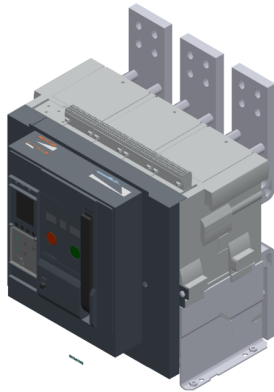


Siemens  
EcoTech



Fixed-mounted circuit breaker IEC 60947-2, frame size 2, 3-poles,  $I_n=2500A$  up to 690V AC 50/60Hz, breaking capacity S  $I_{cu}=66/50kA$  at 500/690V, Trip unit ETU600 LSIG upgrade ready , colordisplay, bluetooth and USB interface, Protection LT, ST, INST, GFx, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), front connection double hole, able to communication, with manual and motorized operating mechanism (M) 208-240 V AC / 220-250 V DC, Storage status and ready-to- close signaling switches, Auxiliary switches 2NO+2NC, Closing coil (CC) 100% OP 208-240 V AC / 220-250 V DC, applicable for continuous duty, without Remote trip alarm reset coil (RR), Undervoltage release (UVR) instantaneous (0,08 s) and short-delay (0,2 s), 208-240 V AC / 220-250 V DC, Shunt trip (ST) 5% OP 208-240 V AC / 220-250 V DC, for momentary duty, Option S07 = Locking provision against unauthorized closing Secured Open; for padlock device Padlocks are not included.

Model	
product brand name	SENTRON
product designation	Air circuit breaker
suitability for use	circuit breaker
size of the circuit-breaker	II
number of poles	3
position / of neutral conductor	no internal N-conductor
fastening method	fixed-mounted circuit breakers
design of the product	AC application
type of the driving mechanism	manual operating mechanism/spring charging motor with spring charge signaling switch
design of the electronic trip unit	ETU600 LSIG
Weight	84.903 kg
Net Weight	69.903 kg
General technical data	
insulation voltage / rated value	1000 V
operating voltage / at AC / at 50/60 Hz / rated value	690 V
power loss [W] / maximum	270 W
Current	
continuous current / rated value / maximum	2500 A
continuous current / rated value	2500 A
operational current	
• at 40 °C / rated value	2500 A
• at 45 °C / rated value	2500 A
• at 50 °C / rated value	2500 A
• at 55 °C / rated value	2500 A
• at 60 °C / rated value	2500 A
• at 65 °C / rated value	2500 A
• at 70 °C / rated value	2500 A
Switching capacity and short-time withstand current, according to IEC 60947-2	
switching capacity class of the circuit breaker	S
maximum short-circuit current breaking capacity ( $I_{cu}$ )	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
operating short-circuit current breaking capacity ( $I_{cs}$ )	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA

short-circuit current making capacity (I <sub>cm</sub> )	
<ul style="list-style-type: none"> <li>at 500 V / rated value</li> <li>at 690 V / rated value</li> </ul>	145 kA 105 kA
short-time withstand current (I <sub>cw</sub> ) / at 500 V AC	
<ul style="list-style-type: none"> <li>for 0.5 s / rated value</li> <li>for 1 s / rated value</li> <li>for 2 s / rated value</li> <li>for 3 s / rated value</li> </ul>	66 kA 66 kA 66 kA 55 kA
short-time withstand current (I <sub>cw</sub> ) / at 690 V AC	
<ul style="list-style-type: none"> <li>for 0.5 s / rated value</li> <li>for 1 s / rated value</li> <li>for 2 s / rated value</li> <li>for 3 s / rated value</li> </ul>	50 kA 50 kA 50 kA 50 kA

### Electronic release unit

product feature	
<ul style="list-style-type: none"> <li>upgradable</li> <li>Bluetooth and USB interface</li> <li>decoder for basic protection functions</li> <li>display and function keys</li> <li>SENTRON powerconfig configuration software</li> </ul>	Yes Yes Yes Yes Yes

### Basic protection functions

product feature / for L-tripping	
<ul style="list-style-type: none"> <li>can be switched on/off</li> <li>selectable characteristic function</li> <li>decoder and infinite adjustability are selectable with eSet</li> </ul>	Yes Yes Yes
set values setting current (I <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1
reference value setting current (I <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	x I <sub>n</sub>
set values delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	1;2;5;8;10;14;17;21;25
reference value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic	s
set values setting current (I <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic / for eSet	0.4-1;0.001
adjustable absolute value setting current (I <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic / for eSet	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	1000 A 2500 A
set values delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic / for eSet	0.5-30;0.001
set values setting current (I <sub>r</sub> ) / for L-tripping / with I <sub>4t</sub> characteristic / for eSet	0.4-1;0.001
set values delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>4t</sub> characteristic / for eSet	0.5-5;0.001
adjustable absolute value setting current (I <sub>r</sub> ) / for L-tripping / with I <sub>4t</sub> characteristic / for eSet	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	1000 A 2500 A
<b>L: Overload protection N-conductor</b>	
product feature / with neutral conductor protection / can be switched on/off	Yes
setting values setting current (I <sub>nN</sub> ) / for N-tripping	0.2-2;0.001
reference value setting current (I <sub>nN</sub> ) / for N-tripping	x I <sub>n</sub>
adjustable setting current (I <sub>nN</sub> ) / for N-tripping	
<ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>	500 A 5000 A
<b>S: delayed short-circuit protection ST</b>	
product feature / for S-tripping	
<ul style="list-style-type: none"> <li>independent of direction / can be switched on/off</li> <li>independent of direction / selectable characteristic function</li> <li>decoder and infinite adjustability are selectable with eSet</li> </ul>	Yes Yes Yes
<b>S: delayed short-circuit protection ST, settings values I<sub>0t</sub></b>	
set values setting current (I <sub>sd</sub> ) / for S-tripping / with I <sub>0t</sub>	1.5;2;2.5;3;4;5;6;8;10

characteristic	
reference value setting current (I <sub>sd</sub> ) / for S-tripping / with I0t characteristic	x I <sub>r</sub>
set values delay time (t <sub>sd</sub> ) / for S-tripping / with I0t characteristic	0.08;0.15;0.22;0.3;0.4
reference value delay time (t <sub>sd</sub> ) / for S-tripping / with I0t characteristic	s
set values setting current (I <sub>sd</sub> ) / for S-tripping / with I0t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (I <sub>sd</sub> )	
• for S-tripping / with I0t characteristic / for eSet / independent of direction / minimum	1500 A
• at 500 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	52.8 kA
• at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	40 kA
set values delay time (t <sub>sd</sub> ) / for S-tripping / with I0t characteristic / for eSet / independent of direction	0.02-0.4;0.001
<b>S: delayed short-circuit protection ST, settings values I2t</b>	
set values setting current (I <sub>sd</sub> ) / for S-tripping / with I2t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (I <sub>sd</sub> ) / for S-tripping / with I2t characteristic	x I <sub>r</sub>
set values delay time (t <sub>sd</sub> ) / for S-tripping / with I2t characteristic	0.1;0.2;0.3;0.4
set values setting current (I <sub>sd</sub> ) / for S-tripping / with I2t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (I <sub>sd</sub> )	
• for S-tripping / with I2t characteristic / for eSet / independent of direction / minimum	1500 A
• at 500 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	52.8 kA
• at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	40 kA
set values delay time (t <sub>sd</sub> ) / for S-tripping / with I2t characteristic / for eSet / independent of direction	0.02-0.4; 0.001
product feature / for I-tripping	
• can be switched on/off	Yes
• decoder and infinite adjustability are selectable (with eSet)	Yes
set values setting current (I <sub>i</sub> ) / for I-tripping	1.5;2;3;4;6;8;10;12;15
reference value setting current (I <sub>i</sub> ) / for I-tripping	x I <sub>n</sub>
tripping factor setting current (I <sub>imax</sub> ) / for I-tripping	0.8
reference value setting current (I <sub>imax</sub> ) / for I-tripping	x I <sub>cs</sub>
set values setting current (I <sub>i</sub> ) / for I-tripping / for eSet	1.5-15;0.001
adjustable absolute value setting current (I <sub>i</sub> )	
• for I-tripping / for eSet / minimum	3750 A
• at 500 V / for I-tripping / for eSet / maximum	52.8 kA
• at 690 V / for I-tripping / for eSet / maximum	40 kA
<b>G: ground fault GF</b>	
product feature / for G-tripping	
• can be switched on/off	Yes
• selectable characteristic function	Yes
set values setting current (I <sub>g</sub> ) / for G-tripping / with I0t characteristic	0.04-0.8;0.001
reference value setting current (I <sub>g</sub> ) / for G-tripping / with I0t characteristic	x I <sub>n</sub>
set values delay time (t <sub>g</sub> ) / for G-tripping / with I0t characteristic	0.02-30;0.001
reference value delay time (t <sub>g</sub> ) / for G-tripping / with I0t characteristic	s
set values setting current (I <sub>g</sub> ) / for G-tripping / with I2t characteristic	0.04-0.8;0.001
reference value setting current (I <sub>g</sub> ) / for G-tripping / with I2t characteristic	x I <sub>n</sub>
set values delay time (t <sub>g</sub> ) / for G-tripping / with I2t characteristic	0.02-30; 0.001
reference value delay time (t <sub>g</sub> ) / for G-tripping / with I2t characteristic	s
<b>Further protective functions</b>	
protection function	

• maintenance mode DAS+	Yes
<b>Measuring functions</b>	
measurement function	
• current measurement	Yes
<b>Communication</b>	
communication function / prepared for communication (Ready4COM)	Yes
communication function	Yes
<b>Service Life</b>	
mechanical service life (operating cycles)	
• without support / typical	10000
• with support / typical	20000
electrical endurance (operating cycles)	
• at 690 V / without support / typical	7500
• at 690 V / with support / typical	20000
<b>Dimensions</b>	
height	437 mm
width	460 mm
depth	357 mm
<b>Main connection</b>	
arrangement of electrical connectors / for main current circuit	front main circuit connection, double hole
<b>Auxiliary circuit</b>	
design of the auxiliary switch	2 NO + 2 NC
number of NC contacts / for auxiliary contacts	2
number of NO contacts / for auxiliary contacts	2
number of CO contacts / for auxiliary contacts	0
<b>Internal accessories</b>	
product component	
• undervoltage release	Yes
• voltage trigger	Yes
• trip indicator	Yes
• motor drive	Yes
<b>Environmental conditions</b>	
protection class IP / on the front	IP20
ambient temperature / during operation	
• minimum	-40 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C
<b>Environmental footprint</b>	
Siemens Eco Profile (SEP)	Siemens EcoTech
<b>Certificates</b>	
reference code	
• according to IEC 81346-2	Q
<b>General Product Approval</b>	EMV



Radio Equipment  
Type Approval Certificate

Test Certificates

Maritime application

[Miscellaneous](#)

[Miscellaneous](#)

[Special Test Certificate](#)



Maritime application	other	Dangerous goods
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[Confirmation](#)



[Manufacturer Declaration](#)

[Dangerous goods information](#)

Dangerous goods	Environment
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[Transport Information](#)



### Further information

Information on the packaging

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

Industry Mall (Online ordering system)

[https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1225-3CF03-4EQ8-Z\\_S07](https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1225-3CF03-4EQ8-Z_S07)

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

[https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-3CF03-4EQ8-Z\\_S07](https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-3CF03-4EQ8-Z_S07)

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WA1225-3CF03-4EQ8-Z\\_S07](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1225-3CF03-4EQ8-Z_S07)

CAX-Online-Generator

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

Information- and Downloadcenter (catalogues, leaflets,...)

<http://www.siemens.com/energy-automation>

