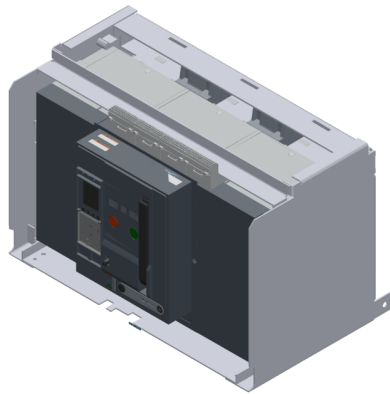


Siemens
EcoTech



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 3, 3-poles, $I_n=4000\text{A}$ up to 690V AC 50/60Hz, breaking capacity H $I_{cu}=100/85\text{kA}$ at 500/690V, Trip unit ETU600 LSIG upgrade ready, color display, bluetooth and USB interface, Protection LT, ST, INST, GFx, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection horizontal, guide frame with shutter and w/o position signalling switch, with internal voltage tap on lower stab of circuit breaker, with voltage tap module VTM680 and power supply of ETU600, able to communication, integrated metering type PMF-1 Energy Efficiency, Voltage, Active energy E_a with manual and motorized operating mechanism (M) 110-127 V AC / 110-125 V DC, Storage status and ready-to-close signaling switches, Auxiliary switches 4NO+4NC, Closing coil (CC) 100% OP 110-127 V AC / 110-125 V DC, applicable for continuous duty, without Remote trip alarm reset coil (RR), without 2nd shunt trip, Shunt trip (ST) 100% OP 110-127 V AC / 110-125 V DC, suitable for continuous duty,

Model	
product brand name	SENTRON
product designation	Air circuit breaker
suitability for use	circuit breaker
size of the circuit-breaker	III
number of poles	3
position / of neutral conductor	no internal N-conductor
fastening method	withdrawable circuit breaker
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	172.02 kg
Net Weight	154.02 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	810 W
Current	
continuous current / rated value / maximum	4000 A
continuous current / rated value	4000 A
operational current	
• at 40 °C / rated value	4000 A
• at 45 °C / rated value	4000 A
• at 50 °C / rated value	4000 A
• at 55 °C / rated value	4000 A
• at 60 °C / rated value	4000 A
• at 65 °C / rated value	4000 A
• at 70 °C / rated value	4000 A
Switching capacity and short-time withstand current, according to IEC 60947-2	
switching capacity class of the circuit breaker	H
maximum short-circuit current breaking capacity (I_{cu})	
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 kA
operating short-circuit current breaking capacity (I_{cs})	
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 kA

short-circuit current making capacity (I _{cm})	
<ul style="list-style-type: none"> at 500 V / rated value at 690 V / rated value 	<p>220 kA</p> <p>187 kA</p>
short-time withstand current (I _{cw}) / at 500 V AC	
<ul style="list-style-type: none"> for 0.5 s / rated value for 1 s / rated value for 2 s / rated value for 3 s / rated value 	<p>100 kA</p> <p>100 kA</p> <p>100 kA</p> <p>100 kA</p>
short-time withstand current (I _{cw}) / at 690 V AC	
<ul style="list-style-type: none"> for 0.5 s / rated value for 1 s / rated value for 2 s / rated value for 3 s / rated value 	<p>85 kA</p> <p>85 kA</p> <p>85 kA</p> <p>85 kA</p>

Electronic release unit

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

position / for voltage tap	bottom
----------------------------	--------

Basic protection functions

product feature / for L-tripping	
<ul style="list-style-type: none"> can be switched on/off selectable characteristic function decoder and infinite adjustability are selectable with eSet 	<p>Yes</p> <p>Yes</p> <p>Yes</p>
set values setting current (I _r) / for L-tripping / with I _{2t} characteristic	0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1
reference value setting current (I _r) / for L-tripping / with I _{2t} characteristic	x I _n
set values delay time (t _r) / for L-tripping / with I _{2t} characteristic	1;2;5;8;10;14;17;21;25
reference value delay time (t _r) / for L-tripping / with I _{2t} characteristic	s
set values setting current (I _r) / for L-tripping / with I _{2t} characteristic / for eSet	0.4-1;0.001
adjustable absolute value setting current (I _r) / for L-tripping / with I _{2t} characteristic / for eSet	
<ul style="list-style-type: none"> minimum maximum 	<p>1600 A</p> <p>4000 A</p>
set values delay time (t _r) / for L-tripping / with I _{2t} characteristic / for eSet	0.5-30;0.001
set values setting current (I _r) / for L-tripping / with I _{4t} characteristic / for eSet	0.4-1;0.001
set values delay time (t _r) / for L-tripping / with I _{4t} characteristic / for eSet	0.5-5;0.001
adjustable absolute value setting current (I _r) / for L-tripping / with I _{4t} characteristic / for eSet	
<ul style="list-style-type: none"> minimum maximum 	<p>1600 A</p> <p>4000 A</p>

L: Overload protection N-conductor

product feature / with neutral conductor protection / can be switched on/off	Yes
setting values setting current (I _{nN}) / for N-tripping	0.2-2;0.001
reference value setting current (I _{nN}) / for N-tripping	x I _n
adjustable setting current (I _{nN}) / for N-tripping	
<ul style="list-style-type: none"> minimum maximum 	<p>800 A</p> <p>8000 A</p>

S: delayed short-circuit protection ST

product feature / for S-tripping	
<ul style="list-style-type: none"> independent of direction / can be switched on/off independent of direction / selectable characteristic function decoder and infinite adjustability are selectable with eSet 	<p>Yes</p> <p>Yes</p> <p>Yes</p>

S: delayed short-circuit protection ST, settings values I_{0t}

set values setting current (I _{sd}) / for S-tripping / with I0t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (I _{sd}) / for S-tripping / with I0t characteristic	x I _r
set values delay time (t _{sd}) / for S-tripping / with I0t characteristic	0.08;0.15;0.22;0.3;0.4
reference value delay time (t _{sd}) / for S-tripping / with I0t characteristic	s
set values setting current (I _{sd}) / for S-tripping / with I0t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (I _{sd})	
• for S-tripping / with I0t characteristic / for eSet / independent of direction / minimum	2400 A
• at 500 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	80 kA
• at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	68 kA
set values delay time (t _{sd}) / for S-tripping / with I0t characteristic / for eSet / independent of direction	0.02-0.4;0.001
S: delayed short-circuit protection ST, settings values I2t	
set values setting current (I _{sd}) / for S-tripping / with I2t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (I _{sd}) / for S-tripping / with I2t characteristic	x I _r
set values delay time (t _{sd}) / for S-tripping / with I2t characteristic	0.1;0.2;0.3;0.4
set values setting current (I _{sd}) / for S-tripping / with I2t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (I _{sd})	
• for S-tripping / with I2t characteristic / for eSet / independent of direction / minimum	2400 A
• at 500 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	80 kA
• at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	68 kA
set values delay time (t _{sd}) / 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 _i) / for I-tripping	1.5;2;3;4;6;8;10;12;15
reference value setting current (I _i) / for I-tripping	x I _n
tripping factor setting current (I _{imax}) / for I-tripping	0.8
reference value setting current (I _{imax}) / for I-tripping	x I _{cs}
set values setting current (I _i) / for I-tripping / for eSet	1.5-15;0.001
adjustable absolute value setting current (I _i)	
• for I-tripping / for eSet / minimum	6000 A
• at 500 V / for I-tripping / for eSet / maximum	80 kA
• at 690 V / for I-tripping / for eSet / maximum	68 kA
G: ground fault GF	
product feature / for G-tripping	
• can be switched on/off	Yes
• selectable characteristic function	Yes
set values setting current (I _g) / for G-tripping / with I0t characteristic	0.075-0.5;0.001
reference value setting current (I _g) / for G-tripping / with I0t characteristic	x I _n
set values delay time (t _g) / for G-tripping / with I0t characteristic	0.02-30;0.001
reference value delay time (t _g) / for G-tripping / with I0t characteristic	s
set values setting current (I _g) / for G-tripping / with I2t characteristic	0.075-0.5;0.001
reference value setting current (I _g) / for G-tripping / with I2t characteristic	x I _n
set values delay time (t _g) / for G-tripping / with I2t characteristic	0.02-30; 0.001
reference value delay time (t _g) / for G-tripping / with I2t characteristic	s

Further protective functions

protection function	
<ul style="list-style-type: none"> ● maintenance mode DAS+ 	Yes
Measuring functions	
type of measurement function	PMF-I
measurement function	
<ul style="list-style-type: none"> ● type according to IEC 61557-12 	Yes
<ul style="list-style-type: none"> ● current measurement 	Yes
<ul style="list-style-type: none"> ● measurement of voltage and active energy 	Yes
Communication	
communication function / prepared for communication (Ready4COM)	Yes
communication function	Yes
Service Life	
mechanical service life (operating cycles)	
<ul style="list-style-type: none"> ● without support / typical 	7500
<ul style="list-style-type: none"> ● with support / typical 	15000
electrical endurance (operating cycles)	
<ul style="list-style-type: none"> ● at 690 V / without support / typical 	2000
<ul style="list-style-type: none"> ● at 690 V / with support / typical 	15000
Dimensions	
height	468 mm
width	704 mm
depth	471 mm
Main connection	
arrangement of electrical connectors / for main current circuit	main connection on the rear, horizontal
Auxiliary circuit	
design of the auxiliary switch	4 NO + 4 NC
number of NC contacts / for auxiliary contacts	4
number of NO contacts / for auxiliary contacts	4
number of CO contacts / for auxiliary contacts	0
Internal accessories	
product component	
<ul style="list-style-type: none"> ● undervoltage release 	No
<ul style="list-style-type: none"> ● voltage trigger 	Yes
<ul style="list-style-type: none"> ● trip indicator 	Yes
<ul style="list-style-type: none"> ● motor drive 	Yes
Environmental conditions	
protection class IP / on the front	IP20
ambient temperature / during operation	
<ul style="list-style-type: none"> ● minimum 	-40 °C
<ul style="list-style-type: none"> ● maximum 	70 °C
ambient temperature / during storage	
<ul style="list-style-type: none"> ● minimum 	-40 °C
<ul style="list-style-type: none"> ● maximum 	80 °C
Environmental footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
Certificates	
reference code	
<ul style="list-style-type: none"> ● according to IEC 81346-2 	Q
General Product Approval	EMV



Radio Equipment Type Approval Certificate

Test Certificates

Miscellaneous



Miscellaneous

FCC

Miscellaneous

Special Test Certificate

Maritime application

other



other

Dangerous goods

Environment

[Confirmation](#)

[Manufacturer Declaration](#)

[Transport Information](#)

[Dangerous goods information](#)



Environment

Siemens EcoTech



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=3WA1340-5EF32-7DA3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1340-5EF32-7DA3>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1340-5EF32-7DA3

CAX-Online-Generator

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

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

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

