

fixed-mounted circuit breaker 3-pole, size 1 In=400A to 500V, 50/60Hz AC Icu=55kA at 500V with mechanical lockout device with tripped signaling switch with tripped indicators Overcurrent release ETU45WT LSIN Setting range according to FS Basic functions with LC display with display With manual operating mechanism with memory with mechanical calling without 1st auxiliary release without 2nd auxiliary release 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 actuating element	Pushbutton
type of the driving mechanism	Manual operating mechanism with stored energy feature, with mechanical closing
type of the driving mechanism motor drive	No
design of the overcurrent release	ETU45WT
General technical data	
number of poles	3
Field of application	CIRCUIT BREAKER
size of the circuit-breaker	I
mechanical service life (operating cycles) typical	10 000
electrical endurance (operating cycles) typical	6 000
utilization category	B
Diken-export Let-through current	DS_3WT8
Country code	EN
circuit-breaker Design	3WT8
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	Q
Voltage	
Rated operational voltage Ue max.	500 V
Rated insulation voltage Ui	1 000 V
<ul style="list-style-type: none"> <li>insulation voltage rated value</li> </ul>	690 V
<ul style="list-style-type: none"> <li>insulation voltage (Ui) at AC rated value</li> </ul>	1 000 V
surge voltage resistance rated value	12 kV
operating voltage	
<ul style="list-style-type: none"> <li>at AC at 50/60 Hz rated value</li> </ul>	500 V
Protection class	
protection class IP	IP20
protection function of the overcurrent release	LSIN
Main circuit	
operating frequency 1 rated value	50 Hz
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
operational current of auxiliary contacts at AC-15 at 230 V	6 A
Suitability	
suitability for use	Line / motor protection
<ul style="list-style-type: none"> <li>disconnecting means</li> </ul>	Yes
Adjustable parameters	
adjustable current response value current of the current-dependent overload release initial value	160 A
Product details	
product component	
<ul style="list-style-type: none"> <li>auxiliary switch</li> </ul>	Yes

• voltage trigger	No
• undervoltage release	No
product extension optional motor drive	Yes

## Product function

product function	
• of thermal overload trip unit	adjustable
• grounding protection	No
• for neutral conductors short-circuit and overload proof	Yes
• overload protection	Yes

## Short circuit

operating 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	Main connection horizontal on rear (IEC 947-2 standard)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	1x (0.5 ... 2.5) mm <sup>2</sup> ; 1x AWG 14
• finely stranded with core end processing	2x 1.0 mm <sup>2</sup>
type of electrical connection for main current circuit	busbar connection

## Mechanical Design

fastening method	fixed mounting
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	
• minimum	-20 °C
• maximum	70 °C
ambient temperature during storage	
• minimum	-40 °C
• maximum	80 °C

## Certificates

reference code	
• according to EN 61346-2	Q
• according to IEC 81346-2	Q

## General Product Approval

## Declaration of Conformity



[Confirmation](#)



Test Certificates	other	Dangerous Good	Environment
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[Special Test Certificate](#)

[Miscellaneous](#)

[Confirmation](#)

[Transport Information](#)

[Environmental Conformations](#)

## Further information

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**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=3WT8040-7AA00-0AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WT8040-7AA00-0AA2>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WT8040-7AA00-0AA2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WT8040-7AA00-0AA2)

**CAX-Online-Generator**

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

**Tender specifications**

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



