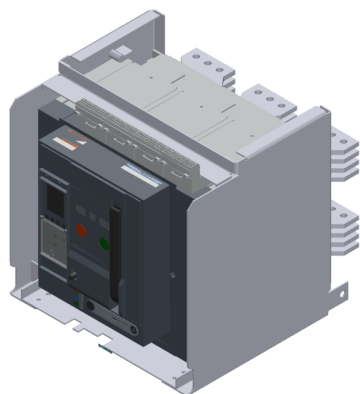




withdrawable circuit breaker, with guide frame, IEC 60947-2, size 2, 3-pole, $I_n=4000$ A up to 690 V AC 50/60 Hz, breaking capacity S $I_{cu}=66/50$ kA at 500/690 V, tripping unit ETU600 LSI upgradeable, color display, Bluetooth, USB interface, basic protection LT, ST, INST, neutral conductor protection requires an external neutral point current sensor, trip alarm switch (1 x CO), connection at rear horizontal guide frame with shutter, without position signaling switch, without Com & metering function Manual operating mechanism with mechanical closing, without Spring charging motor, Ready-to-close signal. switch, Auxiliary switches 2NO+2NC, without Closing coil (CC), manual operating mechanism with mechanical closing, without Remote trip alarm reset coil (RR), without 2nd shunt trip, without 1st Shunt trip Option D80 = Circuit breaker without Bluetooth functionality Option T40 = Door sealing frame IP41

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	withdrawable circuit breaker
design of the product	AC application
type of the driving mechanism	manual operating mechanism with mechanical or electrical closing
design of the electronic trip unit	ETU600 LSI
Weight	111.415 kg
Net Weight	94.415 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	1170 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 55 °C / rated value	3750 A
• at 60 °C / rated value	3620 A
• at 70 °C / rated value	3360 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_{cm})	
• at 500 V / rated value	145 kA
• at 690 V / rated value	105 kA
short-time withstand current (I_{cw}) / at 500 V AC	
• for 0.5 s / rated value	66 kA
• for 1 s / rated value	66 kA
• for 2 s / rated value	66 kA

• for 3 s / rated value	66 kA
short-time withstand current (I_{cw}) / at 690 V AC	
• for 0.5 s / rated value	50 kA
• for 1 s / rated value	50 kA
• for 2 s / rated value	50 kA
• for 3 s / rated value	50 kA
Electronic release unit	
product feature	
• upgradable	Yes
• Bluetooth and USB interface	Yes
• decoder for basic protection functions	Yes
• display and function keys	Yes
• SENTRON powerconfig configuration software	Yes
Basic protection functions	
product feature / for L-tripping	
• can be switched on/off	Yes
• selectable characteristic function	Yes
• decoder and infinite adjustability are selectable with eSet	Yes
set values setting current (I_r) / for L-tripping / with I2t 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 I2t characteristic	x I_n
set values delay time (t_r) / for L-tripping / with I2t characteristic	1;2;5;8;10;14;17;21;25
reference value delay time (t_r) / for L-tripping / with I2t characteristic	s
set values setting current (I_r) / for L-tripping / with I2t characteristic / for eSet	0.4-1;0.001
adjustable absolute value setting current (I_r) / for L-tripping / with I2t characteristic / for eSet	
• minimum	1600 A
• maximum	4000 A
set values delay time (t_r) / for L-tripping / with I2t characteristic / for eSet	0.5-30;0.001
set values setting current (I_r) / for L-tripping / with I4t characteristic / for eSet	0.4-1;0.001
set values delay time (t_r) / for L-tripping / with I4t characteristic / for eSet	0.5-5;0.001
adjustable absolute value setting current (I_r) / for L-tripping / with I4t characteristic / for eSet	
• minimum	1600 A
• maximum	4000 A
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	
• minimum	800 A
• maximum	8000 A
S: delayed short-circuit protection ST	
product feature / for S-tripping	
• independent of direction / can be switched on/off	Yes
• independent of direction / selectable characteristic function	Yes
• decoder and infinite adjustability are selectable with eSet	Yes
S: delayed short-circuit protection ST, settings values I0t	
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	52.8 kA
• at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	40 kA
set values delay time (tsd) / 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 (tsd) / 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	52.8 kA
• at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	40 kA
set values delay time (tsd) / 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	52.8 kA
• at 690 V / for I-tripping / for eSet / maximum	40 kA
G: ground fault GF	
product feature / for G-tripping	
• selectable characteristic function	No
Further protective functions	
protection function	
• maintenance mode DAS+	Yes
Measuring functions	
measurement function	
• current measurement	Yes
Communication	
communication function	No
Service Life	
mechanical service life (operating cycles)	
• without support / typical	10000
• with support / typical	20000
electrical endurance (operating cycles)	
• at 690 V / without support / typical	2000
• at 690 V / with support / typical	20000
Dimensions	
height	468 mm
width	460 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	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

Internal accessories

product component	
• undervoltage release	No
• voltage trigger	No
• trip indicator	Yes
• motor drive	No

Environmental conditions

protection class IP / on the front	IP41
ambient temperature / during operation	
• minimum	-40 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C

Approvals / Certificates

General Product Approval	EMV
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Radio Equipment Type Approval Certificate	Test Certificates
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[Miscellaneous](#)



[Miscellaneous](#)

[FCC](#)

[Special Test Certificate](#)

[Miscellaneous](#)

Maritime application	other
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[Manufacturer Declaration](#)

other	Dangerous goods	Environment
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[Confirmation](#)



[Transport Information](#)

[Dangerous goods information](#)



Environment



Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1240-3AE32-0AA0-Z D80+T40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1240-3AE32-0AA0-Z D80+T40>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1240-3AE32-0AA0-Z D80+T40

CAX-Online-Generator

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

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

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

