

NON-WITHDRAWABLE CIRCUIT BREAKER 3-POLE, SIZE I  
IN=800A TO 500V, AC50/60HZ ICU=55KA AT 500V WITH  
MECHANICAL RECLOSING LOCK-OUT WITH TRIPPED  
SIGNALLING SWITCH WITH TRIPPED INDICATORS

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	ETU35WT

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 $U_e$ / max.	500 V
Rated insulation voltage $U_i$	1 000 V
Insulation voltage <ul style="list-style-type: none"> <li>• rated value</li> <li>• at AC / rated value</li> </ul>	690 V 1 000 V
Surge voltage resistance / rated value	12 kV
Operating voltage <ul style="list-style-type: none"> <li>• for main current circuit / at AC / at 50 Hz / maximum</li> <li>• for main current circuit / at AC / at 60 Hz / maximum</li> </ul>	500 V 500 V

### Protection class

Protection class IP	IP20
Protective function of the overcurrent release	LSI
<b>Current</b>	
rated current I <sub>n</sub>	
• max.	800 A
• at 40 Cel	800 A
• at 50 Cel	800 A
Diken-export / Let-through energy	I2T_3WT8
Continuous current / rated value	800 A
Derating temperature / for the rated value of the continuous current	50 °C
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	800 A
• of instantaneous short-circuit trip unit / initial value	16 000 A
• of instantaneous short-circuit trip unit / Full-scale value	16 000 A
Short-time current resistance (I <sub>cw</sub> )	
• limited to 0.5 s / rated value	50 kA
• limited to 1 s / rated value	35 kA
• limited to 2 s / rated value	25 kA
• limited to 3 s / rated value	20 kA
<b>Main circuit</b>	
Operating frequency / 1 / rated value	50 Hz
Operating current	
• at 40 °C / rated value	800 A
• at 50 °C / rated value	800 A
• at 60 °C / rated value	800 A
• at 70 °C / rated value	700 A
<b>Auxiliary circuit</b>	
Number of CO contacts / for auxiliary contacts	2
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
<b>Suitability</b>	
Suitability for use	System protection
• Disconnecting means	Yes
<b>Adjustable parameters</b>	

Adjustable pick-up value current / of the short-time delayed short-circuit release	
• initial value	1 000 A
• Full-scale value	9 600 A
Adjustable pick-up value current / of the current-dependent overload release / initial value	320 A

### Product details

Product component	
• Trip indicator	No
• Auxiliary switch	Yes
• Voltage trigger	No
• undervoltage release	No
Product extension / optional / motor drive	No

### Product function

Product function	
• of thermal overload trip unit	adjustable
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	Yes

### Accessories

accessories	No further Z accessories
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### Short circuit

Operational short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	55 kA
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	55 kA
• at 400 V / rated value	55 kA
• at 415 V / rated value	55 kA
• at 440 V / rated value	55 kA
• at 480 V / rated value	55 kA
• at 500 V / rated value	55 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
<b>Type of connectable conductor cross-sections / for auxiliary contacts</b>	

<ul style="list-style-type: none"> <li>• solid</li> </ul>	1x (0.5 ... 2.5) mm <sup>2</sup> ; 1x AWG 14
<ul style="list-style-type: none"> <li>• finely stranded / with core end processing</li> </ul>	2x 1.0 mm <sup>2</sup>
Type of electrical connection / for main current circuit	busbar connection

### Mechanical Design

Type of mounting	fixed mounted
Mounting type	fixed mounting
Mounting position	with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	-20 ... +70 °C -40 ... +80 °C

### Certificates

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

General Product Approval	Declaration of Conformity	Test Certificates	other
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[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=3WT8080-5UA70-0AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WT8080-5UA70-0AA2>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WT8080-5UA70-0AA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WT8080-5UA70-0AA2)

**CAX-Online-Generator**

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

**Tender specifications**

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