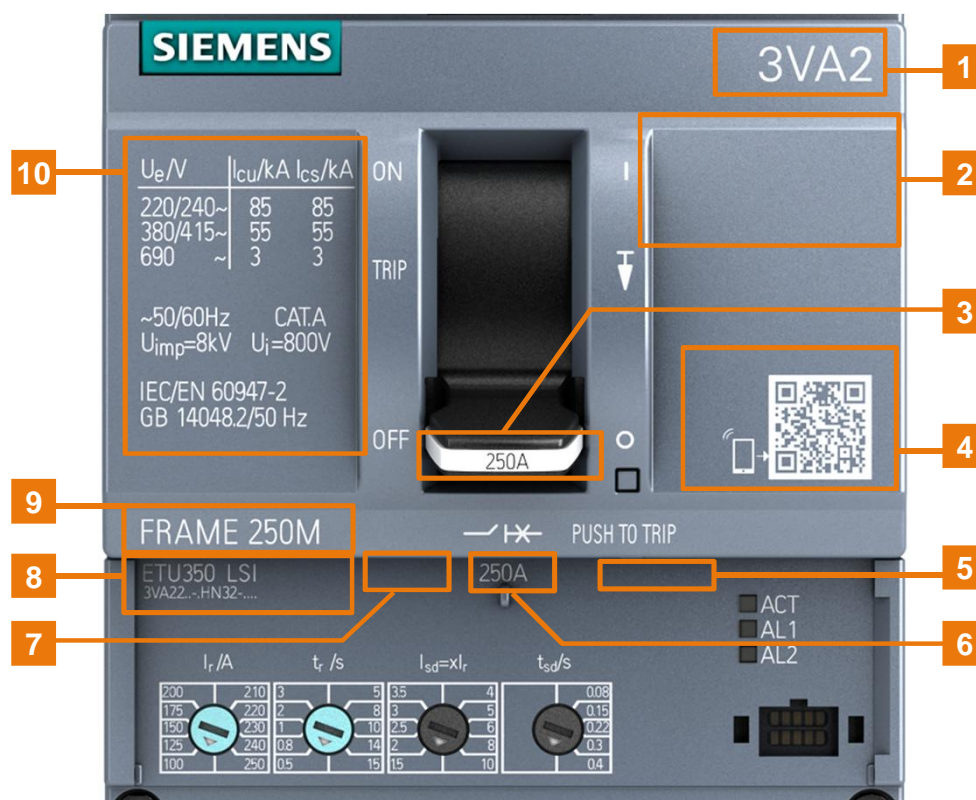


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Labelling of 3VA Breakers

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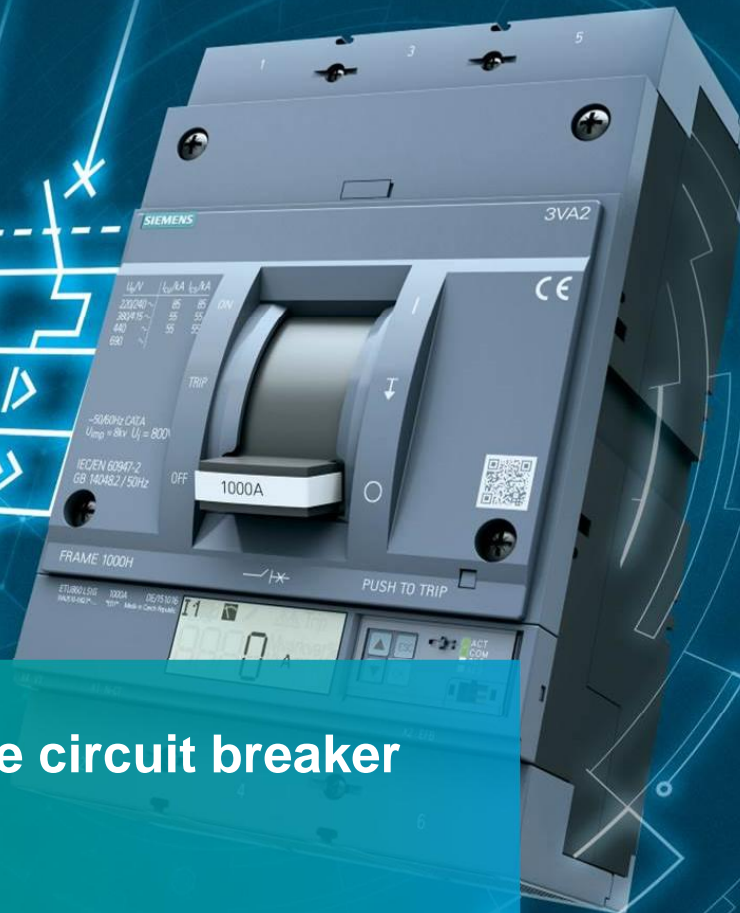
- 1 Breaker type
- 2 Approbations
- 3 Rated current
- 4 Knowledge Manager
- 5 Serial number
- 6 Rated current
- 7 Product version
- 8 Trip unit type and order no.
- 9 Size and breaking capacity class
- 10 Name plate



3VA1 molded case circuit breaker Trip Units

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3VA1 molded case circuit breaker

Trip unit overview

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SD100		Switch Disconnector
TM210		Line Protection: FTFM (Fixed Thermal, Fixed Magnetic)
TM220		Line protection: ATFM (Adjustable Thermal, Fixed magnetic)
TM240		Line Protection: ATAM (Adjustable Thermal, Adjustable Magnetic)
TM110M / TM120M		Motorstarter Protection FM / AM: (Fixed Magnetic / Adjustable Magnetic)

Line / Generator protection / Switch disconnectors

- Line protection TM210, TM220, TM240
- Switch disconnector SD100
- Starter protection TM110M and TM120M
- Neutral protection available for 4-pole breakers: 0%, 50%, and 100%
- Usable for AC and DC networks
- No derating up to 50° C



3VA2 molded case circuit breaker (up to 1000A)

Overview / Technical Data

3VA2 molded case circuit breaker



- Rated currents 25 A – 1000 A
- Short-circuit breaking capacity 55 kA – 150 kA @ 415 V
- Communication via Ethernet (Modbus TCP), Modbus RTU, PROFIBUS, PROFINET
- Metering function according to IEC 61557-12
- Line, motor, starter and generator protection

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- Rated currents 800 A – 1600 A
- Short-circuit breaking capacity 55 kA – 110 kA @ 415 V
- Communication via Ethernet (Modbus TCP), Modbus RTU, PROFIBUS, PROFINET *
- Metering function according to IEC 61557-12
- Line, motor, starter protection and non-automatic air circuit breaker

3VA2 molded case circuit breaker up to 1000 A Highlights

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Line / generator / motor / starter protection

- Rated currents 100 A – 1000 A
- Four breaking capacity classes
- Selective protection with a nominal current ratio of 1:2.5
- Electronic trip units (ETU 3-series, ETU 5-series, ETU 8-series)
- ETU 8-series with integrated metering function
- Communication via Ethernet (Modbus TCP), Modbus RTU, PROFIBUS, PROFINET
- Complete and uniform accessory platform across all 3VA molded case circuit breakers

Molded Case Circuit Breaker 3VA2 up to 1000A Frames and Rated Currents

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3VA2 – Frame Sizes and Rated Currents						
3VA2	3VA20 100 A	3VA21 160 A	3VA22 250 A	3VA23 400 A	3VA24 630 A	3VA25 1000A
25	3p, 4p	3p, 4p				
40	3p, 4p	3p, 4p				
63	3p, 4p	3p, 4p				
100	3p, 4p	3p, 4p				
160		3p, 4p	3p, 4p			
250			3p, 4p	3p, 4p		
400				3p, 4p	3p, 4p	
500					3p, 4p	
630					3p, 4p	3p, 4p
800						3p, 4p
1000						3p, 4p





3VA2 molded case circuit breaker (up to 1000A) Trip Units

3VA2 molded case circuit breaker up to 1000A Electronic Trip Units

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ETU 3er-series



- Rotary switch with absolute values in Amps

Line / generator protection:

- ETU320 LI
- ETU330 LIG
- ETU350 LSI

Line Protection

- ETU340 fuse characteristic (ELISA)

Motor protection:

- ETU350M LSI

Starter protection:

- ETU310M I

ETU 5er-series



- Display with menu
- Optional communication available
- Optional external N-CT

Line / generator protection:

- ETU550 LSI
- ETU560 LSIG

Motor protection:

- ETU550M LSI

Starter protection:

- —

ETU 8er-series



- Display with menu
- Power metering
- Optional communication available
- Optional external N-CT

Line / generator protection:

- ETU850 LSI
- ETU860 LSIG

Motor protection

- ETU860M

Starter protection:

- —



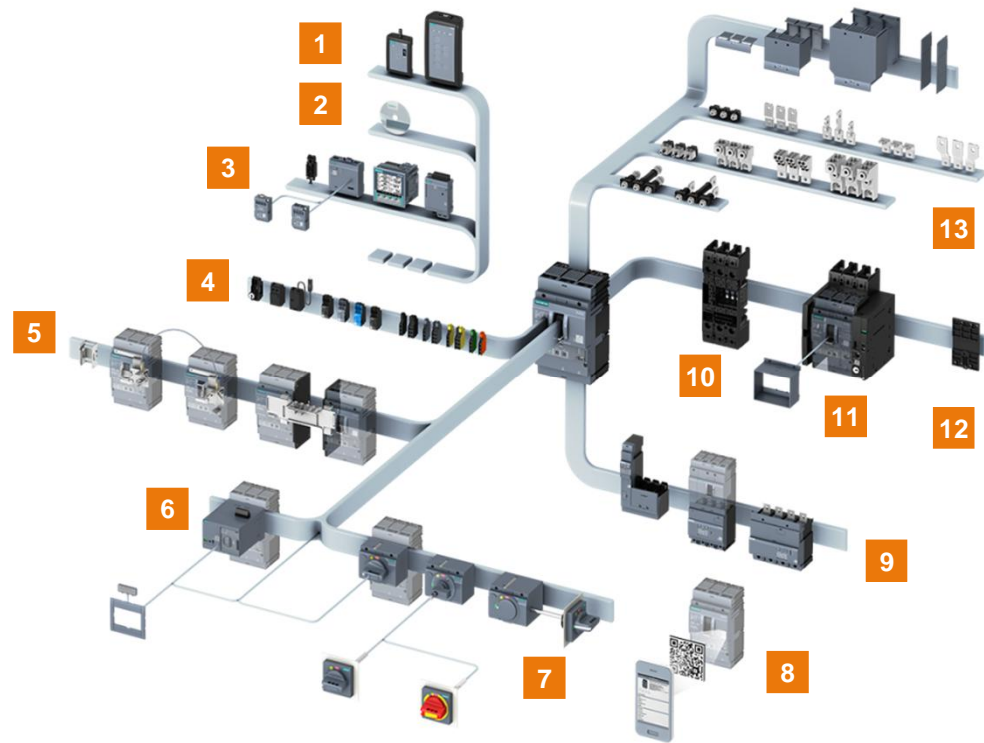
3VA molded case circuit breaker (up to 1000A) Accessories

3VA molded case circuit breaker

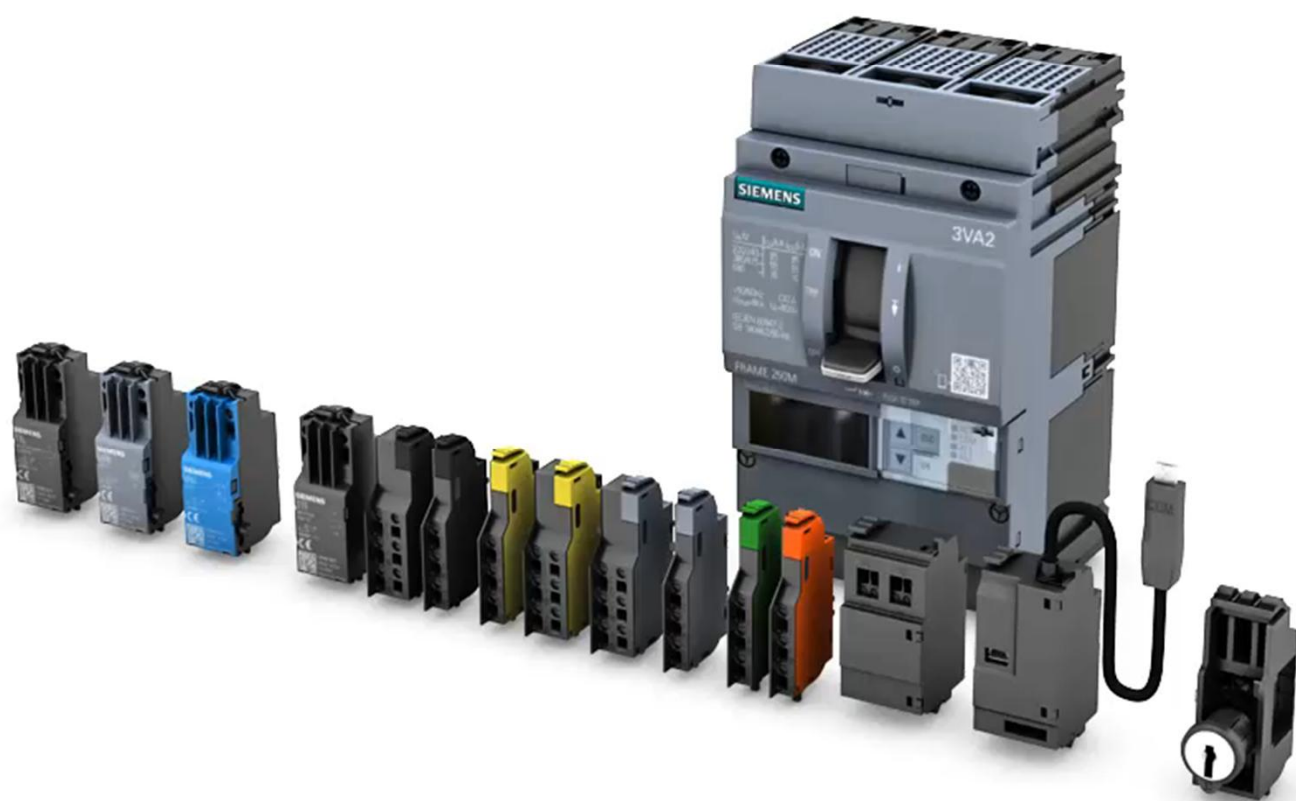
Extensive and flexible accessories

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



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Internal accessories for 3VA1 and 3VA2 up to 1000A

Manifold functions and easy installation

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Leading changeover switch (LCS_HQ + LCS_HP)

High switching capacity and compact size
see contact sequence diagrams 3VA Manual

Universal release (UNI)

Undervoltage release (UVR)

Shunt trip (STL) Left

Shunt trip (STF) Flexible (Flexible use for 3VA2 only)

Short circuit alarm switch (SAS_HQ, for 3VA1 only) Compact size

Electrical alarm switch (EAS_HQ, for 3VA2 only) Compact size

Cylinder lock adapter

Electronic component (COM060) Communication

Electronic component (24 V module) Power supply

Trip alarm switch (TAS_HQ + TAS_HP) High switching capacity and compact size

Auxiliary switch (AUX_HQ + AUX_HP) High switching capacity and compact size

Motor operators for 3VA up to 630A

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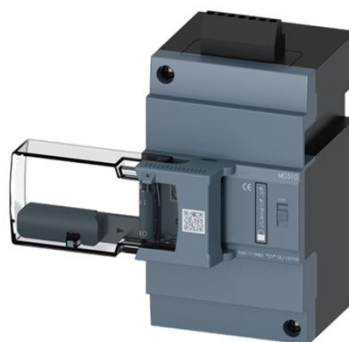
Front Mounted Motor Operator MO320

- Motorized remote control of 3VA MCCBs
- The MO320 front-mounted motor operator is available for all 3VA MCCBs up to 630A
- Available for several standardized voltage levels



Side Mounted Motor Operator MO310

- Motorized remote control of 3VA1 MCCBs
- The MO310 front-mounted motor operator is available for all 3VA MCCBs up to 160A
- Available for several standardized voltage levels



Stored Energy Operator SEO520

- Remote control of 3VA2 MCCBs through charged springs (ON/OFF)
- Communications capable and non communications capable
- The SEO520 front-mounted motor operator is available for all 3VA2 MCCBs up to 250A
- Available for several standardized voltage levels



Manual operators Overview

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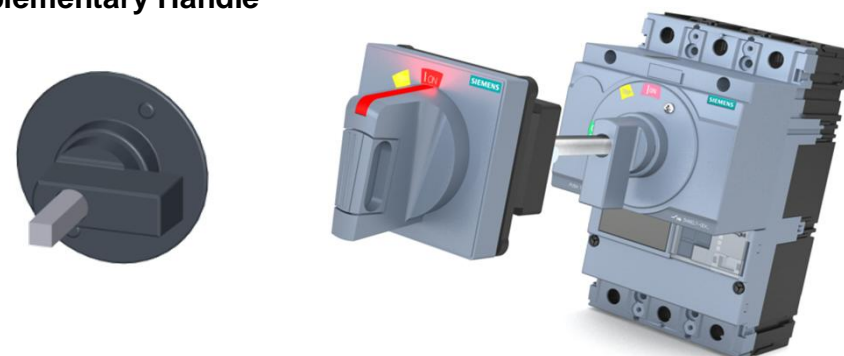
Front Mounted Rotary Operator



Door Mounted Rotary Operators



Supplementary Handle



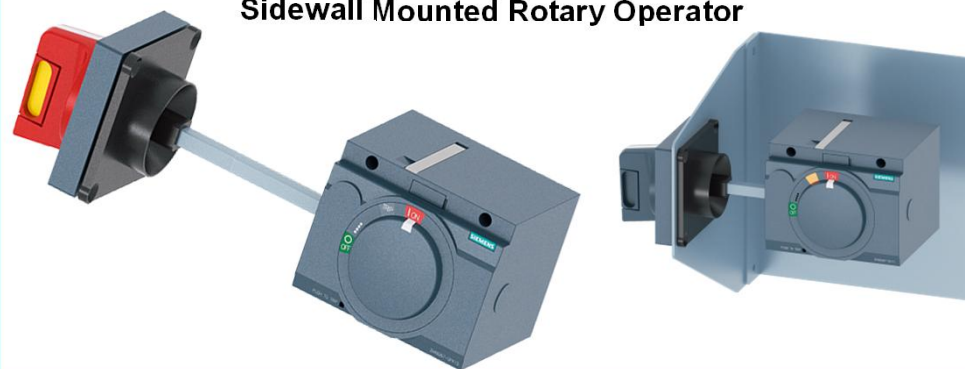
Rotary operator with shaft stub



Illumination Kit



Sidewall Mounted Rotary Operator



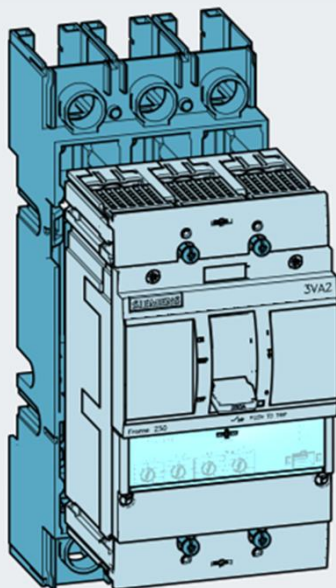
3VA Plug In Units and Withdrawable Units

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Plug In Units

Available for:

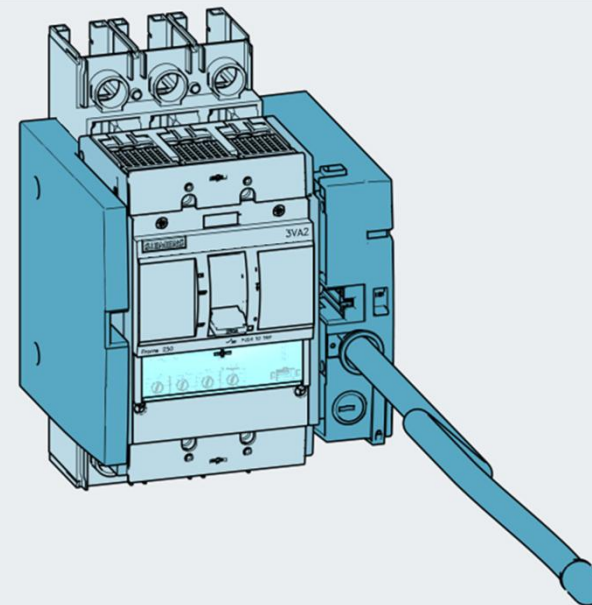
- 3VA11 – 3VA14
- 3VA20 – 3VA24



Withdrawable Units

Available for:

- 3VA12 – 3VA14
- 3VA20 – 3VA24

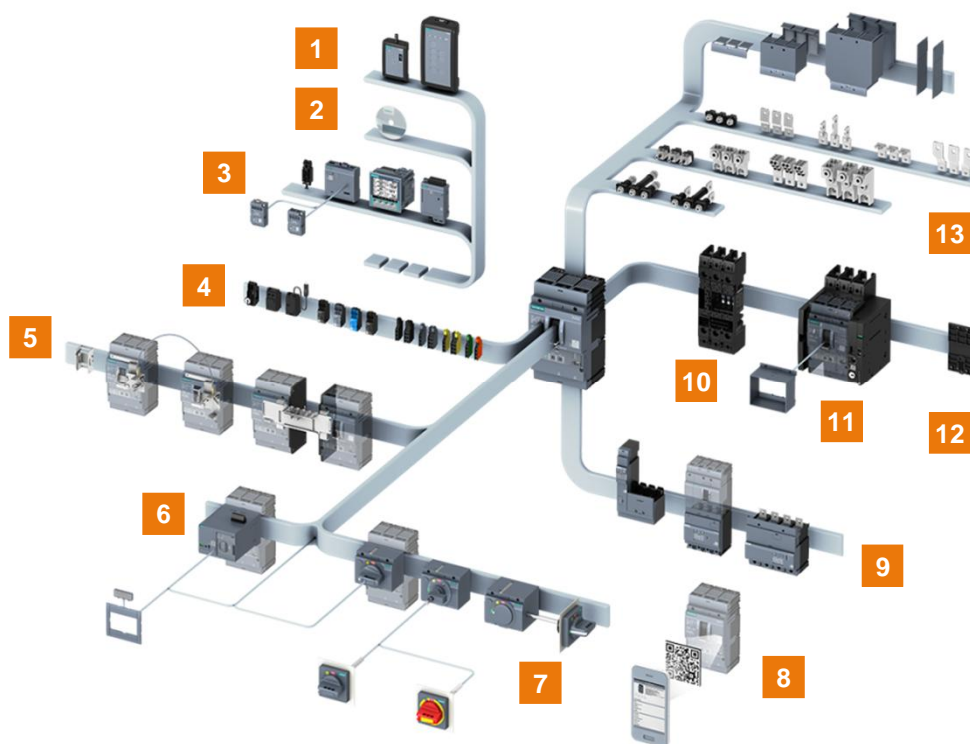


3VA molded case circuit breaker

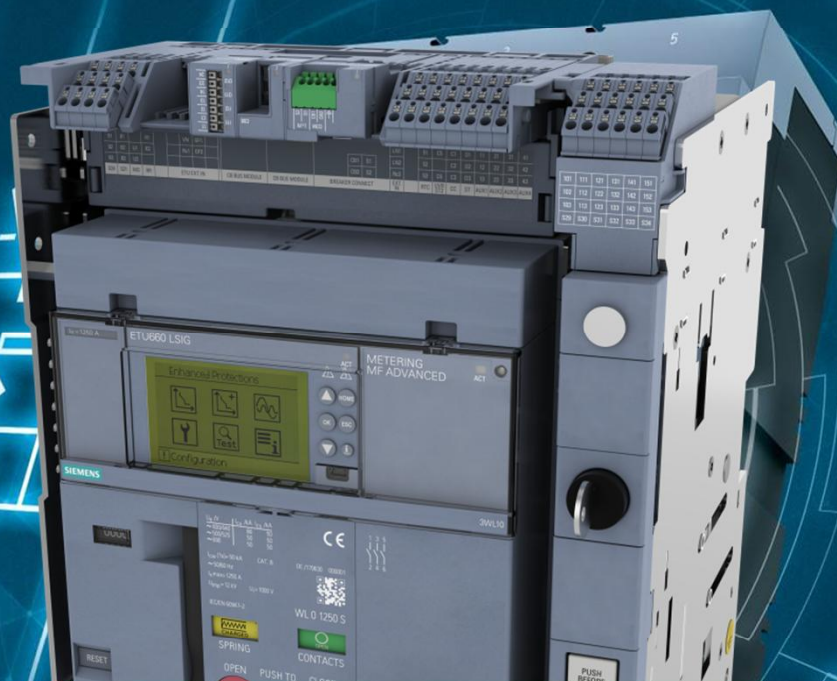
Extensive and flexible accessories

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

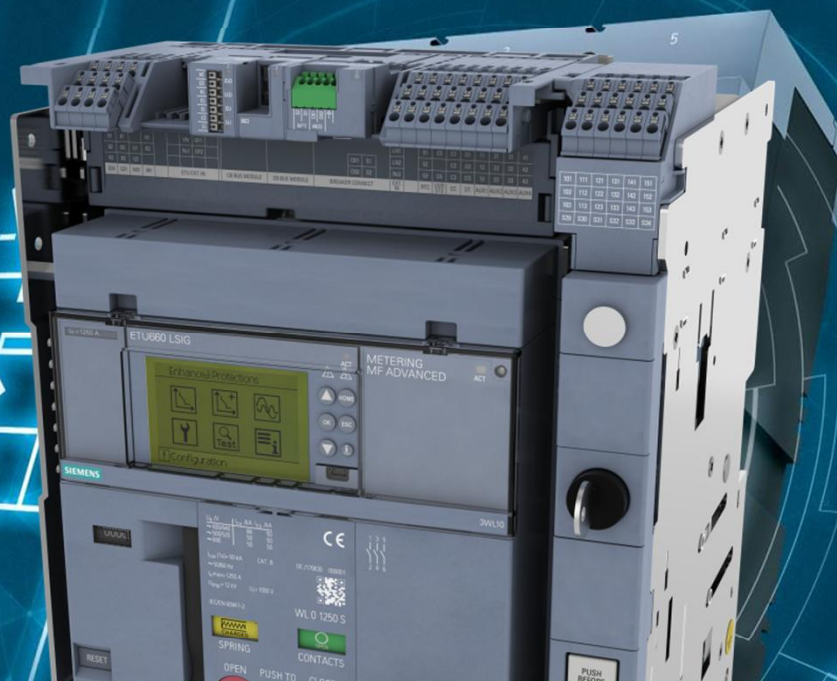


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The 3VA27 molded case circuit breaker

800 A up to 1,600 A



The 3VA27 molded case circuit breaker

Overview / Technical Data

3VA2 molded case circuit breaker



- Rated currents 25 A – 1000 A
- Short-circuit breaking capacity 55 kA – 150 kA @ 415 V
- Communication via Ethernet (Modbus TCP), Modbus RTU, PROFIBUS, PROFINET
- Metering function according to IEC 61557-12
- Line, motor, starter and generator protection

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- Rated currents 800 A – 1600 A
- Short-circuit breaking capacity 55 kA – 110 kA @ 415 V
- Communication via Ethernet (Modbus TCP), Modbus RTU, PROFIBUS, PROFINET *
- Metering function according to IEC 61557-12
- Line, motor, starter protection and non-automatic air circuit breaker

The 3VA27 molded case circuit breaker

Overview

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Depending upon the application, the 3VA27 molded case circuit breaker takes over the **line/motor/starter protection** within the low voltage power distribution and provides a supplement to the existing 3VA IEC portfolio.

The 3VA27 is designed for applications with the following requirements:

- Circuit breakers for AC according to IEC 60947-2
- Non-automatic air circuit breakers in circuit breaker design according to IEC 60947-3
- Integration option in switchboards according to IEC 61439
- High breaking capacity up to 110 kA (I_{cu} at 415 V)
- Communication capability
- Metering function according to IEC 61557-12
- Available with toggle lever or stored energy mechanism



One molded case circuit breaker – two possible operating mechanisms

Two operating mechanisms are available for the 3VA27, having no influence on the current limiting contact system of the 3VA27.



3VA27 with stored energy mechanism
(motor operator capability)¹⁾



3VA27 with toggle operating mechanism

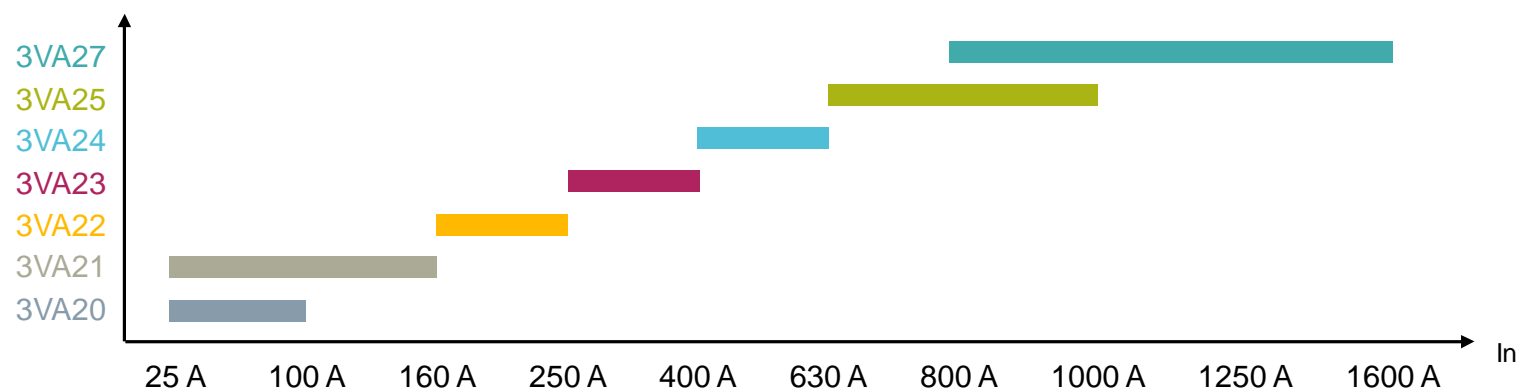
è typically for molded case circuit breakers tripping is indicated by the "trip position"

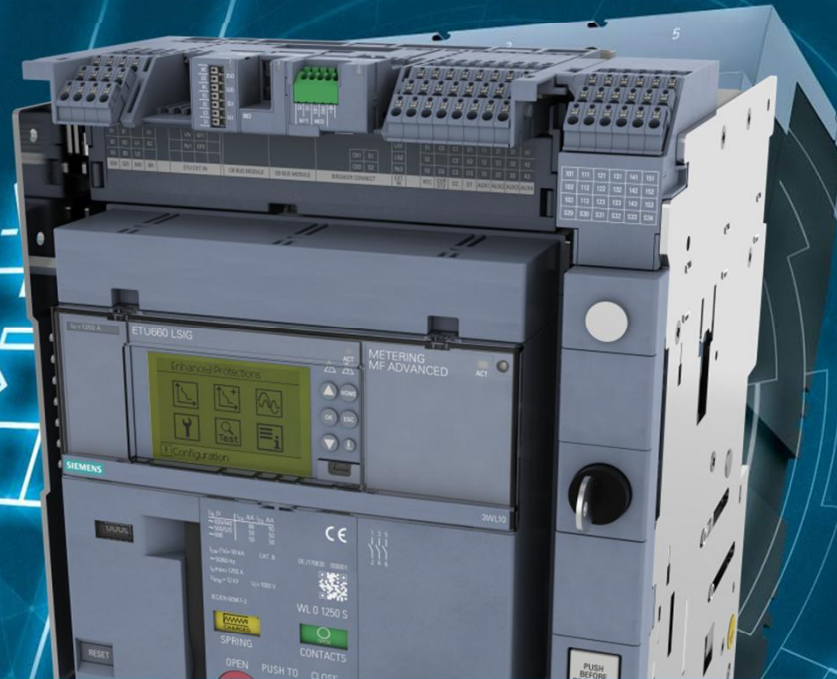
3VA27 technical specifications

Integration of the 3VA27 into the Siemens 3VA2 portfolio



I _{cu} (415 V)							
Class	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA27
L	150	150	150	-	-	-	-
C	110	110	110	110	110	110	110
H	85	85	85	85	85	85	85
M	55	55	55	55	55	55	55



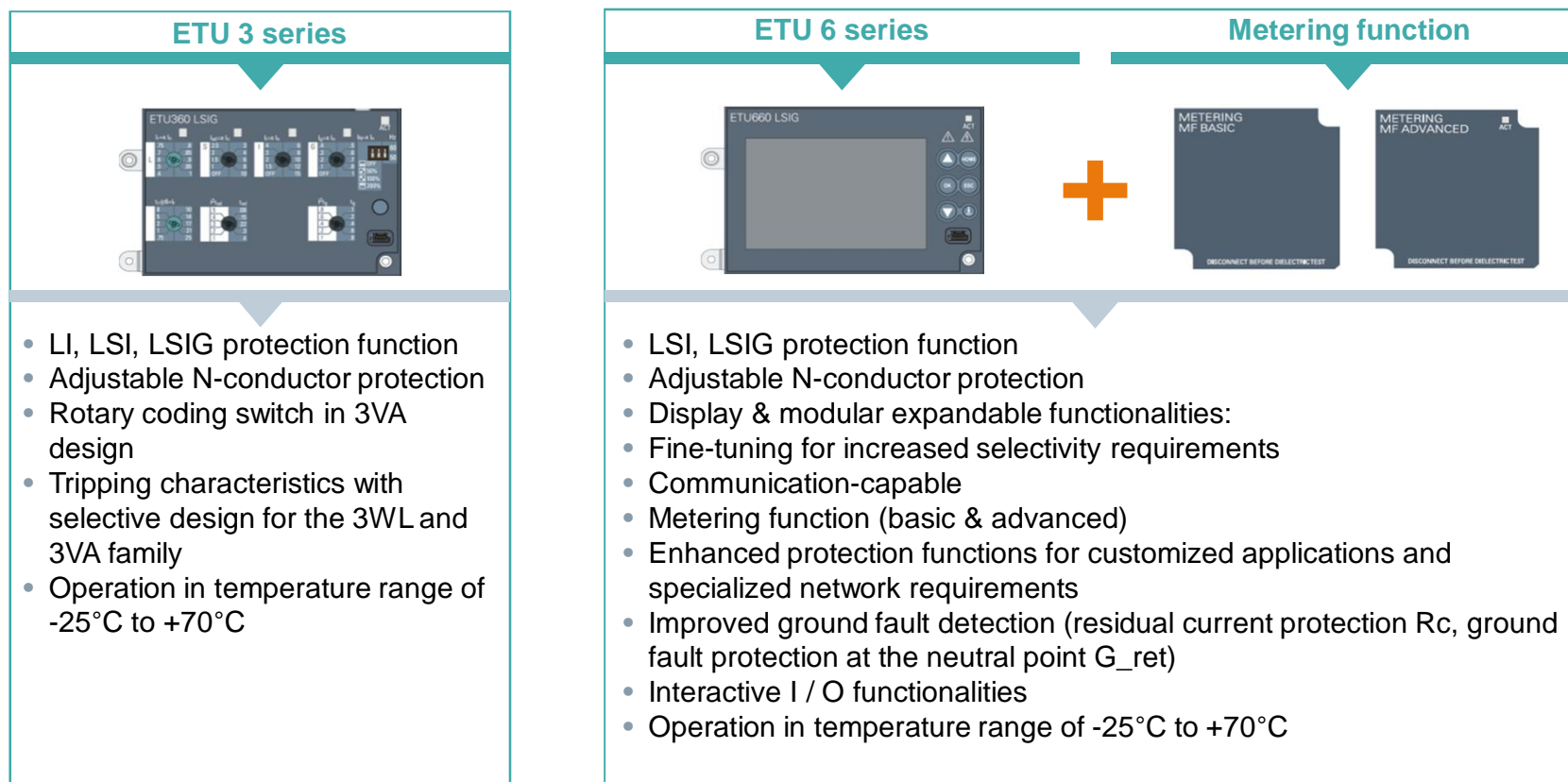


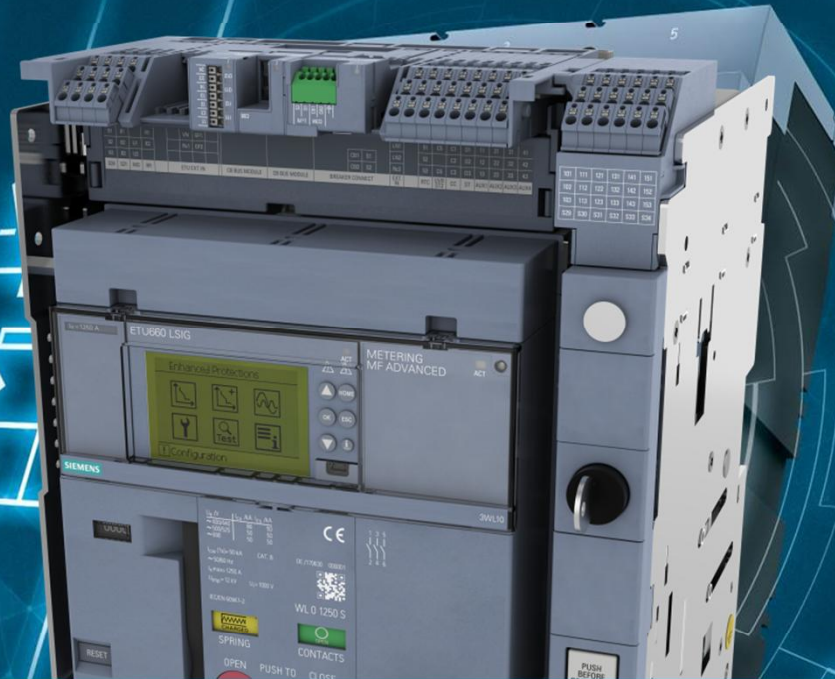
The 3VA27 molded case circuit breaker

Trip Units

Electronic trip units and metering functions of the 3VA27 3/6-series ETU overview

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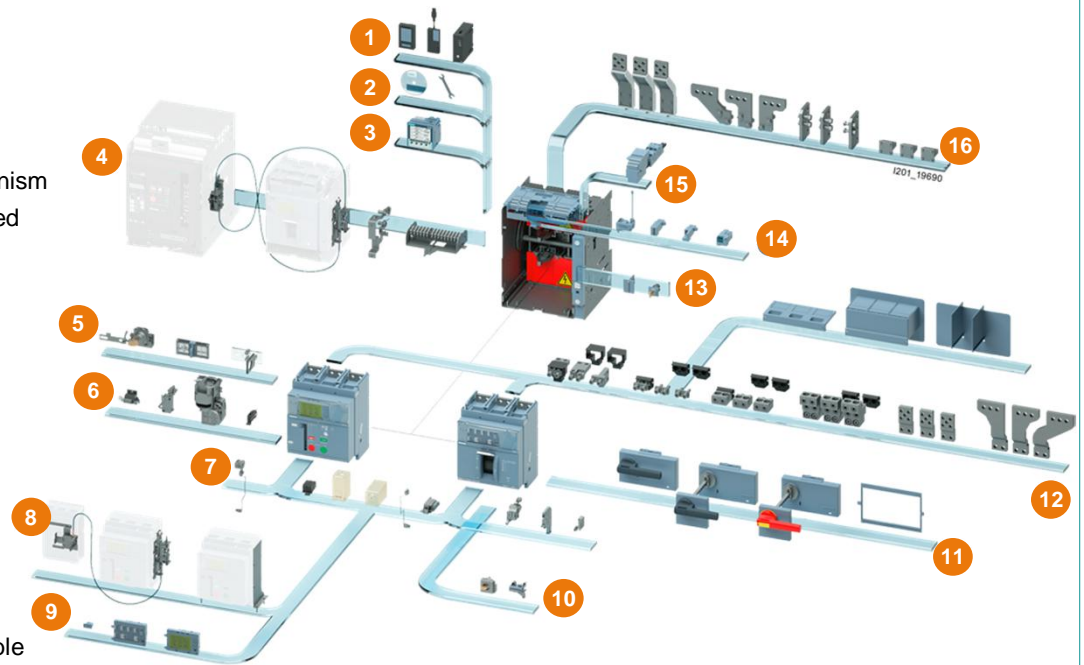


The 3VA27 molded case circuit breaker

Accessories

3VA27 total overview Exploded view

- 1 Test and inspection devices
- 2 powerconfig software
- 3 Display DSP800
- 4 Interlocking system (guide frame)
- 5 Locking/interlocking mechanism - 3VA27 with stored energy mechanism
- 6 Motorized operating mechanism and accessories - 3VA27 with stored energy mechanism
- 7 Auxiliary and alarm switches / auxiliary release
- 8 Interlocking system for fixed-mounted circuit breakers
- 9 Electronic trip units (ETU)
- 10 Sliding bars
- 11 Manual operators
- 12 Connection equipment for fixed-mounted circuit breaker
- 13 Locking system with guide frame
- 14 Communication modules (usable for fixed mounting and withdrawable circuit breakers)
- 15 Position signaling switch for guide frame
- 16 Connection technology with guide frame



3VA27 Internal Accessories

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Undervoltage release
(UVR)



Motorized operating
mechanism



Operating cycles counter



Closing coil (CC)
Shunt trip (ST)

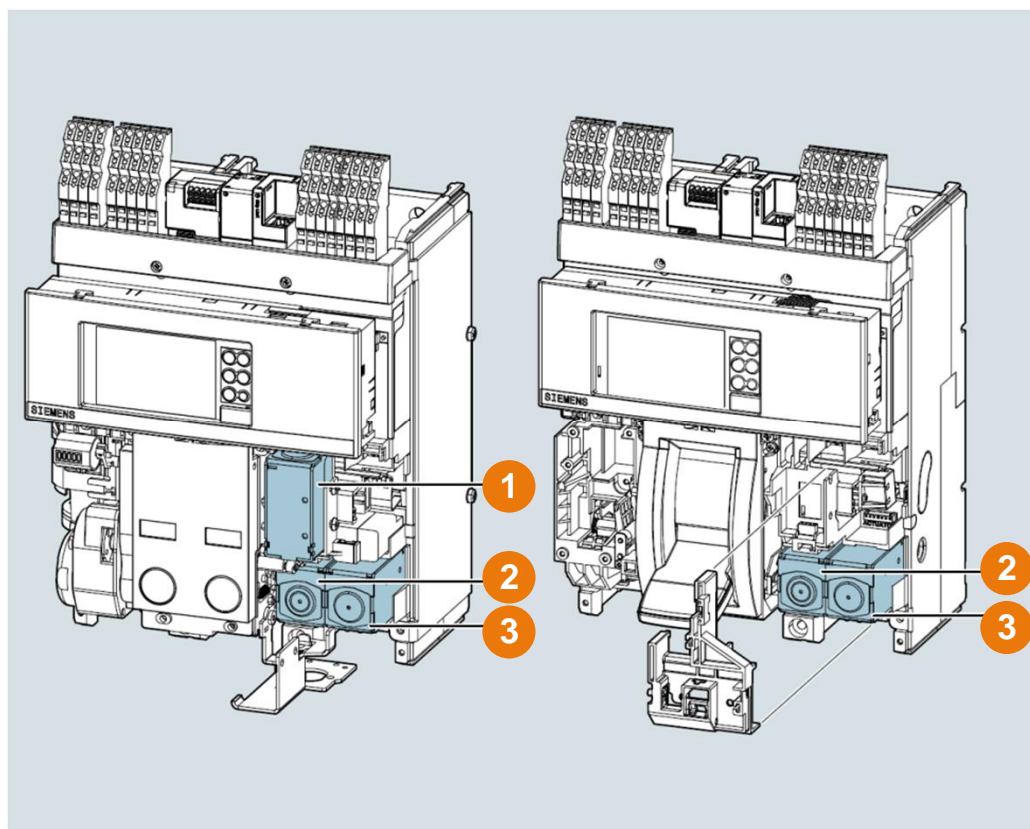


- Auxiliary switch (AUX)
- External auxiliary switch (AUX)
- Tripped signaling switch (TAS)
- Tripped signaling switch (S24)
- Tripped signaling switch (UVR/ST)
- Ready-to-close signaling switches (RTC)
- Leading changeover switch (S26)
- Stored energy mechanism status switch (S21)
- Position signaling switch (PSS)



3VA27 Internal Accessories Mounting Example

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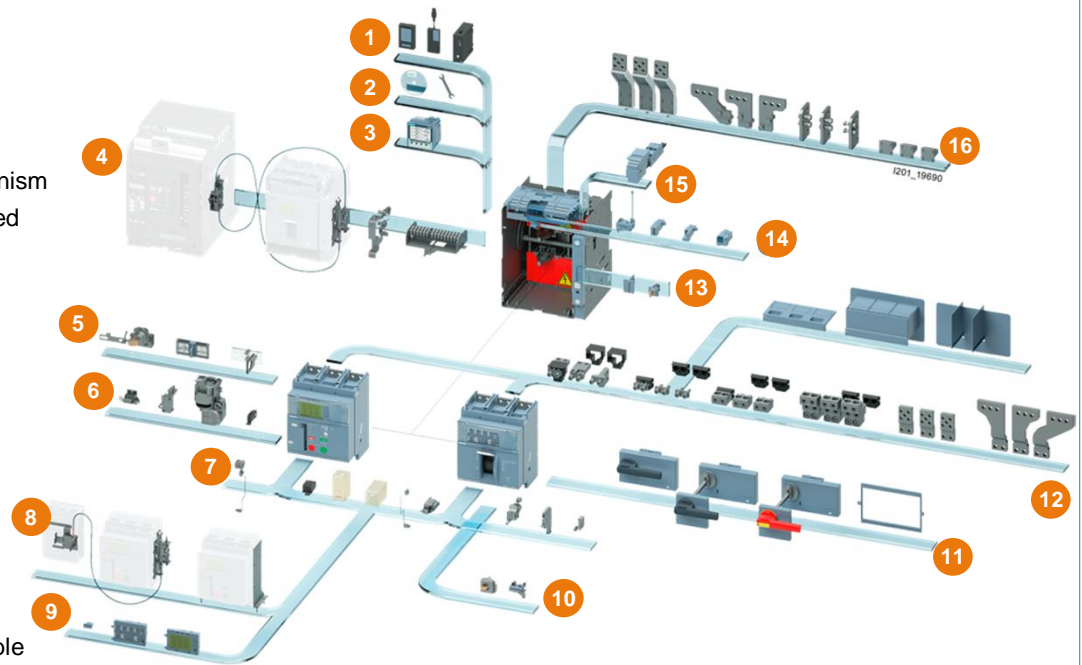


- 1 Closing coil (CC) (for stored energy mechanism version only)
- 2 Undervoltage release (UVR) / Shunt trip (ST2)
- 3 Shunt trip (ST)

3VA27 total overview Exploded view

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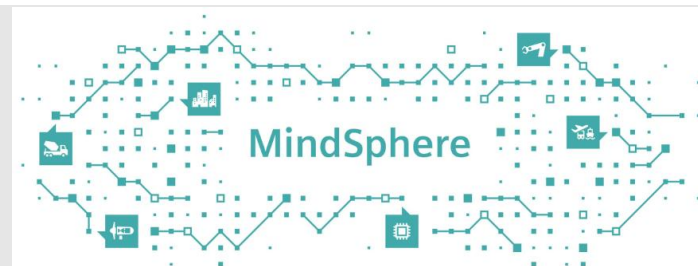
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3VA2 molded case circuit breaker Communication

Integration of 3VA molded case circuit breaker into three system concepts: TIA, TIP, TBS

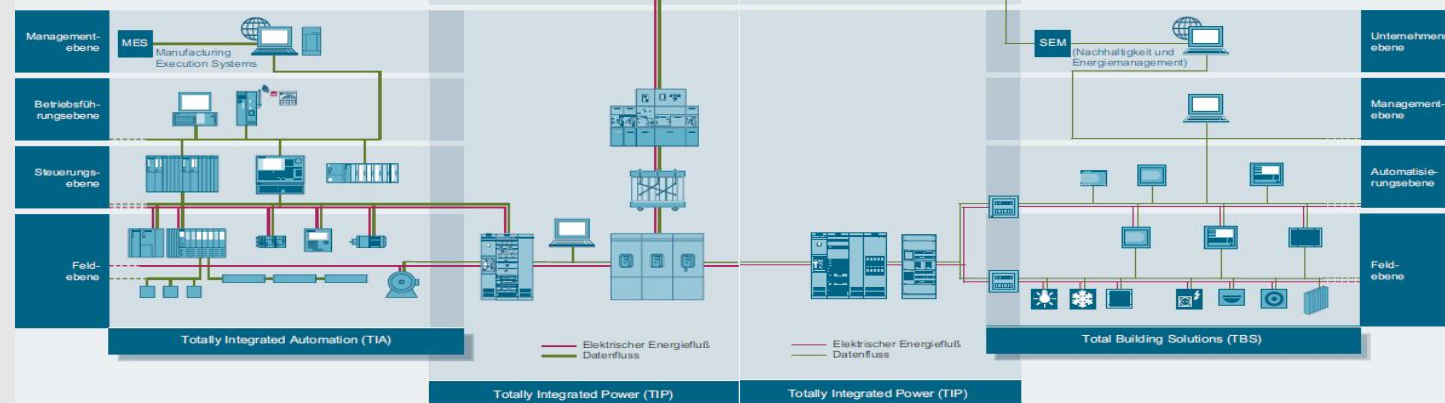
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Totally Integrated Power (TIP): Low-voltage power distribution as the fundament for TIA and TBS

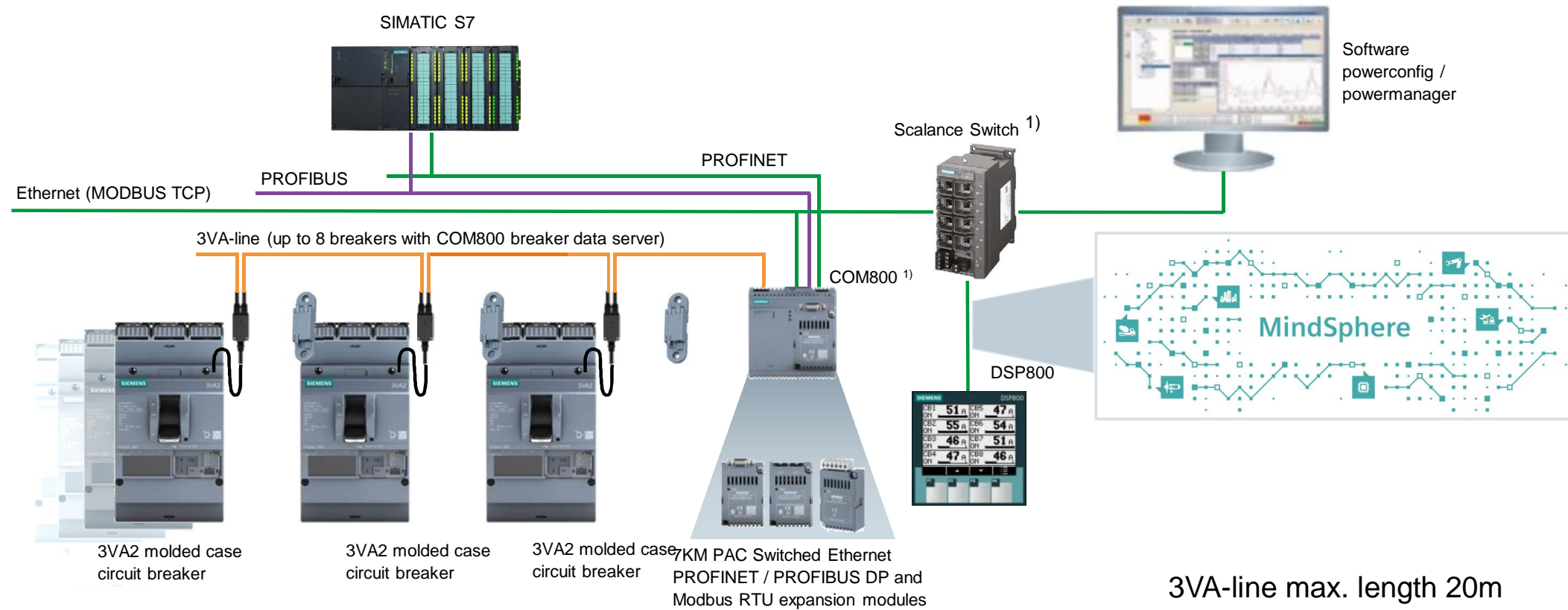
Totally Integrated Automation (TIA) for production plants

Totally Building Solution (TBS) for commercial buildings and infrastructure



High transparency regarding usage data and system states

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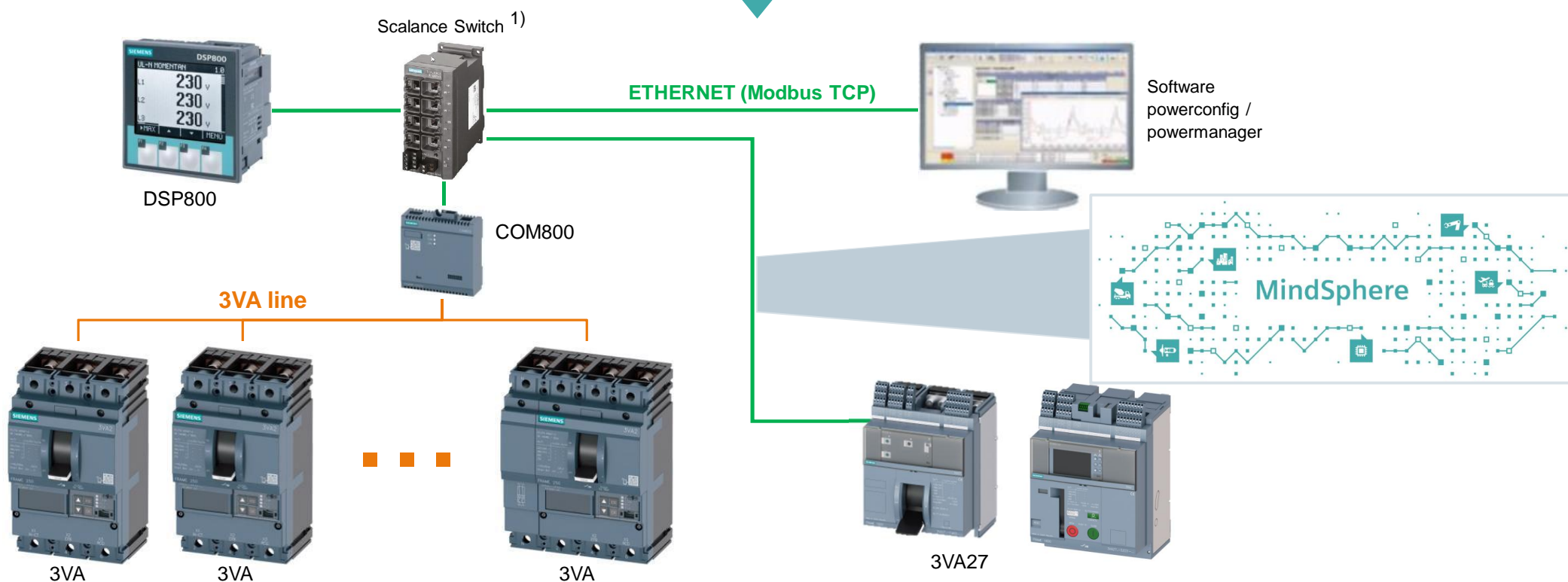
1) COM100 breaker data server ' one breaker

EM LP

Communication Integration in DSP800 external display

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Maximum of 8 circuit breakers, including a maximum of 3 x 3VA27 circuit breakers with ETU650/ETU660 and COM43



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3VM molded case circuit breakers



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3VM molded case circuit breakers Overview/Technical Data

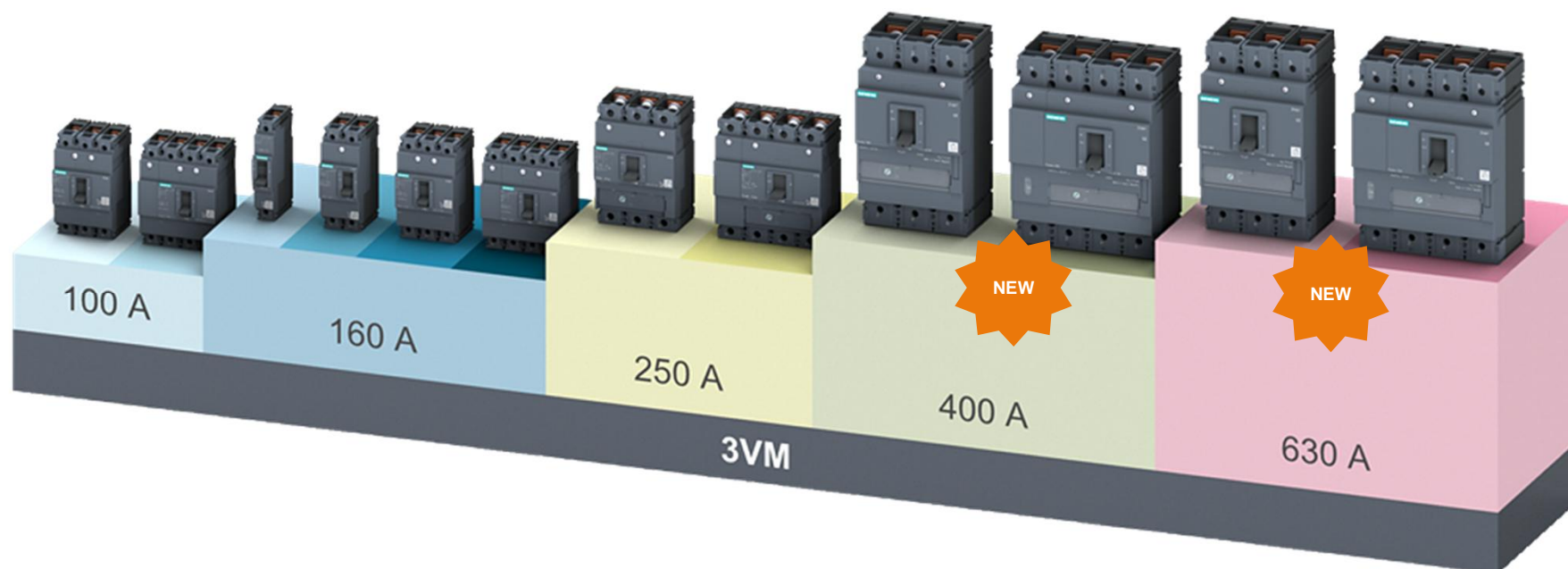
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3VM molded case circuit breaker Portfolio overview

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3VM molded case circuit breaker Highlights

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Line / starter protection / switch disconnecter

- Compact design
- Rated current from 16 A up to 630 A
- Breaking capacity from 16 kA to 55 kA @415V AC
- Thermal-magnetic trip units
- 1- to 4-pole breakers available
(1- and 2-pole in frame size 160 A)
- "Real" switch disconnecter up to 630 A¹⁾ according to IEC 60947-3 in MCCB design
- Complete and uniform accessory platform across all 3VM frames



3VM molded case circuit breakers

Sizes and rated currents

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3VM Frame Sizes and Rated Currents						
Frame		3VM10 100 A	3VM11 160 A	3VM12 250 A	3VM13 400A	3VM14 630A
Rated current I_n / A	8					
	12.5					
	16	3p, 4p	1p, 2p, 3p, 4p			
	20	3p, 4p	1p, 2p, 3p, 4p			
	25	3p, 4p	1p, 2p, 3p, 4p			
	32	3p, 4p	1p, 2p, 3p, 4p			
	40	3p, 4p	1p, 2p, 3p, 4p			
	50	3p, 4p	1p, 2p, 3p, 4p			
	63	3p, 4p	1p, 2p, 3p, 4p			
	80	3p, 4p	1p, 2p, 3p, 4p			
	100	3p, 4p	1p, 2p, 3p, 4p			
	125		1p, 2p, 3p, 4p			
	160		1p, 2p, 3p, 4p			
	200			3p, 4p		
	250			3p, 4p		
	320				3p, 4p	
	400				3p, 4p	
	500					3p, 4p
	630					3p, 4p



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3VM molded case circuit breakers Trip Units

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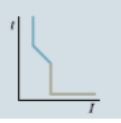
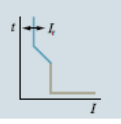


siemens.com/lowvoltage



3VM molded case circuit breaker

Trip unit overview

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SD100		Switch Disconnecter
TM210		Line Protection: FTFM (Fixed Thermal, Fixed Magnetic)
TM220		Line Protection: ATFM (Adjustable Thermal, Fixed Magnetic)
TM110M		Motorstarterprotection: FM (Fixed Magnetic)
TM120M		Motorstarterprotection: AM (Adjustable Magnetic)

Line / Generator protection / Switch disconnectors

- Line protection TM210 and TM220
- Switch disconnector SD100
- Starter protection TM110; TM120M
- Neutral protection available for 4-pole breakers: 0% and 100%
- Usable for AC and DC networks
- No derating up to 50° C

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3VM molded case circuit breakers Accessories

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[siemens.com/lowvoltage](https://www.siemens.com/lowvoltage)

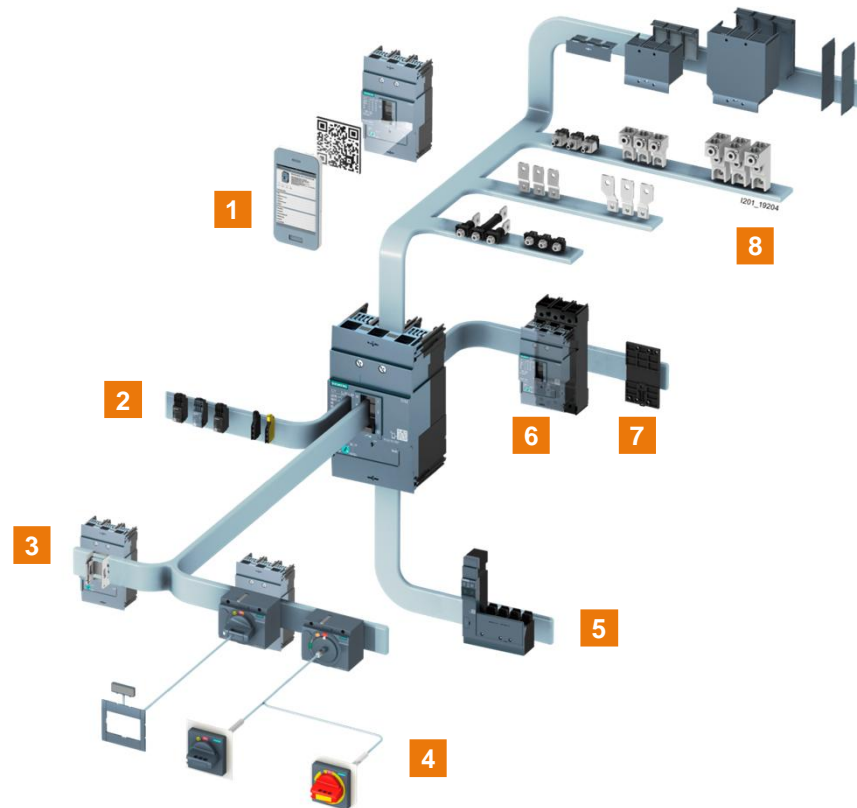


3VM molded case circuit breakers

All important accessory components

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- 1 Knowledge Manager
- 2 Internal accessories
- 3 Locking
- 4 Manual operators
- 5 Residual current device
- 6 Plug-in technology
- 7 DIN rail adapter
- 8 Connection technology



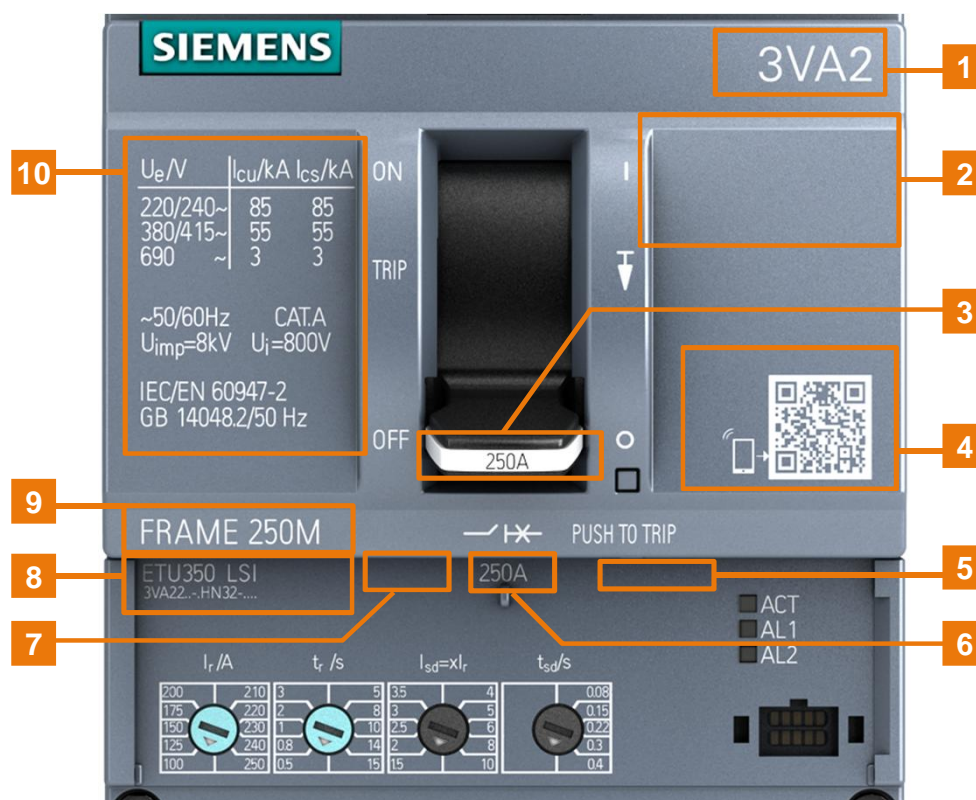
3VA / 3VM Molded Case Circuit Breakers General

3VA / 3VM molded case circuit breaker

Labeling front side

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- 1** Breaker type
- 2** Approbations
- 3** Rated current (3VA only)
- 4** Knowledge Manager
- 5** Serial number
- 6** Rated current
- 7** Product version
- 8** Trip unit type and order no.
- 9** Size and breaking capacity class
- 10** Name plate



Comprehensive 3VA2 CAX data support

Digital data support



12 different CAX data types – overview

Wiring diagrams		2D dimensional drawings		Operating instructions	
Circuit diagrams		3D Models		Product photos	
Commercial and technical product data		Manuals		Product data sheets	
Characteristic curves		EPLAN Macros		Certificates	



Configurator

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Product Information

Configurators

Select a Configurator

3VA Molded Case Circuit Breakers 16 A up to 1000 A, IEC


3VA Molded Case Circuit Breakers 800 A up to 1600 A, IEC

3VA Molded Case Circuit Breakers 15 A up to 600 A, UL / IEC

SETRON Molded Case Circuit Breakers and Air Circuit Breakers

TIP Portal - Tender Specification

Conversion tool



This configurator supports you in selecting the optimum molded case circuit breaker for your application.

Start

SIEMENS

The configuration is not complete, please set all orange values.

Basic configuration


Trip units

Product range


Please choose:

3VA1 - Standard applications

3VA2 - Selective applications



1, 2, 3, 4-pole
In 16 A - 630 A
Icu 16 kA - 70 kA @ 415 Vac
Icu 8 kA - 85 kA @ 500 Vdc
Thermal-magnetic trip unit
Compact size



3-, 4-pole
In 25 A - 1000 A
Icu 55 kA - 150 kA @ 415 Vac
Electronic trip unit
Communication-capable
Integrated measurement function
Voltage Ue to 690 V

Application

Please choose:

Line protection

Switch disconnecter, MCCB design

Motor protection

Starter protection

Frame size

Please choose:

100 A

160 A

250 A

400 A

630 A

1,000 A

Electrical parameters

Number of poles

Rated current In/A

Rated operational voltage Ue/Vac

Breaking capacity Icu/Ics/kA

Breaking capacity class

frame size 1,600 A

Configurator

3VA frame size 1,600 A

3VA / 3M Moulded Case Circuit Breaker: [Configurator](#)

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EM LP

Knowledge Manager



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Knowledge Manager

- Scanning of the QR code provides MLFB-based technical information of the 3VA molded case circuit breaker
- Direct connection to the Service & Support Portal
- Siemens Industry Support App
- QR-Reader i-nigma

Patent in process