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3WT Air Circuit Breakers up to 4000 A

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Catalog LV 35 · 2019

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Introduction

3WT Air Circuit Breakers up to 4000 A (AC)

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Appendix



As a source of energy for industry, buildings and infrastructures, the reliability of the power supply is becoming ever more important. Only a flexible power supply tailored to every individual scenario can meet all individual challenges, while at the same time increasing availability and profitability. Totally Integrated Power (TIP) from Siemens is a holistic, customizable power supply solution comprising software and hardware products, systems and solutions across all voltage levels. The systems and products of the TIP portfolio can be integrated seamlessly into industrial and building automation systems. TIP enables companies to focus on their core business and simultaneously ensure a reliable, secure and efficient supply of power. Because "power matters".

Electrical power distribution – integrated, safe and efficient

The increasing level of automation in buildings and industry introduces novel requirements for electrical power distribution and makes the underlying technologies ever more complex. Our components and systems are perfect for integration into networked environments, and they significantly contribute toward increasing the efficiency of your business processes. Communication-capable, flexible and fail-safe devices combine with digital engineering to provide you with optimized solutions – for any application.

Comprehensive portfolio

Our products lay the foundations for safe, reliable and efficient electrical infrastructure at medium and low-voltage levels in buildings, infrastructure and industrial applications. Our portfolio includes, among other devices, power distribution boards and distribution boards, communicationcapable protection, switching, measuring and monitoring devices, as well as switches and socket outlets. Our tested and certified components, systems and software packages allow for ever-suitable solutions in both centralized and distributed power systems the world over. They reliably protect against accidents, faults and fires caused by electrical installations and allow consumers to utilize electrical power in a sustainable, responsible manner.

Simplified engineering

We support you throughout the entire value chain - from the planning stage, during installation and right through to operation, as well as when it comes to measures for modernizing and expanding your electrical power distribution systems. You benefit from a broad portfolio of personalized and online-based maintenance and support services. Professional software and data ensure simple planning in compliance with standards as well as error-free configuration and documentation. Clear ordering channels, transparent product availability data and high delivery reliability coupled with swift global spare part provision, comprehensive online services, expert consulting and fast, efficient and reliable processes ensure that you are optimally covered throughout the entire product life cycle.

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Notes

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3WT air bircuit breakers

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Siemens Industry Online Support: www.siemens.com/lowvoltage/ product-support

→ Entry type: Application example Certificate Characteristic Download FAQ Manual Product note Software archive Technical data

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Introduction

3WT air circuit breakers

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Introduction

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Benefits

Flexibility

- Electronic trip units (ETU) with outstanding features
- Only two frame sizes cover a broad range of applications from 400 A to 4000 A, with a breaking capacity up to 66 kA up to 690 V, 3- or 4-pole version, fixed-mounted, withdrawable version
- Modbus RTU communication
- Metering with internal voltage tap
- All components can be combined in a modular way

Ease of use

- User friendliness in planning, configuration, installation and operation
- Wide range of accessories for both frame sizes can be easily retrofitted
- Displays for all electronic trip units (ETU)

Safety and reliability

- International and standardized processes ensure highest product quality
- Conforms to international standards and approvals



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Introduction

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2/2	General data
2/17	3- and 4-pole, withdrawable version inclusive standard accessories
2/18	3- and 4-pole, fixed-mounted version inclusive standard accessories
2/19	3- and 4-pole, withdrawable version
2/22	3- and 4-pole, fixed-mounted version
2/23	Non-automatic air circuit-breakers, 3- and 4-pole, withdrawable version
2/24	Non-automatic air circuit-breakers, 3- and 4-pole, fixed-mounted version
2/25	Options NEW
2/32	Accessories/spare parts NEW
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For further technical product information:

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→ Entry type: Application example Certificate Characteristic Download FAQ Manual Product note Software archive Technical data

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General data

Overview

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3WT circuit breaker, withdrawable version, size II, 3-pole

- Withdrawable circuit breaker
 Indication and reset button after
- tripping for tripped signaling switch and manual reset reclosing lockout Stored-energy indicator Switching position indicator Ready-to-close indicator

- 3 4 5
- - 67002123
- ON button, mechanical OFF button, mechanical Indication of circuit breaker position Guide frame

 - Guide rails Auxiliary circuit plug-in system Crank hole Hand lever



3WT circuit breaker, fixed-mounted version, size II, 3-pole

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ACTIVE ALARM COMM.

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Motorized operating mechanism





General data

Benefits

Safety and reliability

- High degree of protection with door sealing frame in the case
 of exclusively local operation of the circuit breaker
- Infeed supply from above or below, as required
- Locking of the withdrawable circuit breaker against moving, as standard
- Locking of the guide frame with the circuit breaker removed, as standard
- Signaling switch for overload and short-circuit tripping with mechanical reclosing lockout
- High degree of protection with cover IP55
- Mechanical reclosing lockout after overload or short-circuit tripping as standard
- The circuit breaker is always equipped with the required number of auxiliary supply connectors

Easy to operate

- Unambiguous ON-OFF indicator with auxiliary switch for signal
- Ready-to-close indicator with signaling switch as safety standard.

Modular

Many components, such as auxiliary releases, motorized operating mechanisms, electronic trip units and current transformers can be replaced or retrofitted to adapt the circuit breaker to changing requirements.

Minimal power loss and therefore low energy consumption

The low power consumption of the electrical components also saves money when it comes to purchasing the control-power transformers. Where space is at a premium or ventilation is limited.

Application

IEC 60947-2, GB 14048.2, CCC approval, climate-proof to IEC 60068-2-30, IEC 60068-2-6, Fc

Operating conditions

The 3WT circuit breakers are climate-proof in accordance with IEC 60068-2-30, IEC 60068-2-6, Fc.

They are intended for use in enclosed areas where no severe operating conditions (e.g. dust, corrosive vapors, damaging gases) are present.

When installed in dusty or damp areas, suitable enclosures must be provided. If damaging gases (e.g. hydrogen sulfide) are present in the surrounding air, sufficient incoming fresh air must be supplied.

The permissible ambient temperatures and the associated rated currents are listed in the technical specifications.

Versions

Design

Breaking capacity: 55/66kA at 500V/690V Rated current: from 400 A to 4000 A Rated operating voltage: up to AC 690V

The 3WT circuit breakers are supplied complete with an operating mechanism, electronic trip unit and auxiliary switches and are fitted with auxiliary releases.

The non-automatic circuit breakers are supplied without electronic trip unit

Standard version

- Electronic trip unit with LSI protection, LCD display with backlight, LEDs for the cause of tripping, LED status indicator, query and test button
- Auxiliary supply connector: The circuit breaker is equipped with the required number of connectors
- Mechanical ON and OFF pushbutton
- Door sealing frame IP41
- Tripped signaling switch (1 NO)
- · Ready-to-close indicator with signaling switch
- Stored-energy indicator
- Auxiliary switches (2NO + 2NC)
- Rear horizontal main circuit connections for fixed mounted and withdrawable versions
- For 4-pole circuit breakers, the fourth pole (N) is installed on the left and is 100 % loadable
- · Indication and reset button after tripping for
 - tripped signaling switch and
 - mechanical reclosing lockout
- User manual in English/Chinese/Spanish/Portuguese/Turkish
- Additional features of the withdrawable version:
- Main contacts:
- Laminated receptacles in the guide frame, penetration blades on the withdrawable circuit breaker
- Position indicator in the control panel of the withdrawable circuit breaker
- Guide frame with guide rails for easy moving of the withdrawable circuit breaker
- The withdrawable circuit breaker can be locked to prevent it being pushed out of position

Standard version for non-automatic circuit breaker

- Same features as the circuit breaker, see "Standard version" but
- No electronic trip unit

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General data

Function

Operating mechanisms (see illustration "Motorized operating mechanism")

The circuit breakers are available with various optional operating mechanisms:

- Manual operating mechanism with memory, with mechanical closing
- Manual operating mechanism with mechanical and electrical closing
- Motorized operating mechanism that can also be operated manually, with mechanical and electrical closing.

The operating mechanisms with electrical closing can be used for synchronization tasks.

EMERGENCY-STOP facility

The 3WT circuit breakers can be used as an EMERGENCY-STOP facility to IEC 60204-1 if the circuit breaker is equipped with an undervoltage release and is used in conjunction with an EMERGENCY-STOP control device.

Auxiliary and signaling switches

- Ready-to-close
- If all the conditions are fulfilled, so that the circuit breaker is ready to close, this is indicated visually on the operator panel.
- The circuit breakers are supplied with 2 NO and 2 NC contacts or with 2 NO and 2 NC and 2 CO contacts or 4 NO and 4 NC contacts or 5 NO and 3 NC or 6 NO and 2 NC contacts according to order.
- "Tripped" signaling switch and mechanical reclosing lockout As standard, the circuit breaker is equipped with an S11 signaling switch and a mechanical reclosing lockout for the common overload and short-circuit signal and, depending on the setting and version of the electronic trip unit, the ground-fault signal.

The tripped signal and the standard mechanical mechanism to prevent closing remain active until the reset button is operated on the circuit breaker. When the circuit breaker has tripped, this is indicated by the protruding reset button. The electrical signal from the "tripped" switch S11 has to be reset by operating the Reset button.

Auxiliary supply connections

The type of connection for the auxiliary switches depends on the type of installation:

Withdrawable version:

The internal auxiliary switches are connected to the male connector on the circuit breaker side. When fully inserted, the connector makes a connection with the sliding module in the guide frame.

Fixed mounting:

In this case the auxiliary supply connectors are engaged directly onto the circuit breaker.

Fixed-mounted and withdrawable version

Fixed-mounted and withdrawable circuit breakers

 Protective measures against arcing gases For 3WT circuit breakers with voltages up to AC 690 V, screening from vertical busbars is not necessary. Electrical add-on devices on the side of the circuit breaker must be separately covered. Also see notes under "Project planning aids", "Dimensional drawings".

Operator panel

The operator panel is designed to protrude from a cutout in the door providing access to all operator controls and displays with the door closed.

The operator panels for all circuit breakers (fixedmounted/withdrawable versions, 3-pole, 4-pole) are identical. The operator panel ensures degree of protection IP41.

• Door sealing frame The door sealing frame seals the cabinet door with the operator panel. With the cabinet door closed, the IP degree of protection is achieved for the circuit breaker.

Withdrawable circuit breaker

The withdrawable version comprises a withdrawable circuit breaker, a guide frame and a hand crank for moving the withdrawable circuit breaker. The guide frames are fitted with guide rails as standard for easy handling of the withdrawable circuit breaker.

· Auxiliary supply connections

The auxiliary supply connections make contact automatically when the circuit breaker slides into the guide frame (test position, connected position).

 Circuit breaker positions in the guide frame The withdrawable version has three switch positions in the switchgear cabinet behind the cabinet door:

- Connected position
- (main circuit and auxiliary circuit ready)
- Test position
- (main circuit disconnected, auxiliary circuit ready)
- Disconnected position

(main circuit and auxiliary circuit disconnected)

In the disconnected position, the withdrawable circuit breaker complies with the "protective separation condition" with a visible isolating distance in the main circuit and auxiliary circuit. The circuit breaker must always be switched off before it is moved. The "OFF" button must be held down when the slide in the crank hole is opened.

General data

Guide frames

Closing of the crank hole is only possible in the circuit breaker positions (connected, test or disconnected position). The circuit breaker position is shown on a display on the circuit breaker.

The circuit breaker is moved with the help of a hand crank. The connected position as well as the disconnected position is achieved by moving the circuit breaker to the end stop.

• Shutters

Inadvertent touching of live main contacts or busbars is pre-vented by covering with a shutter. The shutter is constructed in two parts and allows the upper or lower connection areas to be opened separately for the purpose of checking that they are not live. The divided shutter can be interlocked in the open or closed position and two padlocks can be fitted.

Main circuit connections

All circuit breakers are equipped with horizontal main circuit connections on the rear for up to 3200 A as standard (horizontal connection to busbars). Exception: Circuit breakers of size II with max. rated current 4000 Å. They are equipped with vertical main connections (for upright busbars).

The following options are available, with combinations of top and bottom connections possible:

- Accessible from the front, double hole (holes according to DIN 43673) (for vertically installed busbars)
- At the rear, vertical (for vertically installed busbars)



connection

Fixed-mounted circuit breakers





connection

Withdrawable circuit breaker, withdrawable guide frame



D Vertical connection

Main circuit connections



Guide frame



Vertical busbars, up to 3800 A

General data

Opening, closing and locking devices

- ON and OFF buttons
- Mechanical ON button

In the standard version, the mechanical ON button is a pushbutton.

- Mechanical OFF button

In the standard version, the mechanical OFF button is a pushbutton. As an alternative to a pushbutton, a safety lock (CES) can also be supplied. If the key is removed in the "0" position, it is no longer possi-

ble to close the circuit breaker mechanically.

 Locking device against moving the withdrawable circuit breaker

Access to the crank hole and application of the crank is prevented by means of one or more padlocks. This also prevents movement of the withdrawable circuit breaker in the guide frame.

Auxiliary releases

Up to two auxiliary releases can be installed at the same time. The following are available:

- 1 shunt release or
- 1 undervoltage release or
- 2 shunt releases or
- 1 shunt release +
- 1 undervoltage releases.

Undervoltage releases

The undervoltage release causes the circuit breaker to be opened if the operational voltage falls below a certain value or is not applied. The circuit breaker cannot be closed manually or by means of an electrical ON command if the undervoltage release is not connected to the operational voltage. The undervoltage release has no delay as standard. A delay can be set by the customer in the range between $t_d < 80$ ms and $t_d < 200$ ms.

In addition, an undervoltage release with a delay in the range from 0.2 to 3.2 s is available.

Closing solenoid

The closing solenoid is used to close the circuit breaker electrically by means of a local electrical ON command or by a remote unit.

Motorized operating mechanisms

The operating mechanism is used to load the storage spring automatically.

The operating mechanism is activated if the storage spring has been unloaded and the control voltage is available.

It is switched off automatically after loading. This does not affect manual operation of the storage spring.

Indicators, signals and control elements

Operating cycles counter

The motorized operating mechanism can be supplied with a 5-digit operating cycles counter. The display is incremented by "1" as soon as the storage spring is fully loaded.

Electronic trip units - ETU



Electronic trip units - ETU35WT, ETU37WT, ETU45WT, ETU47WT

The electronic trip unit is controlled by a microprocessor and operates independently of an auxiliary voltage. It enables systems to be adapted to the different protection required of distribution systems, motors, transformers and generators.

In all electronic trip units, the following high-grade features are always included as standard:

- Display with back light
- LSI protection as minimum configuration
- Integrated function test

The test button can be used to test the electronic trip unit using an integrated test function with or without tripping of the circuit breaker (the solid-state trip unit, trip solenoid and breaker mechanism are tested).

Active LED

Correct operation of the electronic trip unit is indicated by a flashing of a green LED. When the operating current exceeds the response threshold of the overload protection, it is indicated by rapid flashing of the green LED.

• Cause of tripping

The cause of tripping can be queried locally and displayed (by pressing the "Query" button).

T. U. Error

A microprocessor fault or overtemperature inside of the electronic trip unit is signaled by a warning indicator LED.

Communication/measuring functions

The use of modern communication-capable circuit breakers opens up completely new possibilities in terms of start-up, parameterization, diagnostics, maintenance and operation. This allows many different ways of reducing costs and improving productivity in industrial plants, buildings and infrastructure projects to be achieved:

- Fast and reliable parameterization
- Timely information and response can prevent plant stoppages
- Effective diagnostics management
- Measured values are the basis for efficient load management, for drawing up power demand profiles and for allocating energy to cost centers
- Preventive maintenance reduces the risk of expensive plant downtimes
- Measurement function with a very wide range of measured values, such as current, voltage, energy, power etc.
- · Can be used in 690 V networks

General data

Manual function tester for Electronic trip unit ETU



Manual function tester

The manual function tester is used to verify the proper operation of the electronic trip unit, the energy transformers and current transformers as well as the tripping solenoid F5 and the data display.

Ground-fault protection

Description

Ground-fault releases "G" sense fault currents that flow to ground and that can cause fire in the plant. Multiple circuit breakers connected in series can have their delay times adjusted so as to provide time-graded discrimination.

The reason for tripping is indicated by means of an LED when the query button is activated.

Measurement method

Vectorial summation current formation (measurement method 1)

The three phase currents and the N-conductor current are measured directly.

The electronic trip unit determines the ground-fault current by means of vectorial summation current formation for the three phase currents and the N-conductor current.

Direct measurement of the ground-fault current (measurement method 2, only for ETU47WT)

A standard transformer with the following data is used for measurement of the ground-fault current:

1200 A/1 A, Class 1 (the internal load of 3WT is 0.11 Ω). The transformer can be installed directly in the grounded neutral point of a transformer.



3-pole circuit breakers, current transformers in the neutral conductor



3-pole circuit breakers, current transformers in the grounded neutral point of the transformer



4-pole circuit breakers, current transformers in the grounded neutral point of the transformer

Setting

How the ground fault protection is set depends on the measurements method used (see above):

Measurement method 1: in position ΣI .

Measurement method 2: in position [g



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General data

ETU35WT electronic trip unit



ETU37WT electronic trip unit



Application:

Classical building, motor and system protection with time-selective coordination for up to 4000 A

Features:

- Adjustable overload protection with I²t characteristic curve Delay time
- $t_{\rm R}$ = 10 seconds at 6 × $I_{\rm R}$
- Short-time delayed short-circuit protection adjustable in the range 1.25 ... $12 \times I_n$ and
- Instantaneous short-circuit protection preset to $20 \times I_{\rm fl}$, max. 50 kA
- Overload display
- Indicates the reason for tripping by means of an LED
- Test facility for the release
- Protection functions are set by means of the rotary coding switch
- Display with back light

For technical details see the table "Functional Overview of the Electronic Trip Unit System" under "Technical Specifications".

Application:

Classical building, motor and system protection with time-selective coordination for up to 4000 A

Features:

The same as ETU35WT but also

- Reversible neutral conductor protection
- Permanently integrated ground-fault protection. Calculation of the ground-fault current through vectorial summation current formation

For technical details see the table "Functional Overview of the Electronic Trip Unit System" under "Technical Specifications".

ETU45WT electronic trip unit (Release 2)



ETU47WT electronic trip unit (Release 2)



Application:

Economical all-round system for intelligent buildings and all types of industrial applications

Features:

The same as ETU35WT but also

- · Adjustable time-lag class for overload protection
- Selectable characteristic for overload and short-delayed short-circuit range (current discrimination) for more accurate discrimination adaptation to upstream fuses and protective devices
- Thermal image as restart protection for tripped motor outgoing feeders
- Reversible and adjustable (incl. turn off) neutral conductor protection
- The protection functions can be set by means of a rotary coding switch or slide switch
- Communication capability with COM16WT
- Optional metering

For technical details see the table "Functional Overview of the Electronic Trip Unit System" under "Technical Specifications".

Application:

Economical all-round system for intelligent buildings and all types of industrial applications

Features:

The same as ETU45WT but also

 Ground-fault protection with tripping functions which can be adjusted separately

For technical details see the table "Functional Overview of the Electronic Trip Unit System" under "Technical Specifications".

General data





Protection functions	s		ETU35WT	ETU37WT	ETU45WT/ETU47WT
Parameterization by	1		D	D & S	D & S
Functional over	vie	w of the electronic trip unit system			
		Overload protection	1	1	1
		Function can be switched on/off			
	ı.	Setting range $I_{R} = I_{n} \times \dots$	0.4-0.45-0.5-0.55-0.6- 0.65-0.7-0.8-0.9-1	0.4-0.45-0.5-0.55-0.6- 0.65-0.7-0.8-0.9-1	0.4-0.45-0.5-0.55-0.6- 0.65-0.7-0.8-0.9-1
	L	Setting range for time-lag class $t_{\rm R}$ at $I^2 t$	10 s fixed	10 s fixed	2-3.5-5.5-8-10-14-17-21-25- 30 s
		Thermal image can be switched on/off			✓
$\sum_{t_{P}}$		Phase failure sensivity	at $t_{sd} = 20 \text{ ms} (M)$	at $t_{sd} = 20 \text{ ms} (M)$	at $t_{sd} = 20 \text{ ms} (M)$
		Neutral conductor protection		1	✓
\mathbf{y}	N	Function can be switched on/off		✓	✓
· · · · · · · · · · · · · · · · · · ·		N conductor setting range $I_{\rm N} = I_{\rm n} \times$		1	0.5-1
		Short-time delayed short-circuit protection	1	1	✓
		Function can be switched on/off			✓
	\sim	Setting range $I_{sd} = I_n \times$	1.25-1.5-2-2.5-3-4-6- 8-10-12	1.25-1.5-2-2.5-3-4-6-8-10-12	1.25-1.5-2-2.5-3-4-6-8-10-12
I _{sd}	S	Setting range for delay time t_{sd}	0-M-100-200-300- 400 ms	0-M-100-200-300-400 ms	M-100-200-300-400 ms
t _{sd}		Switchable short-time delayed short-circuit protec- tion (I^2t -dependent function)			✓
		Setting range for delay time t_{sd} at I^2 t			100-200-300-400 ms
*		Instantaneous short-circuit protection	1	✓	✓
Ii	1	Function can be switched on/off			✓
NSE0_00888b	I	Setting range $I_i = I_n \times$	fixed for $I_i \ge 20 \times I_n$, max. 50 kA	fixed for $I_i \ge 20 \times I_n$, max. 50 kA	1.5-2.2-3-4-6-8-10-12-0.8 × I _{cs}
		Ground-fault protection		1	✓ (only FTU47WT)
		Tripping function can be switched on/off		1	✓ (only ETU47WT)
		Detection of the ground-fault current through sum- mation current formation with internal or external neutral conductor transformer		3	✓ (only ETU47WT)
Ig		Detection of ground-fault current through external transformer			3 (only ETU47WT)
	G	Setting range of the operating current $I_{\rm g}$ for release		OFF-100-300-600-900-1200	OFF-100-300-600-900-1200 (only ETU47WT)
		Setting range of the delay time $t_{\rm g}$		100-200-300-400-500 ms	100-200-300-400-500 ms (only ETU47WT)
N3E0_008894		Switchable ground-fault protection characteristic curve (I^2t -dependent function)			✓ (only ETU47WT)
		Setting range for delay time t_g at I^2 t			100-200-300-400-500 ms (only ETU47WT)
LCD					
		LCD, with backlight	✓	✓	✓
Watchdog		Watabdag	1	1	1
Communication		Watchuog	v	v	v
Communication		Madhua BTU with COM16W/T			1
Motoring					v
wetering		Matering with internal voltage ten			1
LED diamlay		Metering with internal voltage tap			v
LLD uispiay		Electronic trip unit active	1	/	/
			v /	v /	v /
		FTLLfault		1	1
44			v /	· /	v (
\wedge^{\prime}		S roloaso	v /	· · · · · · · · · · · · · · · · · · ·	· /
			v (v (· · · · · · · · · · · · · · · · · · ·
		N rologgo	V	v (V
NSE00890		G release		· · · · · · · · · · · · · · · · · · ·	· /
		C TOTOLOGE		•	•

Delay time figures given in ms.

✓ Available. -- Not available.

M = Motor protection, corresponds to 20 ms. D = Rotary coding switch. D & S = Rotary coding and slide switch.

General data

Module for mutual mechanical interlocking

The module for mutual mechanical interlocking can be used for one or two 3WT circuit breakers and can be adapted easily to the corresponding versions.

The fixed-mounted and withdrawable circuit breaker versions are fully compatible and can therefore be used in a mixed configuration in an installation.

The circuit breakers can be mounted alongside each other or one above the other, whereby the spacing of the circuit breakers is determined solely by the length of the Bowden wire. The Bowden wires are supplied in standard lengths of 2 m (length: 2 m/3 m/4.5 m). Interlock signals are looped through via the Bowden wires. Interlocking is only effective in the connected position in the case of withdrawable circuit breakers. The mechanical endurance of the Bowden wires is 10000 operating cycles.

The interlocking module is mounted on the right-hand side of the fixed-mounted circuit breaker (see illustration) or the guide frame.

Minimum requirements must be fulfilled in the switchgear for the interlocking to function:

- Bowden wires must be installed as far as possible in a straight line with minimum bending.
- The bending radii of the Bowden wire must be greater than 500 mm.
- The sum of all bending angles along the Bowden wire must not exceed 640°.
- In a vertical arrangement of circuit breakers to be interlocked, the interlocking mechanisms must be in line.
- Circuit breakers to be interlocked must be arranged so that Bowden wires can be optimally installed in compliance with the conditions mentioned in the above points.
- The installed Bowden wire must be fixed (with cable ties or the like) before the interlock is adjusted.

- Select the width of switchgear cubicle to allow enough freedom of movement for adjusting the interlock!
- Openings and cut-outs in system elements must be designed so that Bowden wires are not changed in direction or obstructed when they are passed through.



3WT circuit breaker, 3-pole, with interlocking module and Bowden wire



Interlocking module with Bowden wire

Example	Version	Switch status	Description
	1	A B 0 0 1 0 0 1	2 circuit breakers alongside each other: One circuit breaker can only be closed when the other has been switched off. Each circuit breaker has an interlocking module and a Bowden wire.
	2	A B C 0 0 0 1 0 0 0 1 0 0 1 0 0 1 1 1 1 0 0 1 1 1 0 1	3 circuit breakers one above the other: Any two circuit breakers can always be closed, with the third one being interlocked. Each circuit breaker has an interlocking module and a Bowden wire. An additional Bowden wire must be ordered separately for each circuit breaker.
A B C Nseo_01141	3	A B C 0 0 0 1 0 0 0 1 0 0 0 1	3 circuit breakers one above the other: When one circuit breaker is closed the other two circuit breakers cannot be closed. The interlocking mechanism of each circuit breaker consists of an interlocking module and a Bowden wire. An additional Bowden wire must be ordered separately for each circuit breaker.
A1 B A2	4	A1 B A2 0 0 0 1 0 0 0 0 1 1 0 1 0 1 0	3 circuit breakers alongside each other: Two circuit breakers can be closed and opened independently of each other, while the third is only ready to close when the two others are open. If the third circuit breaker is closed, the other two circuit breakers cannot be closed. All three circuit breakers each have an interlocking module and a Bowden wire. A Bowden wire must be ordered separately.



General data

Technical specifications

Size				I.					
Туре				3WT804	3WT806	3WT808	3WT810	3WT812	3WT816
Rated current I _n at 50 °C,	Main conductor		А	400	630	800	1000	1250	1600
at 50/60 Hz	Neutral conductor (only on 4-pole ver	rsion)	A	400	630	800	1000	1250	1600
Rated operating voltage Ue at 50/60 Hz			AC V	up to 690)				
Rated impulse withstand voltage //	Main circuits ¹⁾		kV kV	12					
Utilization category	Auxiliary circuits		κv	B					
Rated short-circuit	Breaking capacity	up to							
making capacity I _{cm} (peak value)	N S	500 V AC 500 V AC 690 V AC	C kA C kA C kA	121 145 105					
Rated service short-circuit breaking capacity <i>I</i> _{cs} (rms value)	Breaking capacity N S Z-Opt. A04	up to 500 V AC 500 V AC 690 V AC	C kA C kA C kA	55 66 50					
Rated ultimate short-circuit breaking capacity <i>I</i> _{cu} (rms value)	Breaking capacity N S Z-Opt. A04	up to 500 V AC 500 V AC 690 V AC	C kA C kA C kA	55 66 50					
Permissible ambient temperatures	Operation Storage		°C ℃	-20 +7 -40 +8	'0 80				
Rated short-time withstand current I_{cw} at 50/60 Hz. At a rated voltage of 690 V, the I_{cw} value of the circuit breaker cannot be greater than the I_{cu} or I_{cs} value at 690 V.	0.5 s 1 s 2 s 3 s 4 s		kA kA kA kA	50 35 ²⁾ /50 25 ²⁾ /30 20 ²⁾ /25 17 ²⁾ /20					
Permissible load for fixed-mounted and withdrawable circuit breakers at cabinet interior temperature ³⁾⁴⁾	up to 50 °C at 60 °C at 70 °C		A A A	400 400 400	630 630 600	800 800 700	1000 950 800	1250 1120 1000	1600 1500 1350
Rated rotor operating voltage Uer			V	2000					
Power loss at I_n with 3-phase symmetr. load (without line- side busbars and metal components ⁴⁾)	Fixed-mounted circ Withdrawable circu including guide fra	cuit breake uit breaker ame	er W - W	25 50	40 80	60 130	90 205	120 255	140 310
Endurance without maintenance	mechanical electrical up to 690 V AC ⁶⁾	Operatin	g cycles	10000 6000					
with maintenance ⁵⁾	mechanical electrical up to 690 V AC ⁶⁾	Operatin	g cycles	s 18000 12000					
Operating frequency	mechanical electrical		1/h 1/h	60 60					
Minimum interval between tripping operation by electronic trip of the circuit breaker (only with automatic me out device)	unit and next making echanical resetting c	g operatio of the lock-	ms n -	80					
Service position				and/ or					
Degree of protection				Circuit br Operator	eaker IP20 panel with), when fit n door sea	ted in cab Iling frame	inet or frar IP41	ne
Main conductor minimum cross-sections	Copper bars, bare	1	Qty. mm ²	1 × 50 × 10	1 × 50 × 10	1 × 60 × 10	2 × 40 × 10	2 × 60 × 10	2 × 60 × 10
	Copper bars, paint	ted black	Qty. mm ²	1 × 40 × 10	1 × 40 × 10	1 × 50 × 10	1 × 60 × 10	2 × 40 × 10	2 × 50 × 10
Auxiliary conductors (Cu) Max. no. of aux. conductors × cross-section	solid and finely stranded with	h end slee	ves	1 × 0.5 2 ×1.0 m	. 2.5 mm ² ; m ²	$1 \times AWG$	14		
Weights									
3-pole circuit breakersFixed-mounted circuit breakerWithdrawable circuit breakerGuide frame		a a a	pprox. kg pprox. kg pprox. kg	34 36 22	34 36 22	34 36 22	34 36 22	34 36 22	36 38 23
4-pole circuit breakersFixed-mounted circuit breakerWithdrawable circuit breakerGuide frame		a a a	pprox. kg pprox. kg pprox. kg	47 49 27	47 49 27	47 49 27	47 49 27	47 49 27	49 51 28
¹⁾ Rated insulation voltage $U_i = 1000 \text{ VAC}$.			4) T ir	hese valu ng/losses i	es apply in increase ir	n the case n the even	of sinusoi t of harmo	dal curren nics and h	t (50/60 Hz). The heat- higher frequencies.
 3) The temperatures apply to the air surround breaker 	ling the upper third	of the circu	uit ⁵⁾ N 6) r	Aaintenano Per contac	ce: replace	ement of th	ne contact	set and a	rc chute.

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^{b)} Per contact set. Disconnect. of the rated current I_n and power factor = 0.8.

General data

Size			II				
Туре			3WT806	3WT808	3WT810	3WT812	3WT816
Rated current <i>I</i> _{n} at 50 °C, at 50/60 Hz ¹⁾	Main conductor Neutral conductor (only on 4-pole version)	A A	630 630	800 800	1000 1000	1250 1250	1600 1600
Rated operating voltage U _e at 50/60 Hz		AC V	up to 690				
Rated impulse	Main circuits ²⁾	kV	12				
withstand voltage U _{imp}	Auxiliary circuits	kV	4				
Utilization category	D		В				
making capacity I _{cm} (peak value)	Breaking capacity up to	L۸					
	S 500 V AC	κA kΔ					
	690 V AC	kA	105				
Rated service short-circuit	Breaking capacity up to						
breaking capacity I _{cs} (rms value)	N 500 V AC	kA					
	S 500 V AC	kA	66 50/66				
Bated ultimate short-circuit	Breaking capacity	КA	50/00				
breaking capacity I _{cu} (rms value)	N 500 V AC	kΑ					
	S 500 V AC	kA	66				
	Z-Opt. A04 / A08 690 V AC	kA	50/66				
Permissible ambient temperatures	Operation Storage	°C °C	-20 +70				
Bated short-time withstand current I and	0.5 s	0	-40 +00 66				
at 50/60 Hz	1 s	kA	66				
At a rated voltage of 690 V, the I_{cw} value of the circuit breaker cannot be greater than	2 s 3 s	kA kA	55 45				
the $I_{\rm Cu}$ or $I_{\rm Cs}$ value at 690 V.	4 s	kA	35				
Permissible load	up to 50 °C ¹⁾	A	630	800	1000	1250	1600
breakers at cabinet interior temperature ³⁾⁴⁾	at 70 °C	A	630 630	800 800	1000	1250	1600
Rated rotor operating voltage U _{er}		V	2000				
Power loss at <i>I</i> _n	Fixed-mounted circuit breaker	W	20	30	45	70	110
side busbars and metal components ⁴⁾)	Withdrawable circuit breaker including guide frame	VV	40	60	90	140	225
Endurance	00						
without maintenance	mechanical electrical up to 690 V AC ⁶⁾	Oper.	10000				
with maintenance ⁵⁾	mechanical	Oper	12000				
	electrical up to 690 V AC ⁶⁾	cycles	12000				
Operating frequency	mechanical electrical up to 690 V AC ⁶⁾	1/h 1/h	60 20				
Minimum interval		ms	80				
between tripping operation by electronic trip	o unit and next making opera-						
lockout device)	ic mechanical resetting of the						
Service position			م 30°∳30° د	<u>د</u>	30° † 30°		
				and/			
			ЦЦ	or			
			NSE0_00061a	1000	NSE0_00062a		
Degree of protection			Operator pa	ker IP20, when anel with door s	fitted in cabine sealing frame If	et or frame P41	
Main conductor	Copper bars, bare	Qty.	1 x	1 x	2 x	2 x	2 x
minimum cross-sections	Conner hars, nainted black	Otv	1 v		40 x 10	2 ×	2 ×
	Copper bars, painted black	mm ²	40 × 10	50 × 10	60 × 10	40 × 10	50 × 10
Auxiliary conductors (Cu)	solid and		1 × 0.5 2	5 mm^2 ; 1 × AV	VG 14		
Max. no. of aux. conductors × cross-section	Tinely stranded with end sleev	ves	2 ×1.0 mm ²				
3-pole circuit breakers							
Fixed-mounted circuit breaker	app	orox. kg	57				
Withdrawable circuit breaker Guide frame	app	prox. kg	59 35				
4-pole circuit breakers	aht	JUN. NY	55				
Fixed-mounted circuit breaker	app	orox. kg	70				
Withdrawable circuit breaker Guide frame	app	prox. kg	72 46				
¹⁾ At 3WT840: 40 °C	aht	4)	These value	s apply in the r	case of sinusoi	dal current (50/	60 Hz) The hea
²⁾ Rated insulation voltage $U_{i} = 1000 \text{ VAC}$			ing/losses in	crease in the e	event of harmor	nics and higher	frequencies.
³⁾ The temperatures apply to the air surround	ding the upper third of the circu	5) Jit	Maintenance	e: replacement	of the contact	set and arc ch	ute.
breaker.		6)	Per contact	set. Disconnec	t. of the rated of	current In and p	ower factor = 0.

⁶⁾ Per contact set. Disconnect. of the rated current I_{n} and power factor = 0.8.

General data

Size				014/7005	014/7000	0WT040	
	Main and the		3WT820	3W F825	3W [832	3W1840	4000 (fine d
Rated current I_n at 50 °C, at 50/60 Hz ¹⁾	Main conductor	A	2000	2500	3200	3800 (withdrawable)	4000 (fixed-mounted)
	(only on 4-pole version)	A	2000	2500	3200	3800 (withdrawable)	4000 (fixea-mountea)
Rated operating voltage Ue at 50/60 Hz	· · · · ·	AC V	up to 690)			
Rated impulse	Main circuits ²⁾	kV	12				
withstand voltage U _{imp}	Auxiliary circuits	kV	4				
Utilization category	D		В				
Rated short-circuit making capacity <i>I</i> _{am} (peak value)	Breaking capacity up to						
	N 500 V AC	KA					
	Z-Opt. A04 / A08 690 V AC	kA kA	145				
Rated service short-circuit	Breaking capacity up to						
breaking capacity I _{cs} (rms value)	N 500 V AC	kA					
	S 500 V AC	kA	66				
	Z-Opt. A04 / A08 690 V AC	k kA	50/66	50/66	50		
Rated ultimate short-circuit	Breaking capacity						
	N 500 V AC	k k A					
	S 500 V AC Z-Opt. A04 / A08 690 V AC	kA kA	66 50/66	50/66	50		
Permissible ambient temperatures	Operation	°C	-20 +7	70			
• 	Storage	°C	-40 +8	30			
Rated short-time withstand current I_{cw}	0.5 s	L.A	66				
At a rated voltage of 690 V, the I_{CW} value of	2 s	kA kA	55				
the circuit breaker cannot be greater than	3 s	kA	45				
the I_{CU} or I_{CS} value at 690 V.	4 S	KA	35	2500	2000	22005)	40006)
for fixed-mounted and withdrawable circuit	at 60 °C	A	1950	2500	3200 2900	3800°	40000
breakers at cabinet interior temperature ³⁾⁴⁾	at 70 °C	А	1800	1950	2700		
Rated rotor operating voltage U _{er}		V	2000				
Power loss at In with 2 phase symmetry load (without line	Fixed-mounted circuit breaker	r W	170	325	420		902
side busbars and metal components ⁴)	including guide frame	vv	310	555	700	1050	
Endurance							
without maintenance	mechanical electrical up to $690 \text{ V} \text{ AC}^{8}$	Oper.	10000		4000	200010)	200010)
with maintenance ⁷⁾	mechanical	Oner	12000		4000	2000	2000
With Maintenance	electrical up to 690 V AC ⁸⁾	cycles	12000		10000	4000 ¹⁰⁾	4000 ¹⁰⁾
Operating frequency	mechanical	1/h	60		10	- 00	- 00
Minimum internet	electrical up to 690 V AC ^o	1/h	20	20	10	60	60
between tripping operation by electronic trip unit	and next making operation of the	e ms	80				
circuit breaker (only with automatic mechanical r	esetting of the lockout device)						
Service position			30° • 30)° /~	× ^{30°}	1 30°	
				7 and	v î 🔪	17ĥ	
					or y		
Degree of protection			NSE0_000	61a	NS	E0_00062a	
Degree of protection			Operator	panel wit), when fitt n door sea	ling frame IP41	
Main conductor	Copper bars, bare	Qt <u>y</u> .	2 ×	3 ×	3 ×	4 ×	4 ×
minimum cross-sections		mm ²	100×10	100×10	100 × 10	120 × 10	120 × 10
	Copper bars, painted black	Qty. mm ²	2 × 80 × 10	$2 \times 100 \times 10$	3 × 100 × 10	4 × 100 × 10	4 × 100 × 10
Auxiliary conductors (Cu)	solid and		1×0.5	2.5 mm^2	100×10	14	100 × 10
Max. no. of aux. conductors × cross-section	finely stranded with end slee	eves	2 ×1.0 m	m ²	, 1 × / 0/0	17	
Weights							
3-pole circuit breakers							o o ⁰)
 Fixed-mounted circuit breaker Withdrawable circuit breaker 	ap	prox. kg prox. ka	57 59	57 59	61 63	 64	92 ⁰⁷
Guide frame	ap	prox. kg	35	35	37	54 ⁹⁾	
4-pole circuit breakers			70	70	74		1009)
Fixed-mounted circuit breaker Withdrawable circuit breaker	ap	prox. kg prox. ka	70 72	70 72	74 76	 77	
Guide frame	ap	prox. kg	46	46	48	64 ⁹⁾	
¹⁾ At 3WT840: 40 °C.		5)	Withdraw	able circu	it breakers	i.	
²⁾ Rated insulation voltage $U_{\rm i}$ = 1000 V AC.		6)	Fixed-mo	unted circ	uit breake	rs.	
³⁾ The temperatures apply to the air surround	ling the upper third of the circ	uit ⁷⁾	Maintena	nce: repla	cement of	the contact set and a	rc chute.
4) These values apply in the case of sinusoic	lal current (50/60 Hz). The bor	8) at- 0	Per conta	act set. Dis	connect. c	of the rated current I_{n} a	and power factor $= 0.8$.

'' These values apply in the case of sinusoidal current (50/60 Hz). The heating/losses increase in the event of harmonics and higher frequencies. Including vertical busbars.
 ¹⁰⁾At 3WT840 applicable up to 500V AC only.

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General data

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			3WT
Operating mecha	anisms		
Manual operating	g mechanism with mechanical closing		
Closing	Max. force required to operate the hand lever	N	210
Charging stored- energy feature	Required number of strokes on the hand lever		5
Manual operating	g mechanism with mechanical and electrical c	losing	
Charging stored- energy feature			see "Manual operating mechanism with mechanical closing"
Closing	Operating range		0.7 1.1 × U _s
solenoid (Y1)	Extended operating range for battery operation ¹⁾	for 24 V DC, 110 V DC, 220 V DC	$0.7 \dots 1.26 \times U_{\rm s}$
	Power input	AC/DC VA/W	15
	Minimum command duration at $U_{\rm s}$ for the activation solenoid	ms	60
	Total closing time at $U_{\rm s}$ after start of closing command for the activation solenoid, suitable for synchronizing tasks	ms	80
	Short-circuit protection Smallest permissible DIAZED fuse (operational class gL)/miniature circuit breaker with C-characteristic	1 A TDz (time-lag)/1 A	
Manual/motor op	erating mechanism with mechanical and elec	trical closing	
Manual operating mechanism			see "Manual operating mechanism with mechanical closing"
Motor	Operating range		0.7 1.1 × U _s
	Extended operating range for battery operation ¹⁾	for 24 V DC, 110 V DC, 220 V DC	$0.7 \dots 1.26 \times U_{\rm s}$
	Power input to motor	AC/DC VA/W	40
	Time required to charge the stored-energy mechanism	n1×U _s ss	20
Closing solenoid			see "Manual operating mechanism with mechanical and electrical closing"
	Short-circuit protection		
	Motor and activation solenoid for the same rated contr	ol supply voltages:	
For motor and	Smallest permissible DIAZED fuse (operational class	at $U_{\rm s}$ = 24 V	2 A TDz (time-lag)/2 A
closing solenoid	ge//miniature circuit breaker with C-characteristic	at $U_{\rm S} = 110 \dots 127 \text{ V}$	1 A TDz (time-lag)/1 A
		at U _s = 220 250 V	1 A TDz (time-lag)/1 A
Auxiliary release	S		
Shunt	Operating value	pickup	$\geq 0.7 \times U_{\rm s}$ (circuit breaker is tripped)
(F1, F2)	Operating range		0.7 1.1 × U _s
	For continuous command (100 % du locks out on momentary-contact cor	nmands	
	Extended operating range for battery operation ¹⁾	for 24 V DC, 110 V DC, 220 V DC	$0.7 \dots 1.26 \times U_{\rm s}$
	Rated control supply voltage $U_{\rm s}$	AC 50/60 Hz V DC V	110 127, 220 240 24, 110 125, 220 250
	Power input	AC/DC VA/W	15
	Minimum command duration at $U_{ m s}$	ms	60
	Opening time of circuit breaker at $U_{\rm S}$ = 100 %	AC/DC ms	≤ 80
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¹⁾ The operating range is only permissible for the specified rated voltages and corresponds to the battery charging voltage.



General data

					3WT			
Auxiliary release	S							
Undervoltage release "r" (F3) and		Operating values	pickup dropout		\geq 0.85 × U _s (circuit breaker can be closed) (0.35 0.7) × U _s (circuit breaker is tripped)			
"rc" (F8)		Operating range			0.85 1.1 × <i>U</i> _s			
		Extended operating range in battery operation ¹⁾	for 24 V DC, 110 220 V DC	V DC,	$0.7 \dots 1.26 \times U_{s}$			
		Rated control supply voltage $U_{\rm S}$	AC 50/60 Hz DC	V V	110 127, 220 240, 380 415 24, 110 125, 220 250			
		Power input	AC DC	VA W	15 15			
		Opening time of circuit breaker at $U_{\rm s}$	= 0					
		Version "r" (F3) Instantaneous With 100 ms delay	≤ 100 ≤ 300					
		<u>Version "rc" (F8)</u> With delay, t _d = 0.2 3.2 s		s	0.2 3.2			
		Reset via additional NC contact - dire	ect switching-off	ms	≤ 100			
		Short-circuit protection						
		Smallest permissible DIAZED fuse (or miniature circuit breaker with C-chara	oerational class gL)/ cteristic		1 A TDz (ti	ime-lag)1 A		
Contact position	-driven auxilia	ary switches (S1, S2, S3, S4, S5, S	6, S60, S61)					
Rated insulation vo	ltage U _i		400					
Rated operating vo	ltage <i>U</i> e			V	400			
Switching capacity	AC, 50/60 Hz	Rated operating voltage $U_{\rm e}$ Rated operating current $I_{\rm e}$ /AC-12 Rated operating current $I_{\rm e}$ /AC-15		V A A	up to 24 10 6	110 10 6	220/230 10 6	380/400 10 4
	DC	Rated operating voltage $U_{\rm e}$ Rated operating current $I_{\rm e}$ /DC-12 Rated operating current $I_{\rm e}$ /DC-15		V A A	24 10 10	110 3.5 1.2	220 1 0.4	
Short-circuit protec	tion ²⁾	Largest permissible DIAZED fuse (op Largest permissible miniature circuit l	erational class gL/gG preaker with C-charac) teristic	10 A TDz, 10 A	16 A Dz		
Ready-to-close s	ignaling switc	ch (S7) and "tripped" signaling sw	vitch (S11)					
Switching capacity	AC, 50/60 Hz	Rated operating voltage $U_{\rm e}$ Rated operating current $I_{\rm e}$		V A	110 0.14	220 0.1		
	DC	Rated operating voltage $U_{\rm e}$ Rated operating current $I_{\rm e}$		V A	24 0.2	220 0.1		
Short-circuit protection ²⁾		Largest permissible DIAZED fuse (op	2 A Dz (quick)					
"Tripped" signaling	switch (S11)	Signal duration after tripping			continuous	, until reset		
^{I)} The operating rand	ae is only permis	sible for the specified rated voltages						

and corresponds to the battery charging voltage. ²⁾ Without any welding of the contacts only at $I_k \le 1$ kA in accordance with IEC 60947-5-1.

3WT Air Circuit Breakers up to 4000 A (AC)

3- and 4-pole, withdrawable version inclusive standard accessories

Sele	ction a	nd ordering d	lata – quick sel	ection			
Size	Rated	Short-circuit	Short-time	3-pole		4-pole	
	current I _n	breaking capacity I _{cu} /500 V	withstand current, I _{cw} /500 V 1 s ¹⁾	Article No.	Weight approx.	Article No.	Weight approx.
	А	kA	kA		kg		kg
ETU	J35WT, ∣	horizontal mai	in circuit connec	ction (breaking capacity N)			
	400 630 800 1000 1250 1600	55 55 55 55 55 55 55	50 50 50 50 50 50 50	3WT8040-5UA34-5AB2 3WT8060-5UA34-5AB2 3WT8080-5UA34-5AB2 3WT8100-5UA34-5AB2 3WT8120-5UA34-5AB2 3WT8160-5UA34-5AB2	58.000 58.000 58.000 58.000 58.000 61.000	3WT8044-5UA34-5AB2 3WT8064-5UA34-5AB2 3WT8084-5UA34-5AB2 3WT8104-5UA34-5AB2 3WT8124-5UA34-5AB2 3WT8164-5UA34-5AB2	76.000 76.000 76.000 76.000 76.000 79.000
ETU	J35WT,∣	horizontal mai	in circuit connec	ction (breaking capacity S)			
	400 630 800 1000 1250 1600	66 66 66 66 66 66	50 50 50 50 50 50 50	3WT8041-5UA34-5AB2 3WT8061-5UA34-5AB2 3WT8081-5UA34-5AB2 3WT8101-5UA34-5AB2 3WT8101-5UA34-5AB2 3WT8161-5UA34-5AB2	58.000 58.000 58.000 58.000 58.000 58.000 61.000	3WT8045-5UA34-5AB2 3WT8065-5UA34-5AB2 3WT8085-5UA34-5AB2 3WT8105-5UA34-5AB2 3WT8125-5UA34-5AB2 3WT8165-5UA34-5AB2	76.000 76.000 76.000 76.000 76.000 79.000
	630 800 1000 1250 1600 2000 2500 3200	66 66 66 66 66 66 66 66 66	66 66 66 66 66 66 66 66 66	3WT8062-5UA34-5AB2 3WT8082-5UA34-5AB2 3WT8102-5UA34-5AB2 3WT8122-5UA34-5AB2 3WT8162-5UA34-5AB2 3WT8202-5UA34-5AB2 3WT8252-5UA34-5AB2 3WT8322-5UA34-5AB2	94.000 94.000 94.000 94.000 94.000 94.000 94.000 100.000	3WT8066-5UA34-5AB2 3WT8086-5UA34-5AB2 3WT8106-5UA34-5AB2 3WT8126-5UA34-5AB2 3WT8166-5UA34-5AB2 3WT8206-5UA34-5AB2 3WT8256-5UA34-5AB2 3WT8326-5UA34-5AB2	118.000 118.000 118.000 118.000 118.000 118.000 118.000 118.000 124.000
ETU	J35WT, '	vertical main o	circuit connectio	on (breaking capacity S)			
11	3800	66	66	3WT8402-5UA36-5AB2	100.000	3WT8406-5UA36-5AB2	141.000
ETU	J37WT, I	horizontal mai	in circuit connec	ction (breaking capacity N)			
	400 630 800 1000 1250 1600	55 55 55 55 55 55 55	50 50 50 50 50 50 50	3WT8040-6UA34-5AB2 3WT8060-6UA34-5AB2 3WT8080-6UA34-5AB2 3WT8100-6UA34-5AB2 3WT8120-6UA34-5AB2 3WT8120-6UA34-5AB2	58.000 58.000 58.000 58.000 58.000 58.000 61.000	3WT8044-6UA34-5AB2 3WT8064-6UA34-5AB2 3WT8084-6UA34-5AB2 3WT8104-6UA34-5AB2 3WT8124-6UA34-5AB2 3WT8164-6UA34-5AB2	76.000 76.000 76.000 76.000 76.000 79.000
ETU	J37WT,∣	horizontal mai	in circuit connec	tion (breaking capacity S)			
	400 630 800 1000 1250 1600	66 66 66 66 66 66 66	50 50 50 50 50 50 50	3WT8041-6UA34-5AB2 3WT8061-6UA34-5AB2 3WT8081-6UA34-5AB2 3WT801-6UA34-5AB2 3WT8101-6UA34-5AB2 3WT8121-6UA34-5AB2 3WT8161-6UA34-5AB2	58.000 58.000 58.000 58.000 58.000 58.000 61.000	3WT8045-6UA34-5AB2 3WT8065-6UA34-5AB2 3WT8085-6UA34-5AB2 3WT8105-6UA34-5AB2 3WT8125-6UA34-5AB2 3WT8165-6UA34-5AB2	76.000 76.000 76.000 76.000 76.000 79.000
	630 800 1000 1250 1600 2000 2500 3200	66 66 66 66 66 66 66 66 66	66 66 66 66 66 66 66 66 66	3WT8062-6UA34-5AB2 3WT8082-6UA34-5AB2 3WT8102-6UA34-5AB2 3WT8122-6UA34-5AB2 3WT8162-6UA34-5AB2 3WT8202-6UA34-5AB2 3WT8252-6UA34-5AB2 3WT8322-6UA34-5AB2	94.000 94.000 94.000 94.000 94.000 94.000 94.000 100.000	3WT8066-6UA34-5AB2 3WT8086-6UA34-5AB2 3WT8106-6UA34-5AB2 3WT8126-6UA34-5AB2 3WT8166-6UA34-5AB2 3WT8206-6UA34-5AB2 3WT8256-6UA34-5AB2 3WT8326-6UA34-5AB2	118.000 118.000 118.000 118.000 118.000 118.000 118.000 118.000 124.000
ETU	J37WT <u>, '</u>	vertical main o	circuit connectio	on (breaking capacity S)			
11	3800	66	66	3WT8402-6UA36-5AB2	100.000	3WT8406-6UA36-5AB2	141.000

Electronic trip unit (ETU)

ETU35WT: protection functions LSI with LCD display ETU37WT: protection functions LSING²⁾ with LCD display

Accessories included

Motor operated mechanism,

 with mechanical and electrical closing, motor and closing solenoid
 220-240 V AC 50/60 Hz, 220-250 V DC,

 Shunt release "F"
 220-240 V AC 50/60 Hz, 220-250 V DC,

 with door sealing frame IP41, sealing cap over OFF button, and shutter
 and shutter

with out 2nd auxiliary release, with auxiliary switch 2 NO + 2 NC, with shutter

¹⁾ $I_{\rm CW}$ /500 V 0.5 s for breaking capacity N.

²⁾ Current transformer for overload protection in the neutral conductor and for ground-fault protection must be ordered separately, see page 2/32.

2

3- and 4-pole, fixed-mounted version inclusive standard accessories

Selection and ordering data – quick selection Size Rated Short-circuit Short-time 3-pole 4-pole current breaking withstand Article No. Weight Article No. Weight capacity current *I*n approx I_{cw} /500 V 1 s¹⁾ approx. I_{cu} /500 V kΑ kΑ ka A kg ETU35WT, orizontal main circuit connection (breaking capacity N) 3WT8040-5UA30-0AA2 3WT8060-5UA30-0AA2 3WT8080-5UA30-0AA2 50 34.000 47.000 400 55 34.0003WT8044-5UA30-0AA234.0003WT8064-5UA30-0AA234.0003WT8084-5UA30-0AA2 630 55 50 47 000 55 50 47.000 800 1000 1250 55 55 3WT8100-5UA30-0AA2 3WT8120-5UA30-0AA2 34.000 3WT8104-5UA30-0AA2 34.000 3WT8124-5UA30-0AA2 36.000 3WT8164-5UA30-0AA2 47.000 47.000 50 50 50 1600 55 3WT8160-5UA30-0AA2 49.000 ETU35WT horizontal main circuit connection (breaking capacity S 34.000 **3WT8045-5UA30-0AA2** 34.000 **3WT8065-5UA30-0AA2** 34.000 **3WT8085-5UA30-0AA2** 400 66 50 3WT8041-5UA30-0AA2 47 000 3WT8061-5UA30-0AA2 3WT8081-5UA30-0AA2 47.000 50 630 66 800 66 50 47 000 3WT8101-5UA30-0AA2 3WT8101-5UA30-0AA2 3WT8121-5UA30-0AA2 3WT8161-5UA30-0AA2 34.000 3WT8105-5UA30-0AA2 34.000 3WT8105-5UA30-0AA2 34.000 3WT8125-5UA30-0AA2 36.000 3WT8165-5UA30-0AA2 50 47.000 1000 66 50 50 1250 66 47 000 66 49.000 1600 3WT8062-5UA30-0AA2 57.000 3WT8066-5UA30-0AA2 70.000 Ш 630 66 66 57.000 **3WT8086-5UA30-0AA2** 57.000 **3WT8106-5UA30-0AA2** 57.000 **3WT8126-5UA30-0AA2** 57.000 **3WT8126-5UA30-0AA2** 3WT8082-5UA30-0AA2 3WT8102-5UA30-0AA2 3WT8122-5UA30-0AA2 66 66 70.000 800 Ш 1000 66 66 70 000 1250 66 70.000 66 3WT8162-5UA30-0AA2 57.000 3WT8166-5UA30-0AA2 Ш 1600 66 66 70 000 3WT8202-5UA30-0AA2 3WT8252-5UA30-0AA2 57.000 3WT8106-5UA30-0AA2 57.000 3WT8206-5UA30-0AA2 57.000 3WT8256-5UA30-0AA2 2000 66 66 70.000 Ш Ш 2500 66 66 70.000 66 3WT8326-5UA30-0AA2 3200 66 3WT8322-5UA30-0AA2 61.000 74.000 ETU35WT rcuit c breaking capacity ertio 4000 66 92.000 **3WT8406-5UA32-0AA2** Ш 66 3WT8402-5UA32-0AA2 106.000 ET<u>U37W</u>T norizo circuit conn n (breaking capacity N 34.000 3WT8044-6UA30-0AA2 34.000 3WT8064-6UA30-0AA2 34.000 3WT8084-6UA30-0AA2 34.000 3WT8104-6UA30-0AA2 34.000 3WT8124-6UA30-0AA2 34.000 3WT8124-6UA30-0AA2 36.000 3WT8164-6UA30-0AA2 3WT8040-6UA30-0AA2 400 55 50 47.000 3WT8060-6UA30-0AA2 3WT8080-6UA30-0AA2 3WT8100-6UA30-0AA2 630 55 50 47.000 50 50 50 800 55 47.000 1000 55 47.000 1250 55 50 3WT8120-6UA30-0AA2 47.000 3WT8160-6UA30-0AA2 1600 55 50 49 000 ETU37WT horizontal main circuit connection on (breaking cap 400 66 50 3WT8041-6UA30-0AA2 34.000 3WT8045-6UA30-0AA2 47.000 3WT8041-6UA30-0AA2 3WT8061-6UA30-0AA2 3WT8081-6UA30-0AA2 3WT8101-6UA30-0AA2 3WT8121-6UA30-0AA2 34.000 3WT8063-6UA30-0AA2 34.000 3WT8065-6UA30-0AA2 34.000 3WT8085-6UA30-0AA2 34.000 3WT8105-6UA30-0AA2 34.000 3WT8125-6UA30-0AA2 630 66 50 47.000 50 800 66 47.000 1000 66 50 47.000 50 47.000 1250 66 1600 50 3WT8161-6UA30-0AA2 36.000 3WT8165-6UA30-0AA2 49.000 66 70.000 Ш 630 66 66 3WT8062-6UA30-0AA2 57.000 3WT8066-6UA30-0AA2 57.000 3WT8066-6UA30-0AA2 57.000 3WT8086-6UA30-0AA2 57.000 3WT8106-6UA30-0AA2 57.000 3WT8126-6UA30-0AA2 57.000 3WT8126-6UA30-0AA2 57.000 3WT8266-6UA30-0AA2 57.000 3WT8266-6UA30-0AA2 800 1000 3WT8082-6UA30-0AA2 3WT8102-6UA30-0AA2 70.000 70.000 70.000 Ш 66 66 66 Ш 66 3WT8122-6UA30-0AA2 3WT8162-6UA30-0AA2 Ш 1250 66 66 70.000 1600 Ш 66 66 70.000 2000 2500 3WT8202-6UA30-0AA2 3WT8252-6UA30-0AA2 66 66 70.000 66 70.000 66 3200 66 3WT8322-6UA30-0AA2 61.000 3WT8326-6UA30-0AA2 74.000 Ш 66 ETU37WT, vertical main circuit connection (breaking capacity S) 92.000 **3WT8406-6UA32-0AA2** 4000 66 66 3WT8402-6UA32-0AA2 106.000 Ш

Electronic trip unit (ETU)

ETU35WT: protection functions LSI with LCD display ETU37WT: protection functions ${\rm LSING}^{2)}$ with LCD display

Accessories included

Motor operated mechanism,

with mechanical and electrical closing, motor and closing solenoid 220-240 V AC 50/60 Hz, Shunt release "F" 220-240 V AC 50/60 Hz, 220-250 V DC

with door sealing frame IP41, without 2nd auxiliary release, with auxiliary switch 2 NO + 2 NC

 $^{1)}$ $I_{\rm cw}/500$ V 0.5 s for breaking capacity N.

²⁾ Current transformer for overload protection in the neutral conductor and for ground-fault protection must be ordered separately, see page 2/3

3- and 4-pole, withdrawable version

Size	Rated	Short-circuit	Short-time	3-pole					4-pole				
	current	breaking	withstand	Article No				Weight	Article No.				Weig
	In	capacity	current,	Article No. or	Innlomont			approx.	Article No.	nunnlam	ont		appro
		I _{cu} /500 V	I _{CW} /500 V	(8th to 11th a	ind 13th to	16th			(8th to 11th	and 13t	h to 16th		
			157	position of A	ticle No.) n	must			position of	Article N	o.) must		
				be added.					be added.				
				For quick set	ection see				For quick se		500		
				below. Furthe	er options s	see			below. Furth	ner optic	ns see		
	A	kA	kA	pages 2/25 t	o 2/31			kg	pages 2/25	to 2/31			ł
ori	zontal n	nain circuit cor	nection (break	ing capacity I	V)								
	400	55	50	3WT8040-				58 000	3WT8044-			1	76.00
	630	55	50	3WT8060-				58 000	3WT8064-		-0000		76.0
	800	55	50	3WT8080-				58.000	3WT8084-		-0000		76.0
	1000	55	50	3WT8100-	4			58.000	3WT8104-D		-0000	l	76.0
	1250	55	50	3WT8120-	4			58.000	3WT8124-D	10004	-0000	l	76.0
	1600	55	50	3WT8160-	4			58.000	3WT8164-D		-0000	l .	76.0
ori	zontal n	nain circuit cor	nnection (break	ing capacity S	S)								
	400	66	50	3WT8041-DI	4			58.000	3WT8045-D		-0000	ſ	76.0
	630	66	50	3WT8061-D				58.000	3WT8065-D		-0000	l	76.0
	800	66	50	3WT8081-D				58.000	3WT8085-D	10004	-0000	l	76.0
	1000	66	50	3WT8101-				58.000	3WT8105-D		-0000		76.0
	1250	66	50	3WT8121-D				58.000	3WT8125-D		-0000		76.0
	1600	66	50	3WT8161-				61.000	3WT8165-D		-0000		79.0
	630	66	66	3WT8062-0	4			94.000	3WT8066-D	10004	-0000	l	118.0
	800	66	66	3WT8082-]004-00			94.000	3WT8086-D		-0000	l	118.0
	1000	66	66	3WT8102-D]004-00			94.000	3WT8106-D		-0000	l	118.0
	1250	66	66	3WT8122-D				94.000	3WT8126-D		-0000	l	118.0
	1600	66	66	3WT8162-				94.000	3WT8166-D		-0000		118.0
	2000	66	66	3WT8202-				94.000	3WT8206-D		-0000		118.0
	2500	66	66	3W18252-L				94.000	3W18256-L				118.0
ori	zontal n	nain circuit cor	nection at ton	vertical conn	action at	t boti	om	100.000	3W10320-L				124.0
ire	aking ca	anacity N) ⁵⁾	inection at top,		ection at		.om						
	400	55	50	3WT80/0-				58,000	3WT8044-			I	76.0
	630	55	50	3WT8060-				58,000	3WT8064-		-0000		76.0
	800	55	50	3WT8080-				58 000	3WT8084-		-0000		76.0
	1000	55	50	3WT8100-				58.000	3WT8104-		-0000		76.0
	1250	55	50	3WT8120-				58.000	3WT8124-D		-0000		76.0
	1600	55	50	3WT8160-D	<u>8-</u>			58.000	3WT8164-D	0008	-0000	I	76.0
00	tronic t	rin unit					Additional		Article No			Additional	
TI	l Onic u I Sth na	np unit osition of Articl	ANO)	supple-			price		supple-			price	
	<i>, oui p</i>		e NO.)	ments					ments			P	
U3	5WT: LSI	with LCD display		5			х			5		x	
Ū3	7WT: LSI	NG ²⁾ with LCD dis	plav	6			X			5		x	
U4	5WT: LSII	N ²⁾⁶⁾ with LCD dis	play and additiona	al features 7			х			7		х	
U4	7WT: LSII	NG ²⁾⁶⁾ with LCD di	splay and additior	nal features 8			х		1	3		х	
эe	rating m	nechanism, aux	iliary release, a	auxiliary									
vit	ch (9th i	to 11th positio	n of Article No.,	•									
rtł	ner optio	ons see page 2	/25)										
anı	al operat	ing mechanism.			AA0		without			AAO		without	
th r	nechanic	al closing,											
tho	ut 1st and	d 2nd auxiliary rele	ases,										
th a	auxiliary s	witch 2 NO + 2 NO	2										
cci	essories	s (13th to 16th	position of Arti	cle No.,									
ırtł	ner optio	ons see pages .	2/26 to 2/31)										
th c	door seali	ng frame IP41.			5A	A2	without				5AA2	without	
th a	loor oooli	ng fromo ID41, oo		button	4) = 4					4)	EADO		
un u vd e	buttor	ng frame iP41, se	aling cap over OFI	- bullon,	⁷ 5A	ND2	Y			.,	SAD2	Y	
		si	ze II, 630 3800	A			X					x	
th c	toor soali	na frama IP/1			4) 50	E2				4)	5AE2		
if ot	lock dev	ice CES instead o	of OFE button ³⁾		JA	172					JAFZ		
AV I	emovable	in OFF position).	NOT DUILOT										
id s	shutter	sinon position),	ze I, up to 1600 A				х					x	
ac	indition	si	ze II. 630 3800	A			x					x	
1	/500 V 0 P	5 e for breaking ca	nacity N										
'CW		former for aver	d protoction in th	noutral country	مع مصحا لا								
CUI	rrent trans	sormer for overloa	a protection in the	neutral conducto	or and for								
yro Tr			e ordered separat	ery, see page 2/3)८.								
۱hi	s disables	s mechanical or el	ectrical ON comm	ands.									
		for airquit brooks	re without quide fr	amo, soo also p	2/26								
Not	t available	e for circuit preake	is without guide if	anie, see also pa	aye 2/20.								

⁶⁾ ETU Release 2 prepared for communication and metering.

X = additional price



3- and 4-pole, withdrawable version

Size	Rated	Short-circuit	Short-time	3-pole				4-pole			
	current	breaking	withstand	Article No.			Weight	Article No.			Weight
	'n	I _{CU} /500 V	I _{CW} /500 V	Article No. su	pplement		approx.	Article No. su	pplement		approx.
			1 s ¹⁾	(8th to 11th an	nd 13th to 16	:h .t		(8th to 11th ar	nd 13th to 1 ricle No.) m	6th	
				be added.				be added.		451	
				For quick sele	ection see			For quick sele	ection see		
	^	kΔ	kΔ	below. Furthe	r options see		ka	below. Furthe	r options se	e	ka
Hor	A izontal n	kA nain circuit co	nnection at ton	pages 2/20 to	ection at h	ottom ⁵⁾	ĸy	pages 2/20 to	2/01.		ĸy
(bre	aking ca	pacity S)				ottom					
I	400	66	50	3WT8041-DD	100 8- 000]	58.000	3WT8045-DD	100 8- 00(76.000
1	630	66	50 50	3WT8061-DD			58.000	3WT8065-			76.000
i	1000	66	50	3WT8101-DD			58.000	3WT8105-DD			76.000
!	1250	66	50	3WT8121-DD		2	58.000	3WT8125-DD			76.000
<u> </u>	1600	66	50	3W18161-LL		<u></u>	61.000	3W18165-LL			79.000
II	800	66	66	3WT8082-DD		_	94.000	3WT8086-DD			118.000
II	1000	66	66	3WT8102-DD		2	94.000	3WT8106-DD			118.000
	1250 1600	66	66	3W18122-⊔∟ 3WT8162-□□		-	94.000	3W18126-LL	1008-001 1008-001		118.000
ii	2000	66	66	3WT8202-			94.000	3WT8206-			118.000
	2500	66 66	66 66	3WT8252-			94.000	3WT8256-			118.000
Ver	ical mai	n circuit conn	ection top and b	ottom (break		tv N)	100.000	3W10320-LL			124.000
	400	55	50	3WT8040-□□]	58.000	3WT8044-□□			76.000
į.	630	55	50	3WT8060-	1006-000		58.000	3WT8064-	1006-000		76.000
	800	55 55	50 50	3WT8080-			58.000	3WT8084-			76.000
i	1250	55	50	3WT8120-□□			58.000	3WT8124-DD	100 6- 00(76.000
1	1600	55	50	3WT8160-□□	1006-000]	58.000	3WT8164-□□	1006-000		76.000
Ver	ical mai	n circuit conn	ection, top and b	ottom (break	ing capaci	ty S)					
	400 630	66 66	50 50	3WT8041-DD]	58.000	3WT8045-			76.000
i	800	66	50	3WT8081-□□	1006-000	3	58.000	3WT8085-	1006-000		76.000
	1000	66 66	50 50	3WT8101-DD			58.000	3WT8105-			76.000
i	1600	66	50	3WT8161-DD			61.000	3WT8165-DD			79.000
	630	66	66	3WT8062-DD	1006-000]	94.000	3WT8066-DD	1006-000		118.000
11	800	66	66	3WT8082-DD		2	94.000	3WT8086-			118.000
	1250	66	66	3WT8122-DD			94.000	3WT8126-DD			118.000
Ш	1600	66	66	3WT8162-DD		2	94.000	3WT8166-DD			118.000
	2000	66	66	3WT8202-□□		4	94.000	3WT8206-LL			118.000
ii –	3200	66	66	3WT8322-□□	1006-000		100.000	3WT8326-□□	1006-000		124.000
II	3800	66	66	3WT8402-□□			118.000	3WT8406-□□	1006-000		141.000
Elec	tronic tr	ip unit		Article No.		Additional		Article No.		Additional	
(=1)	J; 8111 pC	Sillon of Artic	ie No.)	ments		price		ments		price	
ETU	35WT: LSI	with LCD display		5		x		5		x	
ETU	37WT: LSIN	VG ²⁾ with LCD di	splay splay and additional	features 7		X		6		X	
ETU	F7WT: LSI	NG ²⁾⁶⁾ with LCD	display and addition	al features 8		x		8		x	
Оре	rating m	echanism, au	xiliary release, au	ixiliary							
swit	ch (9th t	to 11th positio	on of Article No., i	further							
opu	ons see	page 2/25)				without				with out	
with	mechanica	al closing,			AAU	without			AAU	without	
with	ut 1st and	2nd auxiliary rel	eases,								
	auxiliary s	wilch 2 NO + 2 N	nocition of Artic	la Na	_			l	_		
furt	her optic	ons see pages	2/26 to 2/31)	e N0.,							
with	door seali	ng frame IP41,	,		5AA2	without			5A.4	42 without	
with	door sealii	ng frame IP41, se	ealing cap over OFF	button	⁴⁾ 5AB2	:			⁴⁾ 5AE	32	
and	shutter	s	size I, up to 1600 A			X				X	
with	door sealii	na frame IP41	5/20 II, 000 0000 A		⁴⁾ 54F2	^			4) 54F	2	
safet	y lock dev	ice CES instead	of OFF button ³⁾								
(key	removable	e in OFF position); size L up to 1600 A			x				x	
unu	Silution	5	size II, 630 3800 A			x				x	
¹⁾ I _{CW}	/500 V 0.5	s for breaking c	apacity N.			5) Can be con	verted to	vertical at top a	and horizon	tal main connect	ion at
²⁾ Cu	rrent trans	former for overlo	ad protection in the r	eutral conducto	or and for	bottom.					
gro 2)	ound-fault	protection must I	pe ordered separate	y, see page 2/3	32.	^o , ETU Releas	e 2 prepa	red for commu	nication and	d metering.	
ッ Th	s disables	s mechanical or e	electrical ON comma	nds.		X = additional	price				

⁴⁾ Not available for circuit breakers without guide frame, see also page 2/26.

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3- and 4-pole, withdrawable version

Size Rated	Short-circuit	Short-time	3-pole				4-pole				
current	breaking	withstand	Article No.			Weight	Article No.				Weight
'n	I _{cu} /500 V	I _{cw} /500 V 1 s ¹⁾	Article No. supplem (8th to 11th and 13t position of Article N be added.	nent h to 16th lo.) must	1	approx.	Article No. (8th to 11th position of be added.	supplement and 13th Article No	ent 1 to 16th 5.) must		approx.
			For quick selection	see			For quick s	selection s	see		
А	kA	kA	pages 2/25 to 2/31.	ons see		kg	pages 2/25	ther option $5 \text{ to } 2/31.$	ns see		kg
Without gui	de frame (break	ting capacity N,	guide frame see i	bage 2/	32)	-					
I 400	55	50	3WT8040-0003	-0000	1	36.000	3WT8044-	00003-			49.000
I 630	55	50 50	3WT8060-0003]	36.000	3WT8064-				49.000
I 1000	55	50	3WT8100-0003		1	36.000	3WT8104-				49.000
I 1250	55 55	50	3WT8120-0003	-0000]	36.000	3WT8124-				49.000
Without qui	de frame (break	50 ving capacity S			32)	58.000	3118164-				76.000
400		50			5 <i>2)</i>	36,000	3WT8045-				49 000
I 630	66	50	3WT8061-0003	-0000	i	36.000	3WT8065-	00003-			49.000
I 800	66	50	3WT8081-0003]	36.000	3WT8085-				49.000
1 1250	66	50 50	3WT8121-0003		1	36.000	3WT8105-				49.000 49.000
I 1600	66	50	3WT8161-0003	-0000	1	38.000	3WT8165-	00003-			51.000
II 630	66	66	3WT8062-0003	-0000	1	94.000	3WT8066-	00003-			118.000
II 800 II 1000	66 66	66 66	3W18082-LLLL3		1	94.000	3W18086- 3WT8106-				118.000
II 1250	66	66	3WT8122-0003	-0000	i	94.000	3WT8126-	00003-			118.000
II 1600	66	66	3WT8162-0003	-0000]	94.000	3WT8166-				118.000
II 2000 II 2500	66 66	66 66	3WT8202-0003	-0000	1	59.000 59.000	3WT8206- 3WT8256-				72.000 72.000
II 3200	66	66	3WT8322-0003	-0000	İ	63.000	3WT8326-	00003-			76.000
Electronic ti (ETU; 8th po	rip unit osition of Article	e No.)	Article No. supple- ments		Additional price		Article No. supple- ments			Additional price	
ETU35WT: LSI ETU37WT: LSI ETU45WT: LSI ETU47WT: LSI	with LCD display NG ²⁾ with LCD disp N ²⁾⁶⁾ with LCD disp NG ²⁾⁶⁾ with LCD disp	blay blay and additional splay and additiona	features 7 l features 8		X X X X			5 6 7 8		X X X X	
Operating n switch (9th options see	nechanism, aux to 11th position page 2/25)	iliary release, au of Article No., f	xiliary urther								
Manual operat with mechanic without 1st and with auxiliary s	ing mechanism, al closing, d 2nd auxiliary rele witch 2 NO + 2 NC	ases,	AA0		without			AA0		without	
Accessories further optic	s (13th to 16th p ons <mark>see pages</mark> 2	osition of Article 2/26 to 2/31)	e No.,								
with door seali	ng frame IP41,			5AA2	without			4)	5AA2	without	
with door seali and shutter	ing frame IP41, sea siz siz	aling cap over OFF t ze I, up to 1600 A ze II, 630 3800 A	button	* ¹ 5AB2	X X			4)	5AB2	X X	
with door seali safety lock dev (key removable and shutter	ing frame IP41, vice CES instead o e in OFF position); siz siz	f OFF button ³⁾ ze I, up to 1600 A ze II, 630 3800 A		⁴⁾ 5AF2	x x			4)	5AF2	x x	
¹⁾ I _{cw} /500 V 0.5	5 s for breaking ca	pacity N.			-						
 ²⁾ Current trans ground-fault 	sformer for overload protection must be	d protection in the ne ordered separately	eutral conductor and , see page 2/32.	for							
³⁾ This disable	s mechanical or ele	ectrical ON commar	nds.								
4) Not available	e for circuit breaker	rs without guide frar	ne, see also page 2/	26.							

 Can be converted to vertical at top and horizontal main connection at bottom.

ETU Release 2 prepared for communication and metering.

X = additional price

3- and 4-pole, fixed-mounted version

2

Selection and ord	lering data	l										
Size Rated current break Capacity In Control C	-circuit ing city 00 V	Short-time withstand current, <i>I</i> _{cw} /500 V 1 s ¹)	3-pole Article No. su (8th to 11th a position of Ar be added. For quick sel	upplem ind 13ti ticle No	ent n to 16th o.) must see		Weight approx.	4-pole Article No. Article No. se (8th to 11th a position of A be added. For quick se	uppleme and 13th rticle No ection s	ent n to 16th o.) must		Weight approx.
A kA		kΔ	below. Further	er optio	ns see		ka	below. Furth	er option	ns see		ka
Horizontal main ci	ircuit conn	ection (breaking	g capacity I	V)			Rg	pages 2/20 t	0 2/01.			Ng
400 55 630 55 800 55 1000 55 1250 55 1600 55		50 50 50 50 50 50 50 50	3WT8040-00 3WT8060-00 3WT8080-00 3WT8100-00 3WT8120-00 3WT8160-00				34.000 34.000 34.000 34.000 34.000 34.000	3WT8044- 3WT8064- 3WT8084- 3WT8104- 3WT8124- 3WT8164-	0			47.000 47.000 47.000 47.000 47.000 47.000
Horizontal main ci	ircuit conn	ection (breaking	g capacity S	5)			04.000					47.000
400 66 630 66 800 66 1000 66 1250 66 1600 66		50 50 50 50 50 50 50	3WT8041-UI 3WT8061-UI 3WT8081-UI 3WT8101-UI 3WT8121-UI 3WT8161-UI		- U U U U - O O O O - O O O O O - O O O O O - O O O O		34.000 34.000 34.000 34.000 34.000 36.000	3W18045- 3WT8065- 3WT8085- 3WT8105- 3WT8125- 3WT8165-	0- 0- 0- 0- 0- 0-			47.000 47.000 47.000 47.000 47.000 49.000
$\begin{array}{c ccccc} & 630 & 66 \\ & 800 & 66 \\ & 1000 & 66 \\ & 1250 & 66 \\ & 1600 & 66 \\ & 2000 & 66 \\ & 2500 & 66 \\ & 3200 & 66 \\ \end{array}$		66 66 66 66 66 66 66 66 66	3WT8062-00 3WT8082-00 3WT8102-00 3WT8122-00 3WT8162-00 3WT8202-00 3WT8252-00 3WT8322-00				57.000 57.000 57.000 57.000 57.000 57.000 57.000 61.000	3WT8066- 3WT8086- 3WT8106- 3WT8126- 3WT8166- 3WT8206- 3WT8256- 3WT8326-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			70.000 70.000 70.000 70.000 70.000 70.000 70.000 74.000
Vertical main circu	uit connect	tion (breaking c	apacity S)									
Electronic trip uni (ETU; 8th position ETU35WT: LSI with LC ETU37WT: LSING ²) wi ETU45WT: LSING ²) wi ETU45WT: LSING ²)	t of Article D display th LCD display th LCD display with LCD display	No.) ay ay and additional fe olay and additional	Article No. supple- ments 5 6 eatures 7 features 8			Additional price X X X X X	52.000	Article No. supple- ments 5 6 7 8			Additional price X X X X X	100.000
switch (9th to 11th options see page	nism, auxil position (2/25)	of Article No., fu	killary Irther									
Manual operating mec with mechanical closir without 1st and 2nd au with auxiliary switch 2	chanism, ng, uxiliary releas NO + 2 NC	Ses,		AA0		without			AA0		without	
Motor operated mecha with mechanical and e motor and closing sole Shunt release "F"	anism, electrical clos enoid 220 220 220	sing, -240 V AC 50/60 H: -250 V DC, -240 V AC 50/60 H:	Z, Z,	UA3		x			UA3		x	
without 2nd auxiliary re with auxiliary switch 2	220 elease, NO + 2 NC	-250 V DC										
Motor operated mecha with mechanical and e motor and closing sole	anism, electrical clos enoid 220	sing, -240 V AC 50/60 H:	Ζ,	UN3		x			UN3		x	
Undervoltage release	"r", "F3" 220	-250 V DC, -240 V AC 50/60 H:	Ζ,									
Shunt release "F"	220 220 220	-250 V DC -240 V AC 50/60 H: -250 V DC	Ζ,									
with auxiliary switch 2	NO + 2 NC		N -									
further options se	e pages 2/2	26 to 2/31)	e NO.,									
with door sealing fram	ie IP41				0AA2	without				0AA2	without	
with door sealing fram safety lock device CES (key removable in OFF	e IP41, S instead of (= position)	OFF button ³⁾			0AB2	x				0AB2	x	
with door sealing fram sealing cap over OFF and mutual mechanica	ne IP41, button al interlock fo	or 3WT circuit break	ker		0AC2	x				0AC2	x	
 I_{cw}/500 V 0.5 s for b Current transformer 	for overload	acity N. protection in the ne	utral conduct	or and f	4 or 1) ETU Release	e 2 prepa price	red for comm	unicatio	n and m	etering.	

Current transformer for overload protection in the neutral conductor and for ground-fault protection must be ordered separately, see page 2/32. ³⁾ This disables mechanical or electrical ON commands.

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Siemens LV 35 · 2019

Non-automatic air circuit-breakers, 3- and 4-pole, withdrawable version

D:	Data 1	Object i ii		0					4				
size	Rated	Short-circuit		3-pole					4-pole				
	L	capacity		Article No.				Weight	Article No.				We
	-11	I _{CC} /500 V		Article No.	supplement		ć	approx.	Article No.	supplen	nent		арр
		00		(8th to 11th	and 13th to	o 16th			(8th to 11th	and 13	th to 16th		
				position of	Article No.) I	must			position of a	Article N	io.) must		
				be added.					be added.				
				For quick s	election see				For quick s	election	see		
				Delow. Furt	to 2/31	see			Delow. Furt	to $2/31$	ons see		
	A	kA		pages 2/20	10 2/31.			kg	payes 2/20	10 2/31.			
Vith	ndrawabl	e version, hore	rizontal main										
	800	55	ng capacity c)	3WT8080-4		חח		58 000	3WT8084-4				76.0
	1250	55		3WT8120-4				58.000	3WT8124-4		-0000		76.0
	1600	66		3WT8161-4				61.000	3WT8165-4		-0000		79.0
	2000	66		3WT8202-/				94 000	3WT8206-/				118 (
	2500	66		3WT8252-4		חחו		94.000	3WT8256-4				118.0
	3200	66		3WT8322-4			1	00.000	3WT8326-4		-0000		124.0
Vitk	ndrawabl	e version, ho	rizontal main										
irc	uit conne	ection at top.	vertical										
on	nection a	t bottom ¹⁾ (br	eaking capacity S)									
	800	55		3WT8080-/		חח		58 000	3WT808/-/				76 (
	1250	55		3WT8120-/		חחו		58 000	3WT8124-/				70.0
	1600	66		3WT8161-4				61.000	3WT8165-4				79.0
	2000	66		3WT9202 /				94 000	3WT2206				110 0
	2500	66		3WT8252-/		חח		94.000	3WT8256-/				118.0
	3200	66		3WT8322-4			1	00.000	3WT8326-4				124.0
Vitk	ndrawabl	eversion ver	tical connection at					00.000					
h	and hotte	om (breaking	canacity S)										
σμ								50.000	0WT0004				70.0
	1050	55 EE		3W18080-4				58.000	3W18084-4				76.0
	1250	55 66		3WT8161-4				61 000	3WT8165-4				76.0
	0000	00		SWT0101-4				01.000	SWT0105-4				110.0
	2000	66		3W18202-4				94.000	3W18206-4				118.0
	2000	66		3WT9202-4			1	94.000	3WT9226-/				124.0
	3800	66		3WT8402-4		חחו	1	00.000	3WT8406-4				141 (
Vitk	ndrawahl	e version with	hout quide frame										
hre	aking ca	nacity S. duid	ie irame see										
bre	aking ca e 2/32)	pacity S, guid	ie frame see										
bre bag	aking ca e 2/32)	pacity S, guid	ie frame see	0WT0000 /				00.000	014/70004				40.0
bre ag	aking ca e 2/32) 800	55	le frame see	3WT8080-4				36.000	3WT8084-4		-0000		49.0
bre ag	aking ca e 2/32) 800 1250 1600	55 55 66		3WT8080-4 3WT8120-4 3WT8161-4				36.000 36.000	3WT8084-4 3WT8124-4 3WT8165-/		-0000		49.0 49.0
bre ag	aking ca e 2/32) 800 1250 1600	55 55 66	le frame see	3WT8080-4 3WT8120-4 3WT8161-4				36.000 36.000 38.000	3WT8084-4 3WT8124-4 3WT8165-4		-000		49.0 49.0 51.0
bre	aking ca e 2/32) 800 1250 1600 2000 2500	55 55 66 66		3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 2WT82524				36.000 36.000 38.000 59.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4		-0000		49.0 49.0 51.0 72.0
ore	aking ca e 2/32) 800 1250 1600 2000 2500 2500	55 55 66 66 66 66		3WT8080-4 3WT8120-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8202-4 3WT8202-4				36.000 36.000 38.000 59.000 59.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4				49.0 49.0 51.0 72.0 72.0
bre	aking ca e 2/32) 800 1250 1600 2000 2500 3200	55 55 66 66 66 66 66		3WT8080-4 3WT8120-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8322-4				36.000 36.000 38.000 59.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4		-0000 -0000 -0000 -0000 -0000		49.0 49.0 51.0 72.0 72.0 76.0
bre bag	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating me	55 55 66 66 66 66 66 66 echanism, au	xiliary release,	3WT8080-4 3WT8120-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8322-4 Article No.			ditional	36.000 36.000 38.000 59.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No.		-0000 -0000 -0000 -0000 -0000	Additional	49.0 49.0 51.0 72.0 72.0 76.0
bre bag	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating mo iliary swit	55 55 66 66 66 66 66 echanism, au	xiliary release,	3WT8080-4 3WT8120-4 3WT8120-4 3WT8202-4 3WT8202-4 3WT8252-4 3WT8322-4 Article No. supple- monts		Add	ditional	36.000 36.000 38.000 59.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 Article No. supple- popte			Additional price	49.0 49.0 51.0 72.0 72.0 76.0
Dpe Dpe uxi 9th	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating me iliary swit to 11th p	55 55 66 66 66 66 66 echanism, au tch	xiliary release, ticle No.,	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8252-4 3WT8322-4 Article No. supple- ments		Add	ditional	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments			Additional price	49.0 49.0 51.0 72.0 72.0 76.0
bre bag Dpe uxi 9th urti	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating me iliary swit to 11th p her option	55 55 66 66 66 66 66 echanism, au tch position of Arn ns see page 2	xiliary release, ticle No., 2/25)	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8252-4 Article No. supple- ments		Add	ditional	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8266-4 3WT8256-4 3WT8326-4 Article No. supple- ments			Additional price	49.0 49.0 51.0 72.0 72.0 76.0
bre bag Dpe uxi 9th urti Ianu	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating mo filary swit to 11th p her option ual operatir	55 55 66 66 66 66 66 66 66 66 66 66 66 6	xiliary release, ticle No., 2/25)	3WT8060-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8252-4 Article No. supple- ments	AA0	Add pric	ditional ce	36.000 36.000 38.000 59.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 Article No. supple- ments	AA0		Additional price without	49.0 49.0 51.0 72.0 76.0
Dpe Dpe uxi 9th urti 1anu	aking ca e 2/32) 800 1250 1600 2500 3200 rating me filiary swit to 11th p her option Jal operatir mechanica	55 55 66 66 66 66 66 echanism, au toh position of Ari ns see page 2 ng mechanism, al i closing,	xiliary release, ticle No., 2/25)	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8322-4 Article No. supple- ments	AA0	Add price	ditional ce	36.000 36.000 38.000 59.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0		Additional price without	49.0 49.0 51.0 72.0 72.0 76.0
bre bag)pe uxi 9th urti lanu ith r ith r	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating me to 11th p her option ual operatin mechanica out 1st and	55 55 66 66 66 66 66 66 echanism, au tch position of Arn ns see page 2 ng mechanism, al closing, 2nd auxiliary rel	xiliary release, ticle No., 2/25)	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8252-4 Article No. supple- ments	AA0	Add price	ditional ce	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments		-0000 -0000 -0000 -0000 -0000 -0000	Additional price without	49.0 49.0 51.0 72.0 72.0 76.0
)pe uxi 9th urti itho itho	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating ma to 11th p her option Jual operatin mechanica uut 1st and auxiliary swit	55 55 66 66 66 66 66 echanism, au. tch position of Arn ns see page 2 ng mechanism, 1 closing, 2nd auxiliary rel vitch 2 NO + 2 N	xiliary release, ticle No., 2/25) leases, IC	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8252-4 Article No. supple- ments	AA0	Add price	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0		Additional price without	49.0 49.0 51.0 72.0 72.0 76.0
Dpe Dpe uxi 9th urti 1anu iith i iith a 1oto	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating me to 11th p her option Jal operation auxiliary swit to 11th p her option Jal operation auxiliary swit to a 11th p her option auxiliary swit to a 11th p	55 55 66 66 66 66 66 echanism, au. tch position of Ari ns see page 2 ng mechanism, I closing, 2nd auxiliary rel vitch 2 NO + 2 N mechanism,	xiliary release, ticle No., 2/25) eases, IC	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8252-4 Article No. supple- ments	AA0	Add price with	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 Article No. supple- nents			Additional price without X	49.0 49.0 51.0 72.0 76.0
Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating me filary swit to 11th p her option ual operatir mechanica auxiliary sw r operated mechanica	55 55 66 66 66 66 66 66 66 66 66 66 60 60 60	xiliary release, ticle No., 2/25) leases, IC	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8322-4 Article No. supple- ments	AA0	Add price with	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 Article No. supple- ments	AA0	-0000 -0000 -0000 -0000 -0000	Additional price without X	49.0 49.0 51.0 72.0 72.0 72.0 72.0
Dpe uxi 9th urti lanu ith r itho ith r itho ith r ioto	aking ca e 2/32) 800 1250 2000 2500 3200 rating me iliary swit to 11th p her option al operatir mechanica uut 1st and auxiliary swit to 11th p her option rationg me har operated mechanica r and closi	55 55 66 66 66 66 66 66 66 66 66 66 66 6	xiliary release, ticle No., 2/25) leases, IC closing, 220-240 V AC 50/60 H	3WT8060-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8322-4 Article No. supple- ments	AA0	Add price with	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 Article No. supple- ments	AA0	-0000 -0000 -0000 -0000 -0000	Additional price without X	49.0 49.0 51.0 72.0 72.0 76.0
Dpe Dpe Uxi 9th Uttri 1anu 1anu 1anu 1anu 1anu 1anu 1anu 1anu	aking ca e 2/32) 800 1250 1600 2500 3200 rating me iliary swit to 11th p her optio. ual operatin mechanica r and closi	55 55 66 66 66 66 66 66 66 66 66 66 60 60 60	xiliary release, ticle No., 2/25) leases, IC closing, 220-240 V AC 50/60 H 220-250 V DC, 220-250 V DC,	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8322-4 Article No. supple- ments	AA0	Add price with	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0	-0000 -0000 -0000 -0000 -0000	Additional price without X	49.0 49.0 51.0 72.0 72.0 76.0
Dpenag Dp	aking ca e 2/32) 800 1250 1600 2500 3200 rating me illary swit to 11th p her option ual operatin mechanica r and closi t release "F	55 55 66 66 66 66 66 66 66 66 66 66 70 70 70 70 70 70 70 70 70 70 70 70 70	xiliary release, ticle No., 2/25) leases, IC closing, 220-240 V AC 50/60 H 220-250 V DC, 220-240 V AC 50/60 H 220-250 V DC,	Z,	AA0	Add price with	ditional ce	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0		Additional price without X	49.0 49.0 51.0 72.0 72.0 76.0
Dpe Dpe Uxi Dpe Uxi Dpe Uxi Dpe Uxi Difference Uxi Difference Dpe Uxi Difference Differ	aking ca e 2/32) 800 1250 1250 2200 2500 3200 rating ma iliary swit to 11th p her option Jual operatin mechanica out 1st and auxiliary swi r operated mechanica r and closi t release "F	55 55 66 66 66 66 66 66 66 90 90 90 90 90 90 90 90 90 90 90 90 90	xiliary release, ticle No., 2/25) eases, IC 220-240 V AC 50/60 H 220-250 V DC, 220-240 V AC 50/60 H 220-250 V DC	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8252-4 Article No. supple- ments	AA0	Add price with	ditional ce	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124- 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0		Additional price without X	49.0 49.0 51.0 72.0 72.0 76.0
Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe	aking ca e 2/32) 800 1250 1250 2000 2500 3200 rating me bar option ual operatir mechanica r and closi t release "F out 1st and auxiliary sw r operated mechanica r and closi t release "F	pacity S, guid 55 55 66 66 66 66 66 66 66 66	xiliary release, ticle No., 2/25) leases, IC 220-240 V AC 50/60 H 220-250 V DC, 220-250 V DC, 220-250 V DC	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 AWT8252-4 Article No. supple- ments	AA0	Add price	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0		Additional price without X	49.0 49.0 51.0 72.0 72.0 76.0
Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating me filary swit to 11th p her option ual operatir mechanica r operated mechanica r and closi t release "F out 2nd aux auxiliary sw	pacity S, guid 55 55 66 66 66 66 66 66 66 67 68 68 69 69 69 60 60 60 60 60 60 60 60 60 60	xiliary release, ticle No., 2/25) leases, IC closing, 220-240 V AC 50/60 H 220-240 V AC 50/60 H 220-250 V DC, 220-240 V AC 50/60 H 220-250 V DC	3WT8060-4 3WT8120-4 3WT8161-4 3WT822-4 3WT822-4 Article No. Supple- ments	AA0	Add price with	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 Article No. supple- ments	AA0		Additional price without X	49.(49.(51.(72.(76.(
Dpen Dpen Dpen Dpen Dpen Dpen Dpen Dpen	aking ca e 2/32) 800 1250 2000 2500 3200 rating me iliary swit to 11th p her option al operatir mechanica r and closi t release "F out 2nd aux auxiliary swit drawablo	pacity S, guid 55 55 66 66 66 66 66 66 66 66	xiliary release, ticle No., 2/25) leases, IC closing, 220-240 V AC 50/60 H 220-250 V DC, 220-240 V AC 50/60 H 220-250 V DC, 220-250 V DC IC	3WT8060-4 3WT8120-4 3WT8161-4 3WT822-4 3WT822-4 Article No. supple- ments Iz, Iz,	AA0	Add price with	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 Article No. supple- ments	AA0		Additional price without X	49.0 49.0 51.0 72.0 76.0
Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe Dpe	aking ca e 2/32) 800 1250 1600 2000 2500 3200 rating mu illary swi to 11th p her optio. Jal operatir mechanica rand closi t release "F out 2nd aux auxiliary swi drawable essories	pacity S, guid 55 55 66 66 66 66 66 66 66 66	xiliary release, ticle No., 2/25) leases, IC closing, 220-240 V AC 50/60 H 220-250 V DC, 220-240 V AC 50/60 H 220-250 V DC IC position of Article	3WT8080-4 3WT8120-4 3WT8161-4 3WT822-4 3WT822-4 Article No. supple- ments Iz, Iz, No.,	AA0	Add price with	ditional ce	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0		Additional price without X	49.(49.(51.(72.(72.(76.(
Dpenage Dpenag	aking ca e 2/32) 800 1250 1250 2500 3200 rating me illary swi to 11th p her option ual operatin mechanica r and closi t release "F out 2nd aux auxiliary swi ndrawable essories her option	55 55 66 66 66 66 66 66 66 66 7 7 8 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	xiliary release, ticle No., 2/25) eases, IC 220-240 V AC 50/60 H 220-250 V DC, 220-250 V DC, 220-250 V DC IC position of Article 2/26 to 2/31)	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8252-4 Article No. supple- ments	AA0	Add price with X	ditional ce	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0		Additional price without X	49.(49.(51.(72.(72.(76.(
Dpe auxil Soft Soft Annu vitho	aking ca aking ca e 2/32) 800 1250 2000 2500 3200 rating me to 11th p her option ual operation mechanica r and closi t release "F out 1st and auxiliary sw r operated mechanica r and closi t release "F out 2nd aux auxiliary sw her option door sealin	pacity S, guid 55 55 66 66 66 66 66 66 66 67 68 68 69 69 69 69 60 60 60 60 60 60 60 60 60 60	xiliary release, ticle No., 2/25) eases, IC 220-240 V AC 50/60 H 220-250 V DC, 220-250 V DC, 220-250 V DC IC position of Article 2/26 to 2/31)	3WT8080-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 AWT8252-4 Article No. supple- ments	AA0	Add price	ditional ce nout	36.000 36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- nents	AA0	5AA2	Additional price without X without without	49.0 49.0 51.0 72.0 76.0
Dee Survive Shund	aking ca aking ca e 2/32) 800 1250 2000 2500 3200 rating mo iliary swit to 11th p her option ual operatir mechanica rand closi t release "F out 1st and mechanica r and closi t release "F out 2nd aux auxiliary swit corrested mechanica r and closi t release "F out 2nd aux auxiliary swit corrested mechanica r and closi t release "F odrawable corrested her option door sealin door sealin	pacity S, guid 55 55 66 66 66 66 66 66 66 67 68 68 69 68 69 69 69 69 60 60 60 60 60 60 60 60 60 60	xiliary release, ticle No., 2/25) leases, IC closing, 220-240 V AC 50/60 H 220-250 V DC, 220-250 V DC, 220-250 V DC IC position of Article 2/26 to 2/31) ealing cap over OFF b	3WT8080-4 3WT8120-4 3WT8161-4 3WT8252-4 3WT8252-4 Article No. supple- ments	4003-00 100	Add price with X A2 with	ditional ce nout	36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8326-4 Article No. supple- ments	AA0	-0000 -000 -0000 -	Additional price without X without	49.0 49.0 51.0 72.0 72.0 76.0
(brepag)	aking ca aking ca e 2/32) 800 1250 2000 2500 3200 rating me filary swit to 11th p her option ual operatir mechanica r and closi t release "F out 2nd aux auxiliary sw her option door sealin door sealin chor sealin chor sealin	pacity S, guid 55 55 66 66 66 66 66 66 66 67 68 68 69 69 69 69 60 60 60 60 60 60 60 60 60 60	xiliary release, ticle No., 2/25) leases, IC 220-240 V AC 50/60 H 220-240 V AC 50/60 H 220-250 V DC, 220-240 V AC 50/60 H 220-250 V DC IC position of Article 2/26 to 2/31) saling cap over OFF b size I, up to 1600 A	3WT8060-4 3WT8120-4 3WT8161-4 3WT8202-4 3WT8252-4 3WT8322-4 Article No. supple- ments	AA0 UA3	Add price with X S2 with X	ditional ce nout	36.000 38.000 59.000 63.000	3WT8084-4 3WT8124-4 3WT8165-4 3WT8206-4 3WT8256-4 3WT8256-4 Article No. supple- ments	AA0	5AA2 5AB2	Additional price without X without X	49.0 49.0 51.0 72.0 72.0 76.0

"Air-Circuit Breakers", pages 2/25 to 2/36.

 Can be converted to vertical at top and horizontal main connection at bottom.

X = additional price

Non-automatic air circuit-breakers, 3- and 4-pole, fixed-mounted version

Size Rated current Short-circuit 3-pole 4-pole I_n I_{cc} /500 V Article No. A	Weigh approx
Current In breaking capacity In Article No. Article No. Article No. Article No. Article No. Article No. supplement (8th to 11th and 13th to 16th position of Article No.) must be added. Weight approx. Article No. Article No. For quick selection see below. Further options see pages 2/25 to 2/31. For quick selection see below. Further options see pages 2/25 to 2/31. For quick selection see below. Further options see pages 2/25 to 2/31. Fixed-mounted version, horizontal main circuit connection (breaking capacity S) 3WT8080-4000-0000 3WT8120-40000-0000 3WT8120-4000-0000 3WT8120-4000-0000 3WT8120-4000-0000 3WT8202-4000-0000 3WT8202-4000-0000 3WT8206-4000-000 3WT8206-4000-0000 3WT8206-4000-0000 3WT8206-40	Weigh
Image: Print of the second	approx
A kA For quick selection see below. Further options see pages 2/25 to 2/31. For quick selection see below. Further options see sufficiency options see below. Further options see below. Further options see set options see below. Further options see below. Further options see set options set options set options see set options set options set options set options set options set options set options set options set options set options set options set o	les les
A kA pages 2/25 to 2/31. kg pages 2/25 to 2/31. Fixed-mounted version, horizontal main circuit connection (breaking capacity S) 34.000 3WT8084-4000-0000 1 800 55 3WT8080-4000-0000 34.000 3WT8084-4000-0000 1 1250 55 3WT8120-4000-0000 34.000 3WT8124-4000-0000 1 1600 66 3WT8202-4000-0000 36.000 3WT8206-4000-0000 11 2000 66 3WT8202-4000-0000 57.000 3WT8206-4000-0000 11 2500 66 3WT8322-4000-0000 57.000 3WT8326-4000-0000 11 2500 66 3WT8322-4000-0000 57.000 3WT8326-4000-0000 11 3200 66 3WT8322-4000-0000 57.000 3WT8326-4000-0000 Fixed-mounted version, vertical main circuit connection (breaking capacity S) 11 4000 66 3WT8402-4002-0000 92.000 3WT8406-4002-0000 11 4000 66 3WT8402-4002-0000 92.000 3WT8406-4002-0000	
Fixed-mounted version, horizontal main circuit connection (breaking capacity S) 3WT8080-4 34.000 3WT8084-4 0-0 0 1 800 55 3WT8080-4 0-0 34.000 3WT8084-4 0-0 0 1 1250 55 3WT8120-4 0-0 34.000 3WT8124-4 0-0 0 1 1600 66 3WT8202-4 0-0 36.000 3WT8206-4 0-0 0 11 2000 66 3WT8202-4 0-0 57.000 3WT8206-4 0-0 0 11 2500 66 3WT8322-4 0-0 0 3WT8326-4 0-0 0 11 3200 66 3WT8322-4 0-0 0 3WT8326-4 0-0 0 11 3200 66 3WT8322-4 0-0 0 3WT8326-4 0-0 0 11 2000 66 3WT8402-4 0-0 0 3WT8406-4 0-0 0 11 4000 66	KÇ
I 800 55 3WT8080-4□□0-□□□ 34.000 3WT8084-4□□0-□□□ I 1250 55 3WT8120-4□□0-□□□ 34.000 3WT8124-4□□0-□□□ I 1600 66 3WT8161-4□□0-□□□ 36.000 3WT8165-4□□0-□□□ II 2000 66 3WT8202-4□□0-□□□ 57.000 3WT8206-4□□0-□□□ II 2500 66 3WT8252-4□□0-□□□ 57.000 3WT8326-4□□0-□□□ II 3200 66 3WT8322-4□□0-□□□ 61.000 3WT8326-4□□0-□□□ Fixed-mounted version, vertical main circuit connection (breaking capacity S) 3WT8402-4□□2-□□□ 92.000 3WT8406-4□□2-□□□ II 4000 66 3WT8402-4□□2-□□□ 92.000 3WT8406-4□□2-□□□	
1 1230 35 3WT810120-4110-1111 34.000 3WT8101-4110-1111 1 1600 66 3WT8101-4110-1111 36.000 3WT8105-4110-1111 11 2000 66 3WT8202-4110-1111 57.000 3WT8206-4110-1111 11 3200 66 3WT8222-4110-1111 57.000 3WT8266-4110-1111 11 3200 66 3WT8322-4110-1111 57.000 3WT8326-4110-1111 11 3200 66 3WT8322-4110-1111 61.000 3WT8326-4110-1111 11 4000 66 3WT8402-4112-1111 92.000 3WT8406-4112-1111 11 4000 66 3WT8402-4112-1111 92.000 3WT8406-4112-1111 0 0 66 3WT8402-41112-1111 92.000 3WT8406-41112-1111	47.000
II 2000 66 3WT8202-4□□0-□□□ 57.000 3WT8206-4□□0-□□□ II 2500 66 3WT8252-4□□0-□□□ 57.000 3WT8256-4□□0-□□□ II 3200 66 3WT8322-4□□0-□□□ 57.000 3WT8326-4□□0-□□□ Fixed-mounted version, vertical main circuit connection (breaking capacity S) swT8402-4□□2-□□□ 92.000 3WT8406-4□□2-□□□ II 4000 66 3WT8402-4□□2-□□□ 92.000 3WT8406-4□□2-□□□ Operating mechanism, auxiliary release, Article No. Additional Article No. Article No.	49.000
II 2500 66 3WT8252-4 57.000 3WT8256-4 0-0000 II 3200 66 3WT8322-4 61.000 3WT8326-4 0-0000 Fixed-mounted version, vertical main circuit connection (breaking capacity S) 3WT8402-4 92.000 3WT8406-4 2-0000 II 4000 66 3WT8402-4 92.000 3WT8406-4 2-0000 Operating mechanism, auxiliary release, Article No. Additional Article No. Article No. Article No.	70.000
Fixed-mounted version, vertical main circuit connection (breaking capacity S) II 4000 66 Operating mechanism, auxiliary release, Article No. Additional	70.000
II 4000 66 3WT8402-4□□2-□□□ 92.000 3WT8406-4□□2-□□□ Operating mechanism, auxiliary release, Article No. Additional Article No. Article No.	
Operating mechanism, auxiliary release, Article No. Article No. Article No.	106.000
auxiliary switch supple- ments price supple- ments	Additional price
Manual operating mechanism, AAO without AAO without stand 2nd auxiliary releases, with auxiliary switch 2 NO + 2 NC AAO	without
Motor operated mechanism, with mechanical and electrical closing, motor and closing solenoid 220-240 V AC 50/60 Hz, 220 250 V DC	x
Shunt release "F" 220-240 V DC, 2020 250 V DC, 2020 V DC, 202	
without 2nd auxiliary release, with auxiliary switch 2 NO + 2 NC	
Fixed-mounted version Accessories (13th to 16th position of Article No., further options see pages 2/26 to 2/31)	
with door sealing frame IP41 OAA2 without OAA2 w	without
Withdrawable version Accessories (13th to 16th position of Article No., further options see pages 2/26 to 2/31)	
with door sealing frame IP41 5AA2 without 5AA2 w	without
with door sealing frame IP41, sealing cap over OFF button, and shutter size I, up to 1600 A size II, 630 3800 A S	

"Options" and "Accessories" see "Options" and "Accessories" for "Air-Circuit Breakers", pages 2/25 to 2/36.

 \mathbf{X} = additional price

Options

2

Selection an	d ordering da	ta				
Design				Article No. supple	ement	Additional price
				9th to 11th position	on of Article No.	
				or circuit breaker (see pages 2/19	to 2/24)	
				must be added a	s listed below	
Opera <u>ting m</u>	echani <u>sm</u>			3110		
Manual operat	ing mechanism,			A		without
Vith mechanic Manual operat	al closing ing mechanism,	aloging				
Closing solenoi	id	closing				
AC 50/60 Hz V	DC V					
-	24			в		Х
110 127	110 125			Ę		X
20 240	220 230					^
Manual/motori	zed operating m	echanism, closing				
Aotor		Closing solenoid				
AC 50/60 Hz V	DC V	AC 50/60 Hz V DC V				
-	24	24 24		G		Х
10 127	110 125	110 127 220 240 220 250		К		X
10 127	220 200 110 125	220 240 220 200		0		A Y
220 240	220 250	24		ā		x
.20 240	220 250	110 127 110 125		Т		X
rst auxillary						without
Shunt release	"f" F1			A		without
AC 50/60 Hz V	DC V					
-	24			в		X
10 127	110 125			F		x
20 240	220 200			G		Λ
AC 50/60 Hz V	DC V					
	24			н		X
10 127	110 125			М		X
.20 240 380 415	250			P		X
Indervoltage	release "rc" F8,					
an be delayed	d between 0.2 an	d 3.2 s				
10 50/60 HZ V	110 125					x
220 240	220 250			v		X
380 415				W		X
Zind auxiliary Without 2nd av	release and a	with 1st auxiliary contact bloc	k (standard)		0	without
	annai y icicase	2 NO + 2 NC				withiOUL
Shunt release	"f" F2	with 1st auxiliary contact bloc	k (standard)			
AC 50/60 Hz V	DC V					
. <u>.</u> 110 127	24 110 125	2 NO + 2 NC 2 NO + 2 NC			1	X X
220 240	220 250	2 NO + 2 NC			3	Х
Vithout 2nd a	uxiliary release	with 1st and 2nd auxiliary contact block			4	x
Shunt release	"f" F2	with 1st and 2nd auxiliary contact block				
AC 50/60 Hz V	DC V					
-	24	2 NO + 2 NC + 2 CO			5	X
10 127 220 240	110 125 220 250	2 NO + 2 NC + 2 CO 2 NO + 2 NC + 2 CO			67	X X

X = additional price

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Options

Design		Article No.						Additional	price
		13th to 16th position	1 0	fА	٨rt	icle	e No.		
		of circuit breaker (se	(see pages 2/19 to 2/22)						
								3-pole	4-pole
For withdrawa	able circuit breakers without quide frame	3WT8							
	With door sealing frame IP41	Ę	5	A	A	2		without	without
- E	With door sealing frame IP41	Ę	5 /	A	E	2			
I	With safety lock device CES instead of OFF button ¹⁾							v	v
For withdrawa	able circuit breakers with guide frame							^	x
	With door sealing frame IP41	E	5	A	A	2		without	without
	With door sealing frame IP41, sealing cap over OFF button,	5	5 /	A	в	2			
	and shutter Sealing cap to prevent unauthorized opening, cannot be combined with safety lock								
Ύ▼-Ύ	With shutter								
	Size I, up to 1600 A Size II, 630 3800 A							X X	X X
	With door sealing frame IP41,	ŧ	5 /	A	С	2			
	and mutual mechanical interlock for 3WT circuit breaker								
	cannot be combined with safety lock								
	Interlock module with a Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.							x	x
	With door sealing frame IP41, sealing cap over OFF button.	5	5 /	A	D	2			
	mutual mechanical interlock for 3WT circuit breaker								
	Sealing cap to prevent unauthorized opening,								
	Interlock module with a Bowden wire (2 m); when interlocking three								
	circuit breakers an additional Bowden wire is required, see page 2/33. With shutter								
	Size I, up to 1600 A Size II, 630 3800 A							X X	X X
	With door sealing frame IP41	Ę	5 /	A	E	2			
	With safety lock device CES instead of OFF button ¹⁾ (key removable in OFF position)							x	x
	With door sealing frame IP41,	Ę	5 /	A	F	2			
	and shutter								
	With safety lock device CES instead of OFF button '7 (key removable in OFF position)								
	With shutter Size L up to 1600 A							x	x
	Size II, 630 3800 A							x	x
	With door sealing frame IP41 locking device,	Ę	5 /	A	G	2			
	blocking device and mutual mechanical interlock for 3WT circuit breaker								
	With safety lock device CES instead of OFF button ¹⁾ (key removable in OFF position)								
	Blocking device to prevent opening of the cabinet door								
	Interlock module with a Bowden wire (2 m); when interlocking three								
	circuit breakers an additional Bowden wire is required, see page 2/33.		_					x	Х
	With door sealing frame IP41 locking device,	ŧ	5 /	A	н	2			
	blocking device, mutual mechanical interlock for 3WT circuit breaker								
	and shutter With safety lock device CES instead of OFF button ¹⁾								
	(key removable in OFF position) Blocking device to prevent opening of the cabinet door								
	when the circuit breaker is in connected position								
	Interlock module with a Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.								
	With shutter Size L up to 1600 A							x	x
	Size II, 630 3800 A							x	x
¹⁾ This disables	mechanical or electrical ON commands. $X = ad$	ditional price							
 1.2.3	 r	1.61	r • 3						
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 			N 1						
 - C-1	 <u> </u>		-						

2

esign		Article No. supplement 13th to 16th position of Article No. of circuit breaker (see pages 2/19 to 3 must be added as listed below	Additiona	al price
		3WT8	3-pole	4-pole
or withdra	wable circuit breakers with guide frame With door sealing frame IP41	5 4 1 2		
	Iocking device and sealing cap over OFF button Locking device: mounting set for CASTELL lock ¹⁾ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2) Sealing cap to prevent unauthorized opening,			
	cannot be combined with safety lock	E A K D	X	X
	With door sealing frame IP41 locking device, sealing cap over OFF button, and shutter Locking device: mounting set for CASTELL lock ¹⁾ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2)	5 A K 2		
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock With shutter		v	v
	Size I, up to 1600 A Size II, 630 3800 A		X	X
	With door sealing frame IP41 locking device, blocking device, sealing cap over OFF button and mutual mechanical interlock for 3WT circuit breaker Locking device: mounting set for CASTELL lock ¹⁾ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2)	5 A L 2		
	Blocking device to prevent opening of the cabinet door when the circuit breaker is in connected position			
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock			
	circuit breakers an additional Bowden wire is required, see page 2/33.		x	х
	With door sealing frame IP41 locking device, blocking device, sealing cap over OFF button, mutual mechanical interlock for 3WT circuit breaker and shutter Locking device: mounting set for CASTELL lock ¹⁾ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2)	5 A M 2		
	Blocking device to prevent opening of the cabinet door when the circuit breaker is in connected position Sealing cap to prevent unauthorized opening,			
	Interlock module with a Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.			
	With shutter Size I, up to 1600 A Size II, 630 3800 A		x	X X
	With door sealing frame IP41, sealing cap over OFF button, 5-digit operating cycles counter and shutter Sealing cap to prevent unauthorized opening, cannot be combined with safety lock	5 A P 2		
	With shutter Size I, up to 1600 A Size II, 630 3800 A		X X	X X
	With door sealing frame IP41 blocking device, sealing cap over OFF button, 5-digit operating cycles counter and mutual mechanical interlock for 3WT circuit breaker Blocking device to prevent opening of the cabinet door when the circuit breaker is in connected position	5 A Q 2		
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock			
	circuit breakers an additional Bowden wire is required, see page 2/33.		X	х

¹⁾ Locks are available at the manufacturer of the locks or 3WT lock, interlock system 2 identical keys for 3 circuit breakers.

X = additional price



Options

2

Design		Article No. supplement 13th to 16th position of Article No. of circuit breaker (see pages 2/19 to 2/24) must be added as listed below.	Additional	price
		3WT8	3-pole	4-pole
For withdrawa	able circuit breakers with quide frame			
	With door sealing frame IP41	5 A R 2		
5	blocking device,			
mge -	sealing cap over OFF button,			
1	mutual mechanical interlock for 3WT circuit breaker,			
山。	and shutter			
ila l	when the circuit breaker is in connected position			
也一	Sealing cap to prevent unauthorized opening.			
	cannot be combined with safety lock			
6 6	Interlock module with a Bowden wire (2 m); when interlocking three			
\ \	circuit breakers an additional Bowden wire is required, see page 2/33.			
	With shutter Size Lup to 1600 A		x	x
	Size II, 630 3800 A		X	X
	With door sealing frame IP41	5 A S 2		
	locking device, sealing cap over OFF button			
	and 5-digit operating cycles counter			
	Locking device: mounting set for CASTELL lock ¹⁾ , Interlock to be			
	Seeling cap to provent upoutherized epopling			
	cannot be combined with safety lock		х	х
	With door sealing frame IP41	5 A T 2		
	locking device,			
	5-digit operating cycles counter			
	and shutter			
	obtained from the manufacturer of the locks CASTELL lock (FS 2)			
	Sealing cap to prevent unauthorized opening.			
	cannot be combined with safety lock			
	With shutter		v	v
	Size II, 630 3800 A		x	Â
	With door sealing frame IP41	5 A U 2		
	locking device,			
	sealing cap over OFF button,			
	5-digit operating cycles counter			
	Locking device: mounting set for CASTELL lock ¹ , Interlock to be			
	obtained from the manufacturer of the locks CASTELL lock (FS 2)			
	Blocking device to prevent opening of the cabinet door			
	Seeling cap to provent upouthorized expering			
	cannot be combined with safety lock			
	Interlock module with a Bowden wire (2 m); when interlocking three			
	circuit breakers an additional Bowden wire is required, see page 2/33.		X	X
	locking device.	5 A V 2		
	blocking device,			
	sealing cap over OFF button, 5-digit operating cycles counter			
	mutual mechanical interlock for 3WT circuit breaker			
	and shutter			
	obtained from the manufacturer of the locks CASTELL lock (FS 2)			
	Blocking device to prevent opening of the cabinet door			
	when the circuit breaker is in connected position			
	sealing cap to prevent unauthorized opening, cannot be combined with safety lock			
	Interlock module with a Bowden wire (2 m); when interlocking three			
	circuit breakers an additional Bowden wire is required, see page 2/33.			
	With shutter		v	v
	Size I, up to 1000 A Size II, 630 3800 A		X	x
1) Looko ere	ilable at the manufactures of the locks or QMT lock, interview			

 Locks are available at the manufacturer of the locks or 3WT lock, interlock system 2 identical keys for 3 circuit breakers.

X = additional price

		0	n	0
U	Ρ	U		ອ

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esign	ign		Article No.					
		13th to 16th posi	tion	of /	Art	icle No.		
		must be added a	s (<mark>se</mark> e s lis	e p tec	ag 1 b	elow)	
		0W/T0					3-pole	4-pole
or withdra	wable circuit breakers with quide frame	30010						
5	With door interlock		5	A	w	2	x	x
je i	With door interlock and shutter		5	A	Х	2		
	With shutter Size I, up to 1600 A Size II, 630 3800 A						x x	x x
	With door interlock, locking device, sealing cap over OFF button, position indicator switch and shutter Locking device: mounting set for CASTELL lock ¹⁾ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2)		5	A	Y	2		
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock							
	With shutter Size I, up to 1600 A Size II, 630 3800 A						x x	X X
	With door interlock, sealing cap over OFF button, position indicator switch, 5-digit operating cycles counter and shutter		5	в	A	2		
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock							
	With shutter Size I, up to 1600 A Size II, 630 3800 A						X X	X X
	With door interlock, locking device, sealing cap over OFF button, position indicator switch, 5-digit operating cycles counter and shutter Locking device: mounting set for CASTELL lock ¹ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2)		5	в	в	2		
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock							
	With shutter Size I, up to 1600 A Size II, 630 3800 A						X X	X X
	With door interlock, sealing cap over OFF button, position indicator switch and shutter		5	в	С	2		
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock							
	With shutter Size I, up to 1600 A Size II, 620 - 2800 A						X	x

 Locks are available at the manufacturer of the locks or 3WT lock, interlock system 2 identical keys for 3 circuit breakers.

X = additional price

Options

Design		Article No. supplement 13th to 16th position of circuit breaker (s must be added as l	n c ee	of A	Art ag	icle es	e No. 2/19 to 2/24)	Additional price		
		3WT8[I	3-pole	4-pole	
For fixed-mo	unted circuit breakers									
	With door sealing frame IP41		0	A	A	2		without	without	
	With door sealing frame IP41 and locking device With safety lock device CES instead of OFF button ¹⁾ (key removable in OFF position)		0	A	В	2		x	x	
	With door sealing frame IP41, sealing cap over OFF button and mutual mechanical interlock for 3WT circuit breaker, sealing cap to prevent unautorized opening, cannot be combined with safety lock Interlock module with a Bowden wire (2 m); when interlocking three		0	A	С	2				
<u>\</u>	circuit breakers an additional Bowden wire is required, see page 2/33.							Х	Х	
Ι	With door sealing frame IP41, locking device, and mutual mechanical interlock for 3WT circuit breaker With safety lock device CES instead of OFF button ¹⁾ (key removable in OFF position) Interlock module with a Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.		0	A	D	2		x	x	
	With door sealing frame IP41, sealing cap over OFF button, blocking device, and mutual mechanical interlock for 3WT circuit breaker Sealing cap to prevent unauthorized opening, cannot be combined with safety lock		0	A	E	2				
	Blocking device to prevent opening of the cabinet door with the circuit breaker closed									
	circuit breakers an additional Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.							x	х	
	With door sealing frame IP41, locking device, and mutual mechanical interlock for 3WT circuit breaker With safety lock device CES instead of OFF button ¹⁾ (key removable in OFF position) Blocking device to prevent opening of the cabinet door with the circuit breaker closed Interlock module with a Bowden wire (2 m); when interlocking three		0	Α	F	2				
	circuit breakers an additional Bowden wire is required, see page 2/33.							х	Х	
	With door sealing frame IP41, locking device, and sealing cap over OFF button Locking device: mounting set for CASTELL lock ²⁾ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2)		0	A	G	2				
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock							x	х	
	With door sealing frame IP41, 5-digit operating cycles counter, locking device, sealing cap over OFF button, blocking device, and mutual mechanical interlock for 3WT circuit breaker Locking device: mounting set for CASTELL lock ² , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2) Sealing cap to prevent unauthorized opening		0	A	Η	2				
	cannot be combined with safety lock									
	Blocking device to prevent opening of the cabinet door with the circuit breaker closed									
	Interlock module with a Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.							x	x	
	With door sealing frame IP41, 5-digit operating cycles counter, sealing cap over OFF button, and mutual mechanical interlock for 3WT circuit breaker Sealing cap to prevent unauthorized opening, cannot be combined with safety lock		0	A	J	2				
	Interlock module with a Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.							х	x	
\mathbf{X} = additional p ¹⁾ This disables	rice ²⁾ Loc mechanical or electrical ON commands. syst	ks are available at the em 2 identical keys fo	e n or	na 3 d	nu cire	fac cui	turer of the lo t breakers.	cks or 3WT	lock, interlock	

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	-				
•	0)		\mathbf{n}	m	9
-	2	-	-		-

Design		Article No. supplement	Additic	nal price
		13th to 16th position of Article No. of circuit breaker (see pages 2/19 to 2/24 must be added as listed below	.)	
			3-pole	4-pole
For fixed-m	ounted circuit breakers	SW10		
	With door sealing frame IP41, 5-digit operating cycles counter, sealing cap over OFF button, blocking device, and mutual mechanical interlock for 3WT circuit breaker Sealing cap to prevent unauthorized opening, cannot be combined with safety lock	0 A K 2		
I	Blocking device to prevent opening of the cabinet door with the circuit breaker closed			
	Interlock module with a Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.		x	x
	With door sealing frame IP41, 5-digit operating cycles counter, locking device, and sealing cap over OFF button Locking device: mounting set for CASTELL lock ²⁾ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2)	0 A L 2		
	Sealing cap to prevent unauthorized opening, cannot be combined with safety lock		x	x
	With door sealing frame IP41, 5-digit operating cycles counter, locking device, sealing cap over OFF button, blocking device, and mutual mechanical interlock for 3WT circuit breaker With safety lock device CES instead of OFF button ¹⁾ (key removable in OFF position)	0 A M 2		
	Locking device: mounting set for CASTELL lock ²⁾ , Interlock to be obtained from the manufacturer of the locks CASTELL lock (FS 2)			
	Blocking device to prevent opening of the cabinet door with the circuit breaker closed			
	Interlock module with a Bowden wire (2 m); when interlocking three circuit breakers an additional Bowden wire is required, see page 2/33.		x	x
	With 5-digit operating cycles counter	0 A N 2	X	X
	With door interlock	0 A P 2	Х	Х

This disables me al or electrical ON commands. X = additional price

²⁾ Locks are available at the manufacturer of the locks or 3WT lock, interlock system 2 identical keys for 3 circuit breakers.

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	0.10	for '	2 oiro	uit brog		ro				

Add "-Z" to complete Article No. and indicate the appropriate order cod	3V	VТ.	Z □ ++		
Rated operating voltage <i>U</i> e ¹⁾					
Conditions	Size	Rated current In			
Rated operating voltage $U_{\rm e}$ 690 V AC with $I_{\rm CS}$, $I_{\rm CU}$, $I_{\rm CW}$ = 50 kA, only for S class	I and II	Up to 3200 A	Α	0	4
Rated operating voltage $U_{\rm e}$ 690 V AC with $I_{\rm CS}$, $I_{\rm CU}$, $I_{\rm CW}$ = 66 kA, only for S class	II	Up to 2500 A	Α	0	8
Auxiliary contact block ²⁾					
Conditions	Size	Rated current In			
1 st and 2 nd auxiliary contact block with 4 NO + 4 NC	I and II	Up to 4000 A	Α	0	1
1 st and 2 nd auxiliary contact block with 5 NO + 3 NC	I and II	Up to 4000 A	Α	1	1
1 st and 2 nd auxiliary contact block with 6 NO + 2 NC	I and II	Up to 4000 A	Α	2	1
Phase barrier					
Conditions	Size	Rated current In			
3- or 4-pole	I and II	Up to 4000 A	Α	3	0
Automatic mechanical resetting device					
Conditions	Size	Rated current In			
Automatic mechanical resetting device after overcurrent tripping	I and II	Up to 4000 A	Κ	0	1
Arc chute cover					
Conditions	Size	Rated current In			
For guide frames of withdrawable breaker	I and II	Up to 4000 A	R	1	0
Communication NEW					
Conditions	Size	ETU			
COM16WT – Modbus RTU, incl. BSSWT	I and II	ETU45/47WT	F	1	2
Meterings NEW					
Conditions	Size	ETU			
Metering with internal voltage tap on the lower main contacts	I and II	ETU45/47WT	F	0	5
¹⁾ Standard rated operating voltage $U_{\rm e}$ is 500 V AC.	²⁾ Only poss	ible together with th	e 1s	t a	uxiliary contact block. 11th digit of the

article number needs 0 - 3.



Accessories/spare parts

Selection and ordering data

0:	Detect	0				1					
Size	Rated	з-роге			4	i-pole					
	current In	Article No.	Pr	ice We	ight A	Article No.	Price	Weight			
				app	rox.			approx.			
	A				kg			kg			
Guide fi	rame for withdrawable version, horizontal n	nain circuit conneo	ction, 2 a	uxiliary su	oply	connectors					
1	400 1250 N, S class,; 1600 N class	3WT9883-2AC10		22.	000 3	3WT9883-2AC30		27.000			
1	1600 S class	3WT9883-4AC10		23.	000 3	3WT9883-4AC30		28.000			
11	630 2500	3WT9883-6AC10		37.	000 3	3WT9883-6AC30		48.000			
11	3200	3WT9883-7AC10		37.	000 3	3WT9883-7AC30		48.000			
Guide frame for withdrawable version, horizontal main circuit connection at top, vertical connection at bottom,											
2 auxilia	ary supply connectors			-							
1	400 1250 N, Sclass,; 1600 N class	3WT9883-2BC10		22.	000 3	3WT9883-2BC30		27.000			
1	1600 S class	3WT9883-4BC10		23.	000 3	3WT9883-4BC30		28.000			
11	630 2500	3WT9883-6BC10		37.	000 3	3WT9883-6BC30		48.000			
11	3200	3WT9883-7BC10		37.	000 3	3WT9883-7BC30		48.000			
Guide fi	rame for withdrawable version, vertical mai	n circuit connectio	on at top	and botton	n,						
2 auxilia	ary supply connectors										
1	400 1250 N, Sclass,; 1600 N class	3WT9883-2BC20		22.	000 3	3WT9883-2BC40		27.000			
1	1600 S class	3WT9883-4BC20		23.	000 3	3WT9883-4BC40		28.000			
11	630 2500	3WT9883-6BC20		37.	000 3	3WT9883-6BC40		48.000			
11	3200	3WT9883-7BC20		37.	000 3	3WT9883-7BC40		48.000			
11	3800	3WT9883-8BC20		37.	000 3	3WT9883-8BC40		48.000			
For fixe	d-mounted and withdrawable circuit breake	ers									
Current t	ransformers for neutral conductor overload prote	ction and ground-fau	ult protecti	on							
Only one	of the two measuring methods is permissible in conju	unction with the electro	onic trip uni	it. The overloa	ad pro	otection for the neutral	conductor	takes effect			
when the	current transformer is fitted in the neutral conductor.	The ground-fault curre	ent is calcu	lated by mea	ans of	summation current for	mation of t	he phases			
and the n	eutral conductor.										
Type of d	etection (see page 2/7)	Frame size of th	e	Required	For 1 set or 1 unit						
Designati	on	circuit breaker		order	Article	e No.	Price	Weight			
				quantity				approx			

		per circuit breaker		appiox.
				kg
Vectorial summation with current transformer in the new	eutral conductor			
Current transformers for 3-pole circuit breakers, external neutral conductor with copper busbars	 	1 unit 1 unit	3WL9111-0AA31-0AA0 3WL9111-0AA32-0AA0	1.600 4.260
Current transformers for 3-pole circuit breakers, external neutral conductor without copper busbars	 	1 unit 1 unit	3WL9111-0AA21-0AA0 3WL9111-0AA22-0AA0	0.321 0.490
Designation	Rated control supply voltage/ rated operational voltage	Order quantity	For 1 set or 1 unit	
	AC 50/60 Hz			
Commissioning and service tools				
Manual function tester for electronic trip unit for versions ETU35WT ETU47WT	110 127/220 240 V	1 unit	3WL9111-0AT32-0AA0	1.810
For fixed-mounted circuit breakers				
Door sealing frame IP41		1 unit	3WT9886-0JA00	1.000
Protective covers, IP55 Cannot be used in conjunction with door sealing frames, cover removable and can be opened on both sides		1 unit	3WL9111-0AP02-0AA0	2.400

Accessories/spare parts

	Designation					Required	For 1 set or 1 unit		
	Designation					order quantity per circuit breaker	Article No.	Price	Weight approx.
	For fixed-mounted	and withdr	awahla oira	uit brookore					kg
	5-digit operating cycle	es counter	awable circ	uit breakers		1 unit	3WT9864-0CA00		0.500
00035	Auxiliary release			Rated control	supply voltage	i unit	0113004 00400		0.000
	,			AC 50/60 Hz V	DC V				
	Shunt release "f" for 1st and 2nd auxiliary re and closing solenoid (\	elease (F1 and (1)	1 F2)	 110 127 220 240	24 110 125 220 250	1 unit 1 unit 1 unit	3WT9851-1JB00 3WT9851-1JH00 3WT9851-1JK00		0.800 0.800 0.800
	Undervoltage release " instantaneous 0 ms, sh	r" (F3) nort-delay 200	ms	 110 127 220 240 280 415	24 110 125 220 250	1 unit 1 unit 1 unit	3WT9853-1JB00 3WT9853-1JH00 3WT9853-1JK00 2WT9853-1JK00		0.800 0.800 0.800
	Undervoltage release " can be delayed 0.2 ;	rc" (F8) 3.2 s		110 127 220 240	 110 125 220 250	1 unit 1 unit 1 unit	3WT9853-1JH00 3WT9854-1JH00 3WT9854-1JK00		0.850
	Undervoltage release " can be delayed 0.2	rc" (F8) 3.2 s		110 127 220 240	 110 125 220 250	1 unit 1 unit	3WT9855-1JH00 3WT9855-1JK00 3WT9855-1JK00		0.843
	Auxiliary switches	e 2 <u>NEW</u> 2nd auxiliary	contact block	380 415	 he 1st auxiliary	1 unit contact block	3W19855-1JM00		0.772
	2 CO 2 CO for ETU45/47WT 2 NC and 2 NO 3 NO and 1 NC 4 NO	release 2 NE	W		,	1 unit 1 unit 1 unit 1 unit 1 unit	3WT9816-1CE00 3WT9888-1CH00 3WT9816-1CD00 3WT9816-1CF00 3WT9816-1CG00		0.070 0.068 0.180 0.170 0.170
	Motorized operating mechanism and electrical closing	Consisting of Rated contro Motor	motor and cl supply volta	osing solenoid ge Closing solen	(Y1) oid				
	9th position of Article No. for	AC 50/60 Hz V	DC V	AC 50/60 Hz V	DC V				
	Article No. for circuit breaker is "A")	110 127 220 240	110 125 220 250	110 127 220 240	110 125 220 250	1 unit 1 unit	3WT9831-1JH00 3WT9831-1JK00		2.400 2.400
	Motorized operating mechanism	Consisting of Rated contro	motor and w	iring ae of motor					
		AC 50/60 Hz V		DC V					
		 110 127 220 240		24 110 125 220 250		1 unit 1 unit 1 unit	3WT9832-1JB00 3WT9832-1JH00 3WT9832-1JK00		1.600 1.600 1.686
	Electrical closing (possible if 9th position of Article No. for	Consisting of electrical ON Rated contro AC 50/60 Hz	closing soler button and w supply volta	noid (Y1), viring ge of closing so DC	blenoid (Y1)				
	circuit breaker is "A"	V		V					
		 110 127 220 240		24 110 125 220 250		1 unit 1 unit 1 unit	3WT9833-1JB00 3WT9833-1JH00 3WT9833-1JK00		0.800 0.800 0.800
Ø Ø	Mutual mechanical interlock for 3WT circuit breaker	An interlock r for one fixed- for one withd	module with a mounted circ rawable circu	Bowden wire (uit breaker it breaker	2 m)	1 unit 1 unit	3WT9866-3JA00 3WT9866-4JA00		3.000 1.000
<u> </u>	Circuit breaker	Interlocking of additional Bo Bowden wire	of three circuit wden wire ree (2 m)	t breakers quired for each	circuit breaker	1 unit	3WT9866-8JA00		0.200
		Bowden wire Bowden wire	(3 m) (4.5 m)			1 unit 1 unit	3WT9866-8JA01 3WT9866-8JA02		0.500 2.500
	Interlocking systems	 3WT locks 2 of the sar Locking de Lock in the A maximum Preparation 	ne keys for 3 vice in OFF p operator pan n of 2 circuit b n for CASTELL	circuit breakers osition el yreakers can sw _ lock is necess	1 unit	3WT9863-7JE00		0.360	
	Locking device	Safety lock (3	3SB1) instead	Made by CES	SSG 10	1 unit	3WT9863-1JA00		0.120
mer 1	locks or padlocks to prevent unauthorized closing	Mounting set lock ²⁾	¹⁾ for 3WT loc	k ³⁾ , CASTELL	or FORTRESS	1 unit	3WT9863-6JE00		0.100
	of the circuit breaker	Interlock to b CASTELL loc (H31LH/65°/s	e obtained fro k (FS 2) or FC standard)	om the lock mai DRTRESS lock	nufacturer				



⁴⁾ Directly in the circuit breaker order or as an accessory 3WT9863-6JE00.

²⁾ Locks are available at the manufacturer of the locks.



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Accessories/spare parts

	Designation/	Rated current In	Size	Number of	Required	For 1 set or 1 unit		
	for circuit breaker Type			poles	order quan- tity per cir- cuit breaker	Article No.	Price	Weigh approx
I	For fixed-mounted a	nd withdrawable circuit h	reakers					kį
	Crank handle		Teakero					
	For withdrawable circuit breaker				1 unit	3WT9884-0JA00		0.500
	Electronic trip unit							
	ETU35WT, LSI with displa	ау			1 unit	3WT9841-4AA00		1.200
	ETU37WT, LSING with dis	splay			1 unit	3WT9841-5AB00		1.00
	ETU45WT, LSIN with disp	nay			1 unit	3WT9841-6AC00		1.20
	ETU45WT, LSIN with disc	blay, release 2 with communica	tion capability	NEW	1 unit	3WT9841-6AC02		0.31
	ETU47WT, LSING with dis	splay, release 2 with communic	ation capabili	ty NEW	1 unit	3WT9841-7AD02		0.31
	ETU45WT, LSIN with disp	olay, release 2 with communica	tion capability		1 unit	3WT9841-6AC22		0.40
	and metering NEW ETU47WT, LSING with dis	splay, release 2 with communic	ation capabili	ty	1 unit	3WT9841-7AD22		0.404
	and metering NEW		•					
	Phase barrier			0	1	0WT0004 04 400		0.051
	For fixed-mounted circuit		I	3-pole 4-pole	1 unit 1 unit	3WT9831-0AA00 3WT9831-0AC00		1.130
			II	3-pole	1 unit	3WT9831-0AE00		0.900
	—			4-pole	1 unit	3WT9831-0AG00		1.050
	circuit breaker		I	3-pole 4-pole	1 unit 1 unit	3WT9831-0AB00 3WT9831-0AD00		1.250
			П	3-pole	1 unit	3WT9831-0AF00		1.050
1				4-pole	1 unit	3WT9831-0AJ00		1.280
	Communication and	meterings <u>NEW</u>						
	Broaker etaille concor / B	SS(MT) for ETLIA5/A7(MT release	202		1 unit	31// T08///-0// T00		0.053
	Communication module (SSWT) , for ETU45/47WT relea: COM16WT MODBUS BTU, for I	se 2 ETU45/47WT i	release 2	1 unit 1 unit	3WT9844-0AT00 3WT9844-1AT00		0.053
	Communication module (Internal voltage converte	SSWT) , for ETU45/47WT relea: COM16WT MODBUS RTU, for r, for ETU45/47WT release 2	se 2 ETU45/47WT i	release 2	1 unit 1 unit 1 unit	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00		0.053 0.146 0.061
	Communication module (Internal voltage converte Metering module, for ETL	SSWT) , for ETU45/47WT relea: COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2	se 2 ETU45/47WT i	release 2	1 unit 1 unit 1 unit 1 unit	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00		0.053 0.146 0.061 0.095
	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO	SSWT), for ETU45/47WT releas COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted	se 2 ETU45/47WT i	release 2	1 unit 1 unit 1 unit 1 unit 1 unit	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00		0.053 0.146 0.061 0.095 0.202
i	Communication module (Internal voltage converte Metering module, for ETU Mounting adapter for CO Mounting adapter for CO	SSWT), for ETU45/47WT releas COM16WT MODBUS RTU, for I r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out	se 2 ETU45/47WT i	release 2	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9844-3AT00		0.053 0.146 0.061 0.095 0.202 0.196
	Communication module (Internal voltage converte Metering module, for ETU Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars	SSWT), for ETU45/47WT release COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N,	se 2 ETU45/47WT I	release 2 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9844-3AT00 3WT9821-7AC00		0.053 0.146 0.061 0.095 0.202 0.196 2.000
	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection	SSWT), for ETU45/47WT release COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class	se 2 ETU45/47WT 1	release 2 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9844-3AT00 3WT9821-7AC00		0.053 0.146 0.061 0.095 0.202 0.196 2.000
	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection	SSWT), for ETU45/47WT release COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A	se 2 ETU45/47WT 1 I	release 2 3- and 4-pole 3- and 4-pole 3-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9844-3AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7BC00		0.053 0.146 0.061 0.095 0.202 0.196 2.000 4.100
	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A	se 2 ETU45/47WT 1 I I	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9844-3AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DA00 3WT9821-7DB00		0.053 0.146 0.061 0.095 0.202 0.196 2.000 4.100 5.500 7.400
	Breaker status sensor (B) Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection	SSWT) , for ETU45/47WT release COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A	se 2 ETU45/47WT 1 I II II	a and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 set ¹⁾ 1 set ²⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DA00 3WT9821-7DA00 3WT9821-7FB00		0.053 0.146 0.061 0.095 0.202 0.196 2.000 4.100 5.500 7.400 4.800 6.500
	Connecting bars for front-accessible	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class	se 2 ETU45/47WT 1 I II II	a and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ¹⁾ 1 set ¹⁾ 1 set ²⁾ 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DB00 3WT9821-7DB00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-7FB00		0.053 0.146 0.095 0.202 0.196 2.000 4.100 5.500 7.400 4.800 6.500
148	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection	SSWT) , for ETU45/47WT release COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class	se 2 ETU45/47WT 1 I II II	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 set ²⁾ 1 set ²⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7AC00 3WT9821-7DA00 3WT9821-7DA00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-1AA01 3WT9821-1BA01		0.053 0.146 0.06 0.202 0.196 2.000 4.100 5.500 7.400 4.800 6.500 0.980 2.060
E0_01148	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection	SSWT) , for ETU45/47WT release COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A	se 2 ETU45/47WT 1 1 1 11 1 1	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³ 1 unit ³ 1 set ¹) 1 set ²) 1 set ²) 1 set ²) 1 unit ³ 1 unit ³ 1 set ¹ 1 set ² 1 unit ³ 1 unit ³	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7AC00 3WT9821-7DA00 3WT9821-7DA00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-1AA01 3WT9821-1BA01 3WT9821-1DA01		0.053 0.146 0.095 0.202 0.196 2.000 4.100 5.500 7.400 4.800 6.500 0.980 2.060 2.530
	Connecting bars for front-accessible connection Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A	se 2 ETU45/47WT 1 I II II II II II	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 set ¹⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-1AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7BC00 3WT9821-7B00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-1BA01 3WT9821-1BA01 3WT9821-1FA01		0.05: 0.14(0.06 0.202 0.19(2.000 4.100 5.500 7.400 4.800 6.500 0.980 2.060 2.500 2.500
NOEU_UT148	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection Connecting bars for front-accessible connection Vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A	se 2 ETU45/47WT 1 I II II II II	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DB00 3WT9821-7DB00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-1AA01 3WT9821-1BA01 3WT9821-1BA01 3WT9821-1FA01 3WT9825-1JC00		0.053 0.146 0.095 0.202 0.196 2.000 4.100 5.500 7.400 4.800 0.980 2.060 2.530 2.500 0.080
NSE0_01148	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection Connecting bars for front-accessible connection Vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors Blocking device	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A	se 2 ETU45/47WT 1 I II II II II Dinet door t breaker clos	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ¹⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DB00 3WT9821-7DB00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9825-1JC00 3WT9867-2JA00		0.053 0.146 0.095 0.202 0.196 2.000 4.100 5.500 7.400 4.800 6.500 0.980 2.060 2.530 2.500 0.080
NSE0_01148	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection Connection bars for front-accessible connection Vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors Blocking device Conversion set from fixed-mounted to	SSWT) , for ETU45/47WT release COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A to prevent opening of the cat with the fixed-mounted circui up to 1600 A	se 2 ETU45/47WT n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 set ²⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit 1 unit 1 unit 1 unit	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DB00 3WT9821-7DB00 3WT9821-7FA00 3WT9821-7FA00 3WT9821-1BA01 3WT9821-1BA01 3WT9821-1BA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9825-1JC00 3WT9888-0GA00 3WT9888-0GA00		0.053 0.146 0.095 0.202 0.196 2.000 4.100 5.500 7.400 6.500 0.980 2.060 2.530 2.500 0.980 0.980 0.700 3.500
NSE0_01148	Connecting bars for front-accessible connection Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection Connection Vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors Blocking device Conversion set from fixed-mounted to withdrawable version	SSWT) , for ETU45/47WT release COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A to prevent opening of the cat with the fixed-mounted circui up to 1600 A up to 3200 A	se 2 ETU45/47WT 1 I II II II II Ii Ii Ii Ii Ii Ii Ii Ii I	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DB00 3WT9821-7DB00 3WT9821-7FB00 3WT9821-1FA01 3WT9821-1BA01 3WT9821-1BA01 3WT9821-1FA01 3WT9883-0FA00 3WT9888-0FA00 3WT9888-0FA00		0.053 0.14(0.06) 0.202 0.19(2.000 4.100 5.500 7.400 4.800 6.500 0.980 2.060 2.530 2.500 0.080 0.700 3.500 5.000
NSE0_01148	Communication module (Internal voltage converte Metering module, for ETL Mounting adapter for CO Mounting adapter for CO For fixed-mounted c Connecting bars for vertical connection Connecting bars for front-accessible connection Vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors Blocking device Conversion set from fixed-mounted to withdrawable version = single operating mechanism	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for l r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A to prevent opening of the cat with the fixed-mounted circui up to 1600 A up to 3200 A	se 2 ETU45/47WT 1 I I II II II Dinet door t breaker clos I	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- pole 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DA00 3WT9821-7DB00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-1FA01 3WT9883-01A00 3WT9888-01A00 3WT9888-01A00		0.053 0.146 0.093 0.202 0.196 2.000 4.100 5.500 7.400 4.800 6.500 0.986 2.500 0.986 2.500 0.086 0.700 3.500 3.500 5.000 4.200
NSE0_01148	Connecting bars for front-accessible connection vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors Blocking device Conversion set from fixed-mounted to withdrawable version = single operating mechanism For guide frames Connection bar for addition connectors	SSWT) , for ETU45/47WT release COM16WT MODBUS RTU, for I r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A to prevent opening of the cat with the fixed-mounted circui up to 1600 A up to 3200 A	se 2 ETU45/47WT 1 I II II II II II II II II II II II	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit 1	3WT9844-0AT00 3WT9844-1AT00 3WT9844-4AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7BC00 3WT9821-7B00 3WT9821-7FB00 3WT9821-1FA01 3WT9821-1BA01 3WT9821-1BA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A00 3WT9888-0GA00 3WT9888-0LA00 3WT9888-0LA00		0.053 0.14(0.06) 0.202 0.19(2.000 4.100 5.500 7.400 4.800 6.500 0.980 2.060 2.530 2.500 0.080 0.700 3.500 3.500 4.200
NSE0_01148	Connecting bars for front-accessible connection Multiary supply connectors Blocking device Conversion set from fixed-mounted to withdrawable version = single operating mechanism Connecting bars for front-accessible connection Vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors Blocking device Conversion set from fixed-mounted to withdrawable version = single operating mechanism	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for I r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A to prevent opening of the cat with the fixed-mounted circui up to 1250 A up to 1250 A N, S class; 1600 A up to 3200 A	se 2 ETU45/47WT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 4-pole 3- pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 set ¹⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit 1 unit	3WT9844-0AT00 3WT9844-1AT00 3WT9844-1AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7BC00 3WT9821-7DB00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-1FA01 3WT9821-1BA01 3WT9821-1BA01 3WT9821-1BA01 3WT9821-1DA01 3WT9821-1DA01 3WT9821-1DA01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9821-1A01 3WT9883-0A00 3WT9888-0A00 3WT9888-0A00 3WT9883-0A00		0.053 0.146 0.095 0.202 0.196 2.000 4.100 5.500 7.400 4.800 6.500 0.986 2.530 2.550 0.086 0.700 3.500 3.500 4.200
NSE0_01148	Connecting bars for for vertical connection Vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors Blocking device Conversion set from fixed-mounted to withdrawable version = single operating mechanism For guide frames Connecting bar for additional terminal acces- sible from the front Vertical double-hole bar (holes to DIN 43673)	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for I r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A to prevent opening of the cat with the fixed-mounted circui up to 1250 A up to 1250 A N, S class; 1600 A up to 3200 A - up to 1250 A up to 1250 A N, S class; 1600 A N class 1600 A S class	se 2 ETU45/47WT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 4-pole 3- pole 4-pole 3- and 4-pole 3- and 4-pole 3- pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 set ¹⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit 1	3WT9844-0AT00 3WT9844-1AT00 3WT9844-AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7DA00 3WT9821-7DB00 3WT9821-7FB00 3WT9821-7FB00 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9823-1JC00 3WT9888-0GA00 3WT9888-0HA00 3WT9888-0LA00 3WT9883-1FA01 3WT9823-1A01 3WT9823-1BA01		0.053 0.146 0.095 0.202 0.196 2.000 4.100 5.500 7.400 4.800 6.500 0.980 2.060 2.500 0.980 2.500 0.080 0.700 3.500 3.500 4.200 1.300 1.800
NSE0_01148	Connecting bars for front-accessible connection bars for front-accessible connection for vertical connection Connecting bars for front-accessible connection Vertical double-hole bar (holes to DIN 43673) Auxiliary supply connectors Blocking device Conversion set from fixed-mounted to withdrawable version = single operating mechanism For guide frames Connecting bar for additional terminal accessible from the front Vertical double-hole bar (holes to DIN 43673)	SSWT) , for ETU45/47WT releas COM16WT MODBUS RTU, for I r, for ETU45/47WT release 2 J45/47WT release 2 M16WT fix-mounted M16WT draw-out ircuit breakers up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A, S class 630 A and 2500 A 3200 A up to 1250 A up to 1250 A N, S class; 1600 A, N class 1600 A S class 630 A and 2500 A 3200 A to prevent opening of the cat with the fixed-mounted circui up to 1250 A up to 1250 A N, S class; 1600 A N class 1600 A S class 630 A and 2500 A up to 1250 A up to 1250 A N, S class; 1600 A N class 1600 A S class 630 A and 2500 A	se 2 ETU45/47WT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	release 2 3- and 4-pole 3- and 4-pole 3-pole 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- and 4-pole 3- pole 4-pole 3- and 4-pole 3-pole 4-pole 3- and 4-pole 3- and 4-pole	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 set ¹⁾ 1 set ²⁾ 1 unit ³⁾ 1 unit 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit ³⁾ 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit ³⁾ 1 unit ³⁾	3WT9844-0AT00 3WT9844-1AT00 3WT9844-1AT00 3WT9844-5AT00 3WT9844-2AT00 3WT9821-7AC00 3WT9821-7BC00 3WT9821-7BC00 3WT9821-7DA00 3WT9821-7DA00 3WT9821-7FB00 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9821-1FA01 3WT9823-1A00 3WT9888-0GA00 3WT9888-0GA00 3WT9888-0LA00 3WT9883-1FA01 3WT9823-1A01 3WT9823-1BA01 3WT9823-1BA01 3WT9823-1BA01 3WT9823-1BA01 3WT9823-1BA01 3WT9823-1BA01 3WT9823-1BA01		0.05: 0.14(0.06: 0.202 0.19(2.000 4.100 5.500 7.400 4.800 2.530 2.500 0.980 2.530 2.530 2.500 0.980 2.530 2.530 0.980 2.530 2.530 0.980 2.530 2.500 0.700 3.500 3.500 3.500 4.200 1.300 4.200

¹⁾ 1 set = 3 units. ²⁾ 1 set = 4 units.



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Accessories/spare parts

Designation/	Rated current In	Size	Numbers of	Required	For 1 set or 1 unit	
for circuit breaker Type			poles	order quantity per circuit breaker	Article No. Price	Weigl appro:
For guide from a						k
For guide trames		1	0 14 1	4 ::3)		1 50
Connecting bar for rear vertical connection	up to 1250 A up to 1250 A N, S class; 1600 A N class		3- and 4-pole	1 unit ^o	3W19823-3AA00	1.50
	1600 A S class	1	3- and 4-pole	1 unit ³	3W19823-3BA00	1.500
	630 A and 2500 A		3-pole 4-pole	1 set ¹⁾ 1 set ²⁾	3WT9823-4AB00 3WT9823-4AC00	2.60 3.50
	3200 A	II	3-pole 4-pole	1 set'' 1 set ²⁾	3WT9823-4BB00 3WT9823-4BC00	5.400
Position indicator switch (actuated by withdrawa-	Connected Test position position	Disconnec- ted position	Precondition			
ble circuit breaker)	3 NO + 2 NO + 3 NC 2 NC	1 NO + 1 NC	possible if no pos. switch mounted yet	1 unit	3WT9884-1JC10	0.280
Automatic mechanical re	esetting device after overc	urrent tripp	ing	1 unit	3WT9866-2JA00	0.050
Shutters Protection against	1600 A 630 A 3800 A		3-pole	1 unit 1 unit	3WT9884-3CA00 3WT9884-3DA00	0.500 0.630
the main contacts	1600 A 630 A 3800 A	 	4-pole	1 unit 1 unit	3WT9884-3CB00 3WT9884-3DB00	0.500 0.500
Auxiliary supply connectors	up to 4000 A	I, II	3- and 4-pole	1 unit	3WT9827-1JA00	0.160
For guide frames – for spare parts and retrofitting						
Arc chute cover		I	3-pole 4-pole	1 unit 1 unit	3WT9811-0GA00 3WT9811-0HA00	3.820 4.950
		II	3-pole 4-pole	1 unit 1 unit	3WT9811-0JA00 3WT9811-0KA00	4.900 5.600
For withdrawable cire	cuit breakers					
Blocking device to prevent opening of the cabinet door, when circuit breaker is in connected position	up to 4000 A	1, 11	3- and 4-pole	1 unit	3WT9867-1JC00	0.100
For fixed-mounted an	nd withdrawable circuit	t breakers				
Main contact	up to 1250 A, N class, breaking capacity N	I	3-pole 4-pole	1 unit 1 unit	3WT9821-0AA00 3WT9821-0AA00	2.000 2.000
	up to 1250 A, S class; 1600 A, N class I _{CW} = 50 kA	I	3-pole 4-pole	1 unit 1 unit	3WT9821-0AA10 3WT9821-0AA10	2.500 2.500
	up to 1600 A, S class	I	3-pole 4-pole	1 unit 1 unit	3WT9821-0BA00 3WT9821-0BA00	3.000 3.000
	up to 2500 A	II	3-pole 4-pole	1 unit 1 unit	3WT9821-0DA00 3WT9821-0DA00	5.300 5.300
for fixed-mounted circuit breakers only	up to 4000 A	Ш	3-pole 4-pole	1 unit 1 unit	3WT9821-0FA00 3WT9821-0FA00	7.300 7.300
for withdrawable circuit breakers	up to 3200 A	II	3-pole	1 unit	3WT9821-0FA00	7.300
and for fixed-mounted circuit breakers	4000 A		4-pole	1 unit	3WT9821-0FA00	7.300
for withdrawable circuit breakers only	3800 A	II	3-pole 4-pole	1 unit 1 unit	3W19821-0GA00 3WT9821-0GA00	7.300 7.300
Arc chute	up to 1600 A	1	3-pole 4-pole	1 unit 1 unit	3WT9811-0CA00 3WT9811-0CA00	1.800 1.800
	630 A 4000 A	II	3-pole 4-pole	1 unit 1 unit	3WT9811-0FA00 3WT9811-0FA00	2.500 2.500
Installation manual for 3 Chinese language	WT8 ⁴⁾				3ZX1812-0WT81-0AN0	1.000

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switch (actuated by withdrawa-	position	position	ted position				
DIE CIRCUIT DREAKER)	3 NO + 3 NC	2 NO + 2 NC	1 NO + 1 NC	possible if no pos. switch mounted yet	1 unit	3WT9884-1JC10	0.280
Automatic mechanical r	esetting dev	vice after over	ercurrent trip	ping	1 unit	3WT9866-2JA00	0.050
Shutters Protection against	1600 A 630 A 38	300 A	 	3-pole	1 unit 1 unit	3WT9884-3CA00 3WT9884-3DA00	0.500 0.630
touching the main contacts	1600 A 630 A 38	300 A	 	4-pole	1 unit 1 unit	3WT9884-3CB00 3WT9884-3DB00	0.500 0.500
Auxiliary supply connectors	up to 4000	A	I, II	3- and 4-pole	1 unit	3WT9827-1JA00	0.160
For guide frames – for spare parts and retrofitting							
Arc chute cover			I	3-pole 4-pole	1 unit 1 unit	3WT9811-0GA00 3WT9811-0HA00	3.820 4.950
			II	3-pole 4-pole	1 unit 1 unit	3WT9811-0JA00 3WT9811-0KA00	4.900 5.600
For withdrawable cire	cuit break	ers					_
Blocking device to prevent opening of the cabinet door, when circuit breaker is in connected position	up to 4000	A	1, 11	3- and 4-pole	1 unit	3WT9867-1JC00	0.100
For fixed-mounted a	nd withdra	wable circ	uit breakers	•			_
Main contact	up to 1250 breaking c	A, N class, apacity N	Ι	3-pole 4-pole	1 unit 1 unit	3WT9821-0AA00 3WT9821-0AA00	2.000 2.000
	up to 1250 1600 A, N $I_{CW} = 50 \text{ kA}$	A, S class; class A	I	3-pole 4-pole	1 unit 1 unit	3WT9821-0AA10 3WT9821-0AA10	2.500 2.500
	up to 1600	A, S class	Ι	3-pole 4-pole	1 unit 1 unit	3WT9821-0BA00 3WT9821-0BA00	3.000 3.000
	up to 2500	A	II	3-pole 4-pole	1 unit 1 unit	3WT9821-0DA00 3WT9821-0DA00	5.300 5.300
for fixed-mounted circuit breakers only	up to 4000	A	II	3-pole 4-pole	1 unit 1 unit	3WT9821-0FA00 3WT9821-0FA00	7.300 7.300
for withdrawable circuit breakers	up to 3200	A	II	3-pole	1 unit	3WT9821-0FA00	7.300
and for fixed-mounted circuit breakers	4000 A			4-pole	1 unit	3WT9821-0FA00	7.300
for withdrawable circuit breakers only	3800 A		II	3-pole 4-pole	1 unit 1 unit	3WT9821-0GA00 3WT9821-0GA00	7.300 7.300
Arc chute	up to 1600	A	Ι	3-pole 4-pole	1 unit 1 unit	3WT9811-0CA00 3WT9811-0CA00	1.800 1.800
	630 A 40	A 000	II	3-pole 4-pole	1 unit 1 unit	3WT9811-0FA00 3WT9811-0FA00	2.500 2.500
Installation manual for 3 Chinese language	WT8 ⁴⁾					3ZX1812-0WT81-0AN0	1.000

¹⁾ 1 set = 3 units. ²⁾ 1 set = 4 units.

³⁾ Please order the number of connecting bars as required for the application.

⁴⁾ More languages are available as PDF online.

Project planning aids

Characteristic curves²⁾

2

Every electronic trip unit type and every setting has its own characteristic. Only a selection is shown in the following. The characteristic curves each show the largest and smallest setting range of 3WT8 circuit breakers with 1000 A rated current at 500 V rated voltage with various trip units.

In order to obtain a complete tripping characteristic, the relevant parts of the characteristic have to be combined.

The characteristic curves show the behavior of the electronic trip unit when it is activated by a current that is already flowing be-fore the tripping operation. If the overcurrent tripping occurs im-



3WT8 circuit breaker with ETU35WT electronic trip unit, LSI characteristic curve



3WT8 circuit breaker with ETU37WT electronic trip unit, G characteristic curve $^{3)}\,$

Tolerances for the set currents

L: Tripping operations between 1.05 and $1.2 \times I_R$ S: -0 %, +20 % L: -0 %, +20 %

G: -0 %, +20 %

Tolerances for the tripping times L: -20 %, +0 % for I^2t characteristic curve

S: -0 %, +60 ms or -0 %, 10 % for characteristic curve with fixed delay time

I: <50 ms G: -0 %, +60 ms or -0 %, 10 % for characteristic curve with fixed delay

time

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mediately after switch on and the electronic trip unit is therefore not yet enabled, the opening time is extended, depending on the level of the overcurrent by up to 15 ms. In order to determine the break-times of the circuit breakers, approximately 15 ms must be added to the opening times shown for the arcing time.

Refer to the following legend for tolerances

The characteristic curves shown apply to ambient temperatures at the circuit breaker between -5 and +55 °C. The trip unit can be operated at ambient temperatures of -20 to + 70 °C. An extended tolerance band can apply at these temperatures.



3WT8 circuit breaker with ETU37WT electronic trip unit, LSIN characteristic curve

¹⁾ Sizes I and II: 100 ... 1200 A.

- ²⁾ With single-pole loading in the lowest rated current range, the response times of the short-circuit release can be extended by approx. 10 % and the tripping times by approx. 15 % compared to the characteristic curve.
- ³⁾ As a result of the activation level of 150 A (frame size I) and 200 A (frame size II) in case of a single-pole loading the minimum pick-up value of ground fault will be $I_{\rm g}$ = 300 A.

Every electronic trip unit type and every setting has its own characteristic. Only a selection is shown in the following. The cha-racteristic curves each show the largest and smallest setting range of 3WT8 circuit breakers with 1000 A rated current at 500 V rated voltage with various trip units.

In order to obtain a complete tripping characteristic, the relevant parts of the characteristic have to be combined.

The characteristic curves show the behavior of the electronic trip unit when it is activated by a current that is already flowing before the tripping operation. If the overcurrent tripping occurs im-



3WT8 circuit breaker with ETU45WT and ETU47WT electronic trip unit, L characteristic curve



3WT8 circuit breaker with ETU45WT and ETU47WT electronic trip unit, I characteristic curve

Tolerances for the set currents

L: Tripping operations between 1.05 and 1.2 x $I_{\rm R}$ S: –0 %, +20 % I: –0 %, +20 %

G: -0 %, +20 %

Tolerances for the tripping times

S: -0%, +0% for l^2t characteristic curve S: -0%, +60 ms or -0%, 10% for characteristic curve with fixed delay time <50 ms Ŀ

G: -0 %, +60 ms or -0 %, 10 % for characteristic curve with fixed delay time

Project planning aids

2

mediately after switch on and the electronic trip unit is therefore not yet enabled, the opening time is extended, depending on the level of the overcurrent by up to 15 ms. In order to determine the break-times of the circuit breakers, approximately 15 ms must be added to the opening times shown for the arcing time.

Refer to the following legend for tolerances

The characteristic curves shown apply to ambient temperatures at the circuit breaker between -5 and +55 °C. The trip unit can be operated at ambient temperatures of -20 to + 70 °C. An extended tolerance band can apply at these temperatures.



3WT8 circuit breaker with ETU45WT and ETU47WT electronic trip unit, S characteristic curve



3WT8 circuit breaker with ETU47WT electronic trip unit, G characteristic $\mbox{curve}^{2)}$

1) Sizes I and II: 100 ... 1200 A.

 $^{2)}$ As a result of the activation level of 150 A (frame size I) and 200 A (frame size II) in case of a single-pole loading the minimum pick-up value of ground fault will be $I_{\rm g}$ = 300 A.



Project planning aids

Dimensional drawings

3WT circuit breakers, withdrawable version, 3-pole Horizontal connection

2







a Disconnected position

b Test position

c Connected position

① Auxiliary conductor plug-in system

Guide frame

③ Switchboard door

④ Slots (6 mm deep) for line-side interphase barriers

(5) Holes for attaching the guide frame

(6) Center line of circuit breaker

Safety clearances

No additional safety clearance is required to adjacent grounded (on fixed-mounted circuit breaker (on fixed-mounted circuit breakers identified with 3).

The clearance between the connection point and the support for the busbars must not exceed 250 mm.

All dimensions in mm.

Frame size	Rated current A	а	b	С	d	е	f	
I	≤ 1250 A, N, S	280	320	90	8	60	30	
	1600 A, N	280	320	90	8	60	30	
	1600 A, S	280	320	90	15	60	30	
П	630 to 2500	380	420	120	15	80	40	
	3200	380	420	120	30	100	50	
Main co	onductor connection							
Termina (inside d	Terminal screws with strain washers M12 (inside diameter = 12 mm to DIN 6769-Fst)							
Recommended tightening torque Nm 70								
Require		8.8 to D	IN 267					

Up to a rated operating voltage of AC 500 V the busbars running vertically (such as in the case of front-accessible connection) do not have to be screened if the busbar system is not arranged above the circuit breaker. In contrast, live bare conductors and busbars at voltages In contrast, live bare conductors and busbars at voltages above AC 500 V that are arranged above the circuit brea-ker and when power is supplied from above must be insu-lated against flashover by interphase barriers or by a busbar cover or by an arc chute cover (use accessory for horizontal or vertical connection only). Optional electrical equipment directly above (if no arc chute cover is used) or to the side of the circuit breaker should be protected by a cover. Also after the attachment of additional barriers or covers it must be ensured that the discination of heat from the circuit breaker is not impeded

dissipation of heat from the circuit breaker is not impeded.



Project planning aids

3WT circuit breakers, withdrawable version, 3-pole Front connection



				Ø13.5 77	
				Double h Holes in	iole, 40 bars to
a	b	С	d	е	

≤ 1250 A, N, S 390 408 60 8 1600 A, N 60 8 390 408 ---60 1600 A, S 15 390 408 ---630 to 2500 80 40 20 420 445 3200 100 50 20 420 445



4

00 to 1600 A DIN 43673



Double hole, 2000 to 3200 A Holes in bars to DIN 43673

Vertical connection up to 3200 A

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① Guide frame Switchboard door ③ Slots (6 mm deep, 3.5 mm wide) for line-side phase barriers ④ Center line of circuit breaker

For safety clearances see page 2/38. All dimensions in mm.

Frame size	Rated current A	а	b	С	d	е	f	h	i	k	I	m	n
1	≤ 1250 A, N, S	280	320	90	8	60	30	455	470	157.5	115	37	90
	1600 A, N	280	320	90	8	60	30	455	470	157.5	115	37	90
	1600 A, S	280	320	90	15	60	30	455	470	157.5	115	37	90
11	630 to 2500	380	420	120	15	80	40	465	480	157.5	115	37	140
	3200	380	420	120	30	100	50	465	480	150	130	37	140

Vertical connection 3800 A only - other mounting dimensions are equivalent to 3200 A version.



Project planning aids

3WT fixed-mounted circuit breakers, 3-pole Horizontal connection



2







- ① Clearance for lifting out the arc chute
- Space for auxiliary supply connectors
- ③ Space above arc chute
- Auxiliary supply connectors
- (5) Switchboard door
- Recessed grip
- M8 nut
- (8) Slots (4 mm deep) for line-side phase barriers
- Genter line of circuit breaker
- For safety clearances see page 2/38.
- All dimensions in mm.



Front connection



Double hole Holes in bars to DIN 43673



Frame size	Rated current A	а	b	С	d	е	f	g	h	i	k	I
1	≤ 1250 A, N, S	300	320	90	8	60	30		8	530	18	40
	1600 A, N	300	320	90	8	60	30		8	530	18	40
	1600 A, S	300	320	90	15	60	30		20	530	18	40
II	630 to 2500	400	420	120	15	80	40	40	20	560	22	44
	3200	400	420	120	30	80	40	40	20	560	22	44



Project planning aids

3WT fixed-mounted circuit breakers, 3-pole and 4 pole

Vertical connection 4000 A only



All dimensions in mm.

2



Project planning aids

3WT circuit breakers, withdrawable version, 4-pole Horizontal connection



2







c Connected position

1 Auxiliary conductor plug-in system

Guide frame

③ Switchboard door

(4) Slots (6 mm deep) for line-side phase barriers

(5) Holes for attaching the guide frame

6 Center line of operator panel

For safety clearances see page 2/38.

All dimensions in mm.

Frame size	Rated current A	а	b	С	d	е	f	р
1	≤ 1250 A, N, S	370	410	90	8	60	30	140
	1600 A, N	370	410	90	8	60	30	140
	1600 A, S	370	410	90	15	60	30	140
Ш	630 to 2500	500	540	120	15	80	40	190
	3200	500	540	120	30	100	50	190



Project planning aids

3WT circuit breakers, withdrawable version, 4-pole







2

Double hole, 2000 to 3200 A Holes in bars to DIN 43673

Double hole, 400 to 1600 A Holes in bars to DIN 43673

Frame size	Rated current A	а	b	С	d	е
1	≤ 1250 A, N, S	60		8	390	408
	1600 A, N	60		8	390	408
	1600 A, S	60		15	390	408
11	630 to 2500	80	40	20	420	445
	3200	100	50	20	420	445

Vertical connection up to 3200 A





L1 N

① Guide frame

Switchboard door

 ③ Slots (6 mm deep, 3.5 mm wide) for line-side phase barriers

④ Center line of operator panel

For safety clearances see page 2/38. All dimensions in mm.

Frame size Rated current d е h k m n 0 A ≤ 1250 A, N, S 1 157.5 115 8 60 30 455 470 37 90 90 1600 A, N 8 60 30 455 470 157.5 115 37 90 90 1600 A, <u>S</u> 15 60 30 455 470 157.5 115 37 90 90 11 630 to 2500 15 80 40 465 480 157.5 115 37 140 120 3200 30 100 465 480 50 150 130 37 140 120

Project planning aids

3WT fixed-mounted circuit breakers, 4-pole

Horizontal connection









① Clearance for lifting out the arc chute

- ② Space for auxiliary supply connectors
- ③ Space above arc chute
- (4) Auxiliary supply connectors incl. wiring space
- (5) Switchboard door
- Recessed grip
- Nut M 8
- ③ Slots (4 mm deep) for line-side phase barriers④ Center line of operator panel

For safety clearances see page 2/38.

All dimensions in mm.

Front connection



Double hole Holes in bars to DIN 43673



Frame size	Rated current A	а	b	С	d	е	f	g	h	i	k	I	р
1	≤ 1250 A, N, S	390	410	90	8	60	30		8	530	18	40	150
	1600 A, N	390	410	90	8	60	30		8	530	18	40	150
	1600 A, S	390	410	90	15	60	30		15	530	18	40	150
	630 to 2500	520	540	120	15	80	40	40	20	560	22	44	200
	3200	520	540	120	30	80	40	40	20	560	22	44	200

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3WT circuit breakers, 3- and 4-pole Arc chute cover





(2) The dimension of circuit breaker with arc chute cover

All dimensions in mm.

Door cut-out for operator panel using the door sealing frame





Door cut-out with edge protector Cut-out after mounting

> Cut-out when the circuit breaker is installed in a switchgear cabinet and with the door arranged centrally.

Section width	Fixed-mounted b	Withdrawable b
400	275	292
500	275	290
600	275	288

() Mounting surface*3 holes, dia. \varnothing 5.5 mm; only drill when using door interlocking.

Accessories for 3WT circuit breakers, 3- and 4-pole

Mutual mechanical interlocking (1)/locking device to prevent closing (2), consisting of lock in the control cabinet door and interlock module with Bowden wire

For fixed-mounted circuit breakers





 Clearance for interlock module (without Bowden wire)







Project planning aids

Current transformers for overload protection in the neutral conductor

External transformers for neutral conductor with copper busbars









- 60 --16 |**-**−1 |€-8| + R 13, 96.5 R 22 ᄂ -51 -18

Size II, 3WL9 111-0AA22-0AA0

-70

83

Protective cover, IP55

313



Door cut-out for operator panel using protective cover IP55



All dimensions in mm.





 \sim

External transformers for neutral conductor without copper busbars Size I, 3WL9 111-0AA21-0AA0





Project planning aids

2





Project planning aids

Terminal diagrams

2

The following overview shows which part of the internal equipment is connected to which part of the contact blocks, i.e. this is a complete auxiliary wiring diagram of the circuitbreaker.



Further information

For planning guides with further descriptions relating to design, operating principle, installation and retrofitting see manual "3WT Air Circuit Breakers" at www.siemens.com/lowvoltage/manuals.





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Glossary

Further documentation

Siemens contacts

Service & Support

Software licenses

Standards and approvals

Comprehensive support from A to Z

Conditions of sale and delivery

Glossary

Rated operating voltage, (Ue) Voltage fixed by the manufacturer. Several pertinent tests relate to its EN 60947-1; 4.3.1.1 determination, as may also the utilization category. Along with the rated (operating) current, it determines the device's utilization. The highest value of rated operating voltage may in no case be greater than the value of the rate insulation voltage $U_{\rm i}$. Rated insulation voltage, (U_i) Voltage measure to which are related tests of dielectric strength and EN 60947-1; 4.3.1.2 creepage distance. Rated current, (In) Current value of particular circuit breaker that can be handled uninter-EN 60947-2; 4.3.2.3 ruptedly. The highest current valued tripping the circuit breaker in conformity with a specifically stated tripping characteristic. Reduced rated current, (I_r) Specifically established, reduced value of In current for a regulated time-dependent (thermal) release and that the circuit breaker can handle continuously. Maximum setting is at value equal to In-Changing I_r shifts the release's tripping characteristic along the current axis. ($I_r = k \times I_n$ holds where $k \le 1$) Tripping time at a given I_r multiple, (t_r) Time after which circuit breaker will trip, if a current flows through it that is equal to the given multiple of I_r . Changing t_r shifts the tripping characteristic along the time axis.

Actuating current of (selective) release's time-independent delay, (*I*_{ds})

Delay of time-independent delayed release, (t_v)

Actuating current of time-independent instantaneous, (I_{rm})

Rated operating current, (*I*_e) EN 60947-1; 4.3.2.3

Rated normal current, (*I***_u)** EN 60947-1; 4.3.2.4

Rated ultimate short-circuit breaking capacity, (*I*_{cu}) EN 60947-2; 2.15.1; 4.3.5.2.1

Rated short-circuit service breaking capacity, (*I*_{cs}) EN 60947-2; 2.15.2; 4.3.5.2.2

Rated short-time withstand current, (*I***_{cw})** EN 60947-1; 4.3.6.1 EN 60947-2; 4.3.5.4 EN 60947-3; 4.3.6.1 Minimum current value causing the release's time-independent delay to actuate.

If a current flows through the circuit breaker equal to at least I_{sd} but not reaching I_{rm} the circuit breaker will trip with time delay t_v . Total shut-off time is influenced by the tripping of the circuit breaker itself and is about 10 ÷ 20 ms longer.

Minimum current value causing the time-independent instantaneous release to actuate.

Rated operating current of device (switch-disconnector) is fixed by the manufacturer with consideration for the rated operating voltage, rated frequency, rated operation, utilization category and type of protective cover, if that comes into consideration.

Current value set by the manufacturer and which the device can handle in continuous operation, i.e. during a period longer than 8 hours (weeks, months, or longer).

Ultimate short-circuit breaking capacity value expressed as the rms value of the alternating component of the assumed short-circuit current that the circuit breaker must be able to manage in the mode: 1x switching off of the short circuit and a following 1x make-break sequence. After testing, the circuit breaker need not be able to conduct the rated current uninterruptedly. I_{cu} is set for the rated operating voltage at the rated frequency and at the established power factor for alternating current or at the time constant for direct current. Must fulfil the condition: $I_{cu} \ge I_k$ "

Value of the operating short-circuit breaking capacity expressed as the rms value of the alternating component of the assumed short-circuit current that the circuit breaker must be able to manage in the mode: 1x switching off of the short circuit and a following 2x make-break sequence. May also be expressed as a percentage of $I_{\rm CU}$. After testing, the circuit breaker must be able uninterruptedly to conduct the rated current and to switch off the overcurrent. Temperature increase of the main terminals may be greater. $I_{\rm CS}$ is set for the rated operating voltage at the rated frequency and at the established power factor for alternating current or at the time constant for direct current. Permitted: $I_{\rm CS} \ge I_{\rm k}$ "

Value of short-time withstand current specified by the manufacturer that the device is able to handle without damage during a designated time period (short-time delay). In case of alternating current, it is the rms value of the alternating component of the assumed short-circuit current $I_{\rm p}$.

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Catalog notes

Overview

Trademarks

All product designations may be registered trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes may violate the rights of the owner.

Amendments

Unless stated otherwise on the individual pages of this catalog, we reserve the right to make changes, in particular to the specified values, measurements and weights.

Dimensions

All dimensions are given in mm.

Illustrations

The illustrations are not binding.

Technical specifications

The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

Further technical information is available at www.siemens.com/lowvoltage/product-support

- under "Entry type":
 - Application example
 - Certificate
 - Characteristic
 - Download
 - FAQ
 - Manual
 - Product note
 - Software archive
 - Technical data

Configurators can be found at www.siemens.com/lowvoltage/configurators

Assembly, operation and maintenance

Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

Symbols

In the table below, you will find all symbols concerning connections that can occur in this catalog. In combination with orange highlighting, these identify special selection criteria.

- Connections
- Screw connection

Ring cable lug connection

Spring-loaded terminals

Ordering notes

Logistics

General

With regard to delivery service, communications and environmental protection, our logistics service ensures "quality from the moment of ordering right through to delivery". By designing our infrastructure according to customer requirements and implementing electronic order processing, we have successfully optimized our logistics processes.

We are proud of our personal consulting service, on-time deliveries and one-day transport within Germany.

To this end, we supply preferred types marked with \blacktriangleright ex works.

We regard the ISO 9001 certification and consistent quality checks as an integral part of our services.

Electronic order processing is fast, cost-efficient and error-free. Please contact us if you want to benefit from these advantages.

Packaging, packing units

The packaging in which our equipment is dispatched provides protection against dust and mechanical damage during transport, thus ensuring that all our products arrive in perfect condition.

We select our packaging for maximum environmental compatibility and reusability (e.g. crumpled paper for protection during transport in packages up to 32 kg) and, in particular, with a view to reducing waste.

With our multi-unit and reusable packaging, we offer you specific types of packaging that are both kind to the environment and tailored to your requirements:

Your advantages at a glance:

- Lower ordering costs.
- Cost savings through same-material type packaging: Low/no disposal costs.
- Reduced time and cost thanks to short unpacking times.
- "Just-in-time" delivery directly to the production line helps reduce stock: Cost savings through reduction of storage areas.
- · Fast assembly thanks to supply in sets.
- Standard Euro boxes corresponding to the Euro pallet modular system - suitable for most conveyor systems.
- Active contribution to environmental protection.

Unless stated otherwise in the "Selection and ordering data" of this catalog, our products are supplied individually packed.

For small parts/accessories, we offer you cost-effective packaging units as standard packs containing more than one item, e.g. 5, 10, 50 or 100 units. It is essential that whole number multiples of these quantities be ordered to ensure satisfactory quality of the products and problem-free order processing.

The products are delivered in a neutral carton. The label includes warning notices, the CE marking, and device descriptions in English and German.

In addition to the Article No. (MLFB) and the number of items in the packaging, the operating instructions article number (Instr.-Order-No.) is also specified. It can be obtained from your local Siemens representative (for a list of your Siemens contacts, see www.siemens.com/lowvoltage/contact).

Most device Article No.'s can be obtained by means of the EAN barcode to simplify ordering and storage logistics.

The associated master data, too, is available from your local Siemens representative.

Further documentation

Low-Voltage Power Distribution and Electrical Installation Technology on the WWW



Product selection using the interactive catalog CA 01



On the Internet you will find a host of information all about low-voltage power distribution and electrical installation technology products, such as:

- Overview of our product portfolio
- · Background information, news and dates
- Videos, podcasts and newsletters
- · Links to blogs and Twitter
- Brochures, catalogs, operating instructions and manuals for direct download

Visit us online and get to know our product range! www.siemens.com/lowvoltage

Detailed information together with user-friendly interactive functions

The interactive catalog CA 01 covers more than 100 000 products, thus providing a comprehensive overview of the product range provided by Siemens.

You can find everything you need here for solving automation, switching, installation and drive technology tasks. All information is provided over a user interface that is both user-friendly and intuitive.

Information about the interactive catalog CA 01 can be found on the Internet at:

www.siemens.com/automation/ca01

or on DVD.

Industry Mall



The Industry Mall – for online information, product selection and ordering

- Detailed information including product data, illustrations, certificates and CAx data
- Simple configuring of systems
- · Possible to request individualized quotations
- Availability check
- Online ordering facility
- Order tracking/order overview
- Fast access to relevant training offers and services

You can find the Industry Mall on the Internet at

www.siemens.com/industrymall

FAQ8 Manual

Further documentation

Industry Online Support



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Comprehensive support – at any time, whatever your location

- FAQs, sample applications, information about successor products and product news
- Prompt assistance with technical queries
- Discussions and best practice sharing with other users in the forum
- Provision of high-quality product data for your planning programs
- Faster access to information with helpful filter and folder functions in mySupport
- Automatic notification service to keep you up to date with the latest information about topics of interest to you

You can find Siemens Industry Online Support on the Internet at:

www.siemens.com/online-support

In the "Entry type" selection box in Product Support, you will find the following:

- Application example
- Certificate
- Characteristic
- Download
- FAQ
- Manual
- Product note
- Software archive
- Technical data
- www.siemens.com/lowvoltage/product-support

In addition, the Low-Voltage Power Distribution and Electrical Installation Technology catalogs are also available there.

www.siemens.com/lowvoltage/catalogs

Further documentation

Industry Online Support App



Main functions at a glance

- Scanning of product codes (EAN/QR and data matrix codes) with direct display of all technical information on the product, including graphic data (CAx data).
- Delivery of product information or entries by email, so that the information can immediately be processed at the workplace.
- Submission of gueries to Technical Support (Support Requests). With photo function for transmitting detailed information.
- Contents and interfaces available in 6 languages (German, English, French, Italian, Spanish and Chinese) - including option of temporary switchover to English.
- Offline cache function for all favorites stored in "mySupport". These entries can also be retrieved without network reception.
- Import of PDF documents into a library (e.g. iBooks or similar).

You can find information on the Industry Online Support App on the Internet at

https://new.siemens.com/global/en/products/software/ mobile-apps/industry-online-support.html



Android:



Windows:





Apple iOS:







3

Further documentation

Product configurator

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CAx Download Manager

Internal circuit Dimensional Operating diagrams drawings instructions Connection Product images 3D models diagrams Product master data Manuals Data sheets Characteristic EPLAN Electric P8 Macros Certificates curves

You can find the CAx Download Manager on the Internet at www.siemens.com/lowvoltage/cax

Finding the right product faster

- Complete selection of products and systems based on technical characteristics or application requirements
 Simple, intuitive operation
- Option to save the configuration and order lists in a file format of your choice (txt, pdf, xls, csv)
- Direct transfer of the order list into the shopping cart of the Siemens Industry Mall
- Fast access to product data, diagrams, certificates and CAx data for the selected product and system configuration
- Available in multiple languages for use by customers anywhere in the world

The configurators are available online in the Siemens Industry Mall and offline in Catalog CA 01. You can find our configurators at the following website:

www.siemens.com/lowvoltage/configurators

Time savings of up to 80% with universal product data for your CAE and CAD systems

The CAx Download Manager can supply you with all the necessary CAx file types for the products of your choice for use in all common CAE and CAD systems. The data contained in the files is continuously updated. The whole process involves only four selection steps and is free of charge. All your selected files are packed into a zip file which you can download for further use.

Siemens makes available up to 12 file types to support your mechanical (CAD) and electrical (CAE) planning processes for you to download at any time of the day.

- No manual data collection necessary
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- · Standardized documentation is simple to generate
- Choice of different languages for system commissioning anywhere in the world

My Documentation Manager



In "mySupport" you can compile individual documentation for your project by dragging and dropping

* e.g. Low Voltage Directive 2006/95/EC and EC Machinery Directive 2006/42/EC

You can find My Documentation Manager on the Internet at www.siemens.com/lowvoltage/mdm

User-friendly compilation of project-specific documentation

In accordance with directives*, the documentation is part of the plant and requires certification, thus giving the purchaser the right to full plant documentation.

To support you in this, a manual configurator has been developed with which you can put together individual and standard-compliant documentation – fully in accordance with the relevant project-specific requirements.

You can thus select the chapters relevant to the respective project from the available manuals of the installed Siemens components. FAQs, certificates, data sheets and your own content can also be incorporated.

- Compile and structure manuals, data sheets, FAQs and certificates simply by dragging and dropping
- · Insert personalized content via the Notes function
- Further processing possible thanks to selectable export formats (pdf, xml, rtf)
- After generating the documentation, automatic translation into the desired language is possible
- Always up-to-the minute thanks to the Update function

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Standards and approvals

Overview

Certificates

An overview, updated on a daily basis, of our products certified in accordance with CE, UL, CSA, FM, shipping authorizations etc. for low-voltage power distribution and electrical installation products can be found on the Internet at

www.siemens.com/lowvoltage/certificates

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In the **Entry list**, you can **filter the view** in order to quickly find comprehensive information on the following subjects:

- Product or search term
- Date
- Type of certificate (general product approval, test certificates, shipping approval, ...)
- Certificate (confirmations, UL, VDE,...)
- Approval office (TÜV, VDE, UL, ...)
- Country



Standards and approvals

Approval requirements valid in different countries

Siemens low-voltage switchgear and controlgear are designed, manufactured and tested according to the relevant German standards (DIN and VDE), IEC publications and European standards (EN) as well as CSA and UL standards. You will find the standards assigned to the single devices in the relevant certificates at

www.siemens.com/lowvoltage/certificates

In addition to the pertinent VDE, EN and IEC standards, the requirements of the various regulations valid in other countries have also been taken into account in the design of the equipment in some cases, in order that the devices can be deployed globally as far as possible.

In some countries an approval is required for certain low-voltage switchgear and controlgear components. Depending on the market requirements, these devices have been submitted for approval to the authorized testing institutes. In some cases, CSA for Canada and UL for the USA only approve special versions. Such special versions are listed separately from the standard versions in the relevant parts of this catalog.

For this equipment, there are sometimes limits with regard to the maximum permissible voltages, currents and rated outputs or special approvals and, in some cases, special identification may be required.

For use on board ship, the specifications of the marine classification societies must be observed. In some cases, they require type tests of the components to be approved.

If you have any questions concerning UL/CSA approvals, please contact Technical Support:

www.siemens.com/lowvoltage/contact

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Siemens contacts

Contacts for low-voltage power distribution and electrical installation technology



With low-voltage power distribution and electrical installation technology we consistently pursue one goal:

long-term improvement of your competitive ability.

We are committed to this goal. Thanks to our dedication, we are continually setting new standards. In all industries – worldwide.

At your service, locally, around the globe: Partners for consulting, sales, training, service, support, spare parts ... on the entire range of low-voltage power distribution and electrical installation technology.

Your personal contact can be found in our Contact Database at

www.siemens.com/lowvoltage/contact

- You start by selecting a
- Required competence
- Product or sector
- Country
- City
- or by performing a
- · search for a specific location or
- individual.



Service & Support

Unrivaled complete range of services over the entire life cycle

Online Support



Our comprehensive online information platform covers every aspect of our Service & Support and is available whenever, wherever.



You will find further information at

www.siemens.com/com/lowvoltage/contact

Siemens Field Service offers support with all aspects of maintenance – so that the availability of your machines and plants is assured whatever the case.

You will find further information at www.siemens.com/online-support www.siemens.com/lowvoltage/product-support

Technical Support



The competent consulting service for technical issues with a broad range of customeroriented services for all our products and systems.

Spare Parts



You will find further information at

www.siemens.com/lowvoltage/contact

Plants and systems in all industries worldwide are expected to meet ever higher levels of availability. We can help you rule out unexpected stoppages: with a global network and optimum logistics chains.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request You can find your local contacts at www.siemens.com/lowvoltage/contact

Training



You will find further information at www.siemens.com/lowvoltage/training

Extend your lead – with practice-related know-how straight from the manufacturer.

Specification texts

You can obtain qualified, free support to help you produce specifications for technically equipping non-residential and industrial buildings at www.siemens.com/specifications

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Appendix

Comprehensive support from A to Z

Product information	on
Website	Fast and targeted information on low-voltage po distribution and electrical installation technology
	www.siemens.com/lowvoltage
Newsletter	Always up to date about our trend-setting produced and systems:
	www.siemens.com/lowvoltage/newsletter
Product information	on/product & system selection
Siemens Industry	Low-Voltage Power Distribution and Electrical
Online Support	Installation Technology catalogs
	www.siemens.com/lowvoltage/catalogs
Industry Mall	Comprehensive information and order platform for
•	the Siemens Industry Basket:
	www.siemens.com/lowvoltage/mall
CA 01	Every product for automation and drive technolo
	Interactive Catalog, DVD
Product and syste	m engineering
SIMARIS	Support in planning and configuring the electrica
software tools	power distribution:
	www.siemens.com/simaris
SIMARIS	Support throughout the entire configuration cycle
configuration	from the configuration of SIVACON \$8 switchboa
Soltware	quotation preparation, right through to the creation
	plant documentation:
	www.siemens.com/simarisconfig
Software for power	Support in performing power loss calculations for
loss calculations -	dimensioning of control cabinets:
	www.siemens.com/simaristherm
Product document	tation
Siemens Industry	Comprehensive technical information – from
Online Support	planning to configuration and operation:
	www.siemens.com/online-support
	www.siemens.com/lowvoltage/product-support
Product configurator	Complete selection of products and systems bas on technical characteristics or application requirements:
	www.siemens.com/lowvoltage/configurators
CAx Download	Collation of CAx data types for standard CAE an
Manager	www.siemens.com/lowvoltage/cax
	www.siemens.com/lowvoltage/eax
My Documentation	Compilation of project-specific documentation:
manager	www.siemens.com/lowvoltage/mdm
Image database	Collection of product photographs and graphics
J	such as dimensional drawings and internal circu
	ulagrams:
	www.siemens.com/low/oltage/picturedb
Product training	
Product training SITRAIN Portal	Comprehensive training program for our product
Product training SITRAIN Portal	Comprehensive training program for our product systems and engineering tools:
Product training SITRAIN Portal	Comprehensive training program for our product systems and engineering tools: www.siemens.com/lowvoltage/training
Product training SITRAIN Portal Product hotline	Comprehensive training program for our product systems and engineering tools: www.siemens.com/lowvoltage/training
Product training SITRAIN Portal Product hotline Technical Support	Comprehensive training program for our product systems and engineering tools: www.siemens.com/lowvoltage/training Support in all technical queries about our product



Software licenses

Overview

Software types

Software requiring a license is categorized into types. The following software types have been defined:

- · Engineering software
- Runtime software

Engineering software

This includes all software products for creating (engineering) user software, e.g. for configuring, programming, parameterizing, testing, commissioning or servicing.

Data generated with engineering software and executable programs can be duplicated for your own use or for use by thirdparties free-of-charge.

Runtime software

This includes all software products required for plant/machine operation, e.g. operating system, basic system, system expansions, drivers, etc.

The duplication of the runtime software and executable programs created with the runtime software for your own use or for use by third-parties is subject to a charge.

You can find information about license fees according to use in the ordering data (e.g. in the catalog). Examples of categories of use include per CPU, per installation, per channel, per instance, per axis, per control loop, per variable, etc.

Information about extended rights of use for parameterization/configuration tools supplied as integral components of the scope of delivery can be found in the readme file supplied with the relevant product(s).

License types

Siemens Industry Automation & Drive Technologies offers various types of software license:

- · Floating license
- Single license
- · Rental license
- Rental floating license
- Trial license
- Demo license
- · Demo floating license

Floating license

The software may be installed for internal use on any number of devices by the licensee. Only the concurrent user is licensed. The concurrent user is the person using the program. Use begins when the software is started.

A license is required for each concurrent user.

Single license

Unlike the floating license, a single license permits only one installation of the software per license.

The type of use licensed is specified in the ordering data and in the Certificate of License (CoL). Types of use include for example per instance, per axis, per channel, etc.

One single license is required for each type of use defined.

Rental license

A rental license supports the "sporadic use" of engineering software. Once the license key has been installed, the software can be used for a specific period of time (the operating hours do not have to be consecutive).

One license is required for each installation of the software.

Rental floating license

The rental floating license corresponds to the rental license, except that a license is not required for each installation of the software. Rather, one license is required per object (for example, user or device).

Trial license

A trial license supports "short-term use" of the software in a nonproductive context, e.g. for testing and evaluation purposes. It can be transferred to another license.

Demo license

The demo license support the "sporadic use" of engineering software in a non-productive context, for example, use for testing and evaluation purposes. It can be transferred to another license. After the installation of the license key, the software can be operated for a specific period of time, whereby usage can be interrupted as often as required.

One license is required per installation of the software.

Demo floating license

The demo floating license corresponds to the demo license, except that a license is not required for each installation of the software. Rather, one license is required per object (for example, user or device).

Certificate of License (CoL)

The CoL is the licensee's proof that the use of the software has been licensed by Siemens. A CoL is required for every type of use and must be kept in a safe place.

Downgrading

The licensee is permitted to use the software or an earlier version/release of the software, provided that the licensee owns such a version/release and its use is technically feasible.

Delivery versions

Software is constantly being updated.

- The following delivery versions
- PowerPack
- Upgrade

can be used to access updates.

Existing bug fixes are supplied with the ServicePack version.

PowerPack

PowerPacks can be used to upgrade to more powerful software. The licensee receives a new license agreement and CoL (Certificate of License) with the PowerPack. This CoL, together with the CoL for the original product, proves that the new software is licensed.

A separate PowerPack must be purchased for each original license of the software to be replaced.

Upgrade

An upgrade permits the use of a new version of the software on the condition that a license for a previous version of the product is already held.

The licensee receives a new license agreement and CoL with the upgrade. This CoL, together with the CoL for the previous product, proves that the new version is licensed.

A separate upgrade must be purchased for each original license of the software to be upgraded.
Appendix

Software licenses

Overview

ServicePack

ServicePacks are used to debug existing products. ServicePacks may be duplicated for use as prescribed according to the number of existing original licenses.

License key

Siemens Industry Automation & Drive Technologies supplies software products with and without license keys.

The license key serves as an electronic license stamp and is also the "switch" for activating the software (floating license, rental license, etc.).

The complete installation of software products requiring license keys includes the program to be licensed (the software) and the license key (which represents the license).

Software Update Service (SUS)

As part of the SUS contract, all software updates for the respective product are made available to you free of charge for a period of one year from the invoice date. The contract will automatically be extended for one year if it is not canceled three months before it expires.

The possession of the current version of the respective software is a basic condition for entering into an SUS contract.

You can download explanations concerning license conditions from www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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Appendix

Conditions of sale and delivery

1. General standards

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to these conditions of sale and delivery (hereinafter: CSD). Please note: the scope, the quality and the conditions for supplies and services, including software products, by any Siemens group or Regional Company having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. These CSD apply exclusively for orders placed with Siemens AG, Germany.

1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following shall be subordinate to these CSD

- for installation, the "Standard Terms and Conditions for Installation –Germany" and
- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services – for Customers in Germany"¹⁾ and
- for standalone software products and software products that are part of another product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or Registered Office in Germany"¹) and
- for other supplies and services, the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹).

In the event that such other supplies and services include open-source software, the conditions of which override the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹), the product will be supplied with a notice detailing the special conditions that apply for the relevant open-source software. This applies accordingly in the case of a reference to other third-party software components.

1.2 For customers with a seat or registered office outside of Germany

For customers with a seat or registered office outside of Germany, the following shall be subordinate to these CSD

- for Plant Analytics Services the "Standard Terms and Conditions for Plant Analytics Services"¹⁾ (only available in English) and
- for services, the "International Terms & Conditions for Services"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾ and
- for the supply of other hardware and software the "International Terms & Conditions for Products"¹⁾ supplemented by the "Software Licensing Conditions"¹⁾.

1.3 For customers with framework agreements

To the extent that our products and services are covered by an existing framework agreement, the conditions there apply instead of this CSD.

2. Prices

The prices are in € (euros) ex works, excluding packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

To compensate fluctuating prices of raw materials (for example silver, copper, aluminum, lead, gold, dysprosium and neodymium), surcharges are calculated on a daily basis for products containing these raw materials using the metal factor. A surcharge for the particular raw material is added to the price of a product if the basic quotations for this raw material are exceeded.

Each product's metal factor dictates for which raw materials the metal surcharges are calculated, from which quotation and with which calculation method (weight or percentage method).

An exact explanation of the metal factor can be found at: www.siemens.com/automation/salesmaterial-as/catalog/en/ terms_of_trade_en.pdf

The surcharge will be calculated (except in the case of dysprosium and neodymium) on the basis of the official price on the day prior to receipt of the order or prior to the release order for calculation of the surcharge.

In the event of placement of an order, the relevant three-month average price from the quarter prior to order receipt or the release order shall be used with a one-month buffer to calculate the dysprosium and neodymium surcharge ("rare earths") (you will find details in the aforementioned explanation of the metal factor).

3. Additional terms and conditions

All dimensions are in mm. In Germany, according to the German law on units in metrology, data in inches only apply to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the corresponding pages of this catalog - especially with regard to data, dimensions and weights given - these are subject to change without prior notice.

 You can download the text of the Siemens AG terms and conditions of trade at www.siemens.com/automation/salesmaterialas/catalog/en/terms_of_trade_en.pdf

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Conditions of sale and delivery

4. Export regulations

We shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions.

Exporting may be subject to authorization. In delivery information, we label authorization obligations according to German, European and US export lists.

Our products are controlled by the U.S. authorities (goods labeled with "ECCN" not equal to "N") and may only be supplied to the stated country of the end user for sole use by the end user. Without U.S. government approval or other approval under U.S. law, the products may not be sold, transferred or otherwise forwarded to other countries or to other persons other than the specified end user, either in their original form or after further processing into other goods. Goods labeled with an "AL" not equal to "N" are subject European/national export authorization requirements.

Please note that you can also preview the export designations in the respective product description via our "Industry Mall" online catalog system. The deciding factors, however, are the AL or ECCN export designations indicated on order confirmations, delivery notes and invoices.

Unmarked items or items marked "AL:N" / "ECCN:N" or "AL:9X9999" / "ECCN: 9X9999" may require authorization based on their intended use or ultimate destination.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you shall comply with all applicable national and international (re-) export control regulations.

If required to conduct export control checks, you, at our request, shall promptly provide us with all information pertaining to particular end customers, destination and intended use of goods, works and services provided by us, as well as any relevant export control restrictions.

The products listed in this catalog may be subject to European/German and/or US export regulations. Therefore, any export requiring a license is subject to approval by the competent authorities.

Errors excepted and subject to change without prior notice.

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Appendix

Notes

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Catalogs

Digital Factory, Process Industries and Drives and Energy Management

Further information can be obtained from our branc

	Interactive Catalog	Catalog
	Products for Automation and Drives	CA 01
_		0/101
	Building Control	FT OI
	GAMMA Building Control	ELGI
	Drive Systems	
	SINAMICS G130 Drive Converter Chassis Units	D 11
	Digital: SINAMICS PERFECT HARMONY GH180	D 15 1
	Medium-Voltage Air-Cooled Drives	
	(Germany Edition)	
	Systems, Cabinet Units Air-Cooled and Liquid-Cooled	D 10.1
	SINAMICS S120 Chassis Format Converter Units	D 21.3
	SINAMICS S120 Cabinet Modules	
	SINAMICS S120 and SIMOTICS	D 21.4
	SINAMICS DCM DC Converter, Control Module	D 23.1
	SINAMICS Inverters for	D 31.1
	SINAMICS Inverters for	D 31 2
	Single-Axis Drives · Distributed Inverters	D 01.2
	Digital: SINAMICS Converters for Single-Axis Drives	D 31.5
	SINAMICS G120X Digital: SINAMICS S210 Sorve Drive System	D 32
	Digital: SINAMICS V90 Basic Servo Drive System	D 32 D 33
	Digital: SINAMICS G120P and SINAMICS G120P	D 35
	Cabinet pump, fan, compressor converters	
	Flameproof, Type Series 1PS4, 1PS5, 1MV4 and 1MV5	D 83.2
	Frame Size 355 to 1000, Power Range 80 to 7100 kW	
	Digital: Three-Phase Induction Motors	D 84.1
	Digital: Three-Phase Induction Motors SIMOTICS HV	D 84.3
	High Voltage Three-phase Induction Motors	D 84.9
	SIMOTICS HV Series A-compact PLUS	_
	Digital: Modular Industrial Generators SIGENTICS M	D 85.1
	Technology, HT-direct	D 00.2
	DC Motors	DA 12
	SIMOVERT PM Modular Converter Systems	DA 45
	MICROMASTER 420/430/440 Inverters	DA 51.2
	Low-Voltage Three-Phase-Motors	DA 51.5
	SIMOTOCS S-1FG1 Servo geared motors	D 41
	SIMOTICS Low-Voltage Motors	D 81.1
	SIMOTICS FD Low-Voltage Motors	D 81.8
	LOHER Low-Voltage Motors	D 83.1
	SIMOGEAB Geared Motors	MD 50 1
	SIMOGEAR Electric-monorail geared motors	MD 50.8
	Light-load and heavy-load applications	
	SIMOGEAR Gearboxes with adapter	MD 50.11
	ELENDER Standard Couplings	
	FLENDER High Performance Couplings	MD 10.1
	FLENDER Backlash-free Couplings	MD 10.3
	FLENDER SIP Standard industrial planetary gear units	MD 31.1
	Motion Control	
	SINUMERIK 840 Equipment for Machine Tools	NC 62
	SINUMERIK 808 Equipment for Machine Tools	NC 81.1
	SINUMERIK 828 Equipment for Machine Tools	NC 82
	SIMOTION Equipment for Production Machines	PM 21
	Digital Drive and Control Components for Cranes	UT I

ICII		age/contact
	Process Instrumentation and Analytics	Catalog
	Digital: Field Instruments for Process Automation	FI 01
	Digital: Display Recorders SIREC D	MP 20
	Digital: SIPART Controllers and Software	MP 31
	Products for Weighing Technology	WT 10
	Digital: Process Analytical Instruments	AP 01
	Digital: Process Analytics. Components for	AP 11
	Continuous Emission Monitoring	
	Low-Voltage Power Distribution and	
		11/10
	SENTRON · SIVACON · ALPHA	LV 10
	Devices, Switchboards and Distribution Systems	
	Electrical Components for the Bailway Industry	LV 12
	Power Monitoring Made Simple	LV 14
	Components for Industrial Control Panels according	LV 16
	to UL Standards	
	Digital: Air circuit breakers and molded case circuit breakers with UL certification	LV 18
	3WT Air Circuit Breakers up to 4000 A	LV 35
	3VT Molded Case Circuit Breakers up to 1600 A	LV 36
	Digital: SIVACON System Cubicles, System Lighting and System Air-Conditioning	LV 50
	Digital: ALPHA Distribution Systems	IV 51
	AI PHA FIX Terminal Blocks	LV 52
	SIVACON S4 Power Distribution Boards	LV 56
	SIVACON 8PS Bushar Trunking Systems	LV 70
	Digital: DELTA Switches and Socket Outlate	
	Vacuum Switching Technology and Components for	
	Medium Voltage	16 11.01
	Power Supply	
	SITOP Power supply	KT 10.1
	Safety Integrated	
	Safety Technology for Factory Automation	SI 10
	SIMATIC HMI / PC-based Automation	
	Human Machine Interface Systems/	ST 80/
_	PC-based Automation	ST PC
	SIMATIC Ident	
	Industrial Identification Systems	ID 10
	SIMATIC Industrial Automation Systems	
	Products for Totally Integrated Automation	ST 70
	SIMATIC PCS 7 Process Control System	ST PCS 7
	System components	
	SIMATIC PCS 7 Process Control System	ST PCS 7 T
	Technology components	
	Add-ons for the SIMATIC PCS 7	ST PCS 7 AO
	Process Control System	
	SIMATIC S7-400 advanced controller	ST 400
	SIMATIC NET	
	Industrial Communication	IK PI
	SIRIUS Industrial Controls	
	Digital: SIRIUS Industrial Controls	IC 10

Digital: These catalogs are only available as a PDF.

Siemens Industry Online Support

Digital versions of the catalogs are available on the Internet at: www.siemens.com/lowvoltage/catalogs

Get more information

siemens.com/lowvoltage

Siemens AG Energy Management Low Voltage & Products Postfach 10 09 53 93009 Regensburg Germany

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The information provided in this catalog contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit http://www.siemens.com/industrialsecurity.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

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