

withdrawable circuit breaker 3-pole, size 1 In=1600A to 500V, 50/60Hz AC Icu=66kA at 500V with mechanical lockout device with tripped signaling switch with tripped indicators with guide frame Overcurrent release ETU37WT LSING Setting range according to FS with display Motorized/manual operating mechanism with memory with electrical and mechanical activation Motor and electr. calling for 220...240 V AC, 220...250 V DC Activation solenoid 220...250 V DC without 1st auxiliary release With 2nd auxiliary release Shunt release "F", F2 220...240 V AC, 220...250 V DC switch position-dependent Auxiliary current switch 2 NC+2 NO 2-piece shutter with sealing cap against unauthorized switching off with door sealing frame

Model	
Product brand name	SENTRON
Product designation	3WT air circuit breaker
Design of the product	IEC 60947-2
Design of the operating mechanism	Pushbutton
Type of the driving mechanism	Motorized operating mechanism 220 - 240 V AC / 220 - 250 V DC, activation solenoid 220 - 240 V AC / 220 - 250 V DC
Type of the driving mechanism / motor drive	Yes
Design of the overcurrent release	ETU37WT
General technical data	
Number of poles	3
Field of application	CIRCUIT BREAKER
Size of the circuit-breaker	I
Electrical endurance (switching cycles) / typical	10 000
Usage category	B
Diken-export / Let-through current	DS_3WT8
Country code	EN
circuit-breaker / Design	3WT8
Mechanical service life (switching cycles) / typical	16 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Voltage	
Rated operational voltage Ue / max.	500 V
Rated insulation voltage Ui	1 000 V
Insulation voltage	
• rated value	690 V
• at AC / rated value	1 000 V
Surge voltage resistance / rated value	12 kV

Operating voltage	
<ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value 	500 V
Protection class	
Protection class IP	IP20
Protective function of the overcurrent release	LSING
Current	
rated current I _n	
<ul style="list-style-type: none"> • max. 	1 600 A
<ul style="list-style-type: none"> • at 40 Cel 	1 600 A
<ul style="list-style-type: none"> • at 50 Cel 	1 600 A
Diken-export / Let-through energy	I2T_3WT8
Continuous current / rated value	1 600 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
<ul style="list-style-type: none"> • of the current-dependent overload release / Full-scale value 	1 600 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / initial value 	32 000 A
<ul style="list-style-type: none"> • of instantaneous short-circuit trip unit / Full-scale value 	32 000 A
Short-time withstand current (I _{cw})	
<ul style="list-style-type: none"> • limited to 1 s / rated value 	50 kA
<ul style="list-style-type: none"> • limited to 2 s / rated value 	30 kA
<ul style="list-style-type: none"> • at AC / at 415 V / limited to 0.5 s / rated value 	50 kA
<ul style="list-style-type: none"> • at AC / at 415 V / limited to 3 s / rated value 	25 kA
Main circuit	
Operating frequency / 1 / rated value	50 Hz
Operating current	
<ul style="list-style-type: none"> • at 40 °C / rated value 	1 600 A
<ul style="list-style-type: none"> • at 50 °C / rated value 	1 600 A
<ul style="list-style-type: none"> • at 60 °C / rated value 	1 500 A
<ul style="list-style-type: none"> • at 70 °C / rated value 	1 350 A
Auxiliary circuit	
Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	2
Number of NO contacts / for auxiliary contacts	2
Operating current / of auxiliary contacts / at AC-15 / at 230 V	6 A
Suitability	
Suitability for use	System protection

- Disconnecting means

Yes

Adjustable parameters

Adjustable pick-up value current / of the short-time delayed short-circuit release

- initial value
- Full-scale value

2 000 A

19 200 A

Adjustable pick-up value current / of the current-dependent overload release / initial value

640 A

Product details

Product component

- Trip indicator
- Auxiliary switch
- Voltage trigger
- undervoltage release

No

Yes

No

No

Product function

Product function

- of thermal overload trip unit
- Ground fault protection
- for neutral conductors / Short-circuit and overload proof
- Overload protection

adjustable

Yes

Yes

Yes

Accessories

accessories

Shutter + sealing cap via OFF

Short circuit

Operational short-circuit current breaking capacity (Ics)

- at 240 V / rated value
- at 415 V / rated value
- at 500 V / rated value

66 kA

66 kA

66 kA

Maximum short-circuit current breaking capacity (Icu)

- at 240 V / rated value
- at 400 V / rated value
- at 415 V / rated value
- at 440 V / rated value
- at 480 V / rated value
- at 500 V / rated value

66 kA

66 kA

66 kA

66 kA

66 kA

66 kA

Connections

Arrangement of electrical connectors / for main current circuit

Horizontal on rear (IEC 947-2 standard)

Type of connection, main circuit

REAR HORIZONTAL; STANDARD IEC

Type of electrical connection / for main current circuit	busbar connection
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Mechanical Design

Type of mounting	WITHDRAWABLE UNIT
Mounting type	drawer unit
Mounting position	with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back

Environmental conditions

Ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum • maximum 	-20 °C 70 °C
Ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum • maximum 	-40 °C 80 °C

Certificates

Reference code	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 	Q Q

General Product Approval	Declaration of Conformity	Test Certificates	other
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CCC



EG-Konf.

[Special Test Certificate](#)

[Miscellaneous](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WT8161-6UA34-5AB2>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3WT8161-6UA34-5AB2>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WT8161-6UA34-5AB2

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>