

Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 2, 3-poles, $I_n=3200\text{A}$ up to 690V AC 50/60Hz, breaking capacity S $I_{cu}=66/50\text{kA}$ at 500/690V, Trip unit ETU600 LSI upgrade ready, color display, bluetooth and USB interface, Protection LT, ST, INST, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection horizontal, guide frame with shutter and position signal. switch (3xW), able to communication, Manual operating mechanism with mechanical closing, without Spring charging motor, Ready-to-close signal. switch, Auxiliary switches 2NO+2NC, Closing coil (CC) 100% OP 208-240 V AC / 220-250 V DC, applicable for continuous duty, Remote trip alarm reset (RR) 208-240 V AC / 220-250 V DC for momentary duty, Undervoltage release (UVR) instantaneous (0,08 s) and short-delay (0,2 s), 24 V DC, without 1st Shunt trip

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	108.897 kg
Net Weight	95.897 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	710 W
Current	
continuous current / rated value / maximum	3200 A
continuous current / rated value	3200 A
operational current	
• at 40 °C / rated value	3200 A
• at 45 °C / rated value	3200 A
• at 50 °C / rated value	3200 A
• at 55 °C / rated value	3200 A
• at 60 °C / rated value	3020 A
• at 70 °C / rated value	2870 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})	

<ul style="list-style-type: none"> • at 500 V / rated value • at 690 V / rated value 	<p>145 kA</p> <p>105 kA</p>
<p>short-time withstand current (I_{cw}) / at 500 V AC</p> <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>66 kA</p> <p>66 kA</p> <p>66 kA</p> <p>66 kA</p>
<p>short-time withstand current (I_{cw}) / at 690 V AC</p> <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>50 kA</p> <p>50 kA</p> <p>50 kA</p> <p>50 kA</p>
Electronic release unit	
<p>product feature</p> <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>
Basic protection functions	
<p>product feature / for L-tripping</p> <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>
<p>set values setting current (I_r) / for L-tripping / with I_{2t} characteristic</p>	<p>0.5; 0.6; 0.7; 0.75; 0.8; 0.85; 0.9; 0.95; 1</p>
<p>reference value setting current (I_r) / for L-tripping / with I_{2t} characteristic</p>	<p>x I_n</p>
<p>set values delay time (t_r) / for L-tripping / with I_{2t} characteristic</p>	<p>1;2;5;8;10;14;17;21;25</p>
<p>reference value delay time (t_r) / for L-tripping / with I_{2t} characteristic</p>	<p>s</p>
<p>set values setting current (I_r) / for L-tripping / with I_{2t} characteristic / for eSet</p>	<p>0.4-1;0.001</p>
<p>adjustable absolute value setting current (I_r) / for L-tripping / with I_{2t} characteristic / for eSet</p> <ul style="list-style-type: none"> • minimum • maximum 	<p>1280 A</p> <p>3200 A</p>
<p>set values delay time (t_r) / for L-tripping / with I_{2t} characteristic / for eSet</p>	<p>0.5-30;0.001</p>
<p>set values setting current (I_r) / for L-tripping / with I_{4t} characteristic / for eSet</p>	<p>0.4-1;0.001</p>
<p>set values delay time (t_r) / for L-tripping / with I_{4t} characteristic / for eSet</p>	<p>0.5-5;0.001</p>
<p>adjustable absolute value setting current (I_r) / for L-tripping / with I_{4t} characteristic / for eSet</p> <ul style="list-style-type: none"> • minimum • maximum 	<p>1280 A</p> <p>3200 A</p>
L: Overload protection N-conductor	
<p>product feature / with neutral conductor protection / can be switched on/off</p>	<p>Yes</p>
<p>setting values setting current (I_{nN}) / for N-tripping</p>	<p>0.2-2;0.001</p>
<p>reference value setting current (I_{nN}) / for N-tripping</p>	<p>x I_n</p>
<p>adjustable setting current (I_{nN}) / for N-tripping</p> <ul style="list-style-type: none"> • minimum • maximum 	<p>640 A</p> <p>6400 A</p>
S: delayed short-circuit protection ST	
<p>product feature / for S-tripping</p> <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}) <ul style="list-style-type: none"> • for S-tripping / with I0t characteristic / for eSet / independent of direction / minimum • at 500 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum • at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum 	1920 A 52.8 kA 40 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}) <ul style="list-style-type: none"> • for S-tripping / with I2t characteristic / for eSet / independent of direction / minimum • at 500 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum • at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum 	1920 A 52.8 kA 40 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 <ul style="list-style-type: none"> • can be switched on/off • decoder and infinite adjustability are selectable (with eSet) 	Yes 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) <ul style="list-style-type: none"> • for I-tripping / for eSet / minimum • at 500 V / for I-tripping / for eSet / maximum • at 690 V / for I-tripping / for eSet / maximum 	4800 A 52.8 kA 40 kA
G: ground fault GF	
product feature / for G-tripping <ul style="list-style-type: none"> • selectable characteristic function 	No
Further protective functions	
protection function <ul style="list-style-type: none"> • maintenance mode DAS+ 	Yes
Measuring functions	
measurement function <ul style="list-style-type: none"> • current measurement 	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 	10000

<ul style="list-style-type: none"> with support / typical 	20000
electrical endurance (operating cycles)	
<ul style="list-style-type: none"> at 690 V / without support / typical 	4000
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> undervoltage release 	Yes
<ul style="list-style-type: none"> voltage trigger 	No
<ul style="list-style-type: none"> trip indicator 	Yes
<ul style="list-style-type: none"> motor drive 	No

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

Certificates	
reference code / according to IEC 81346-2	Q

Approvals / Certificates

Environment	General Product Approval
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[Confirmation](#)

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

[Industry Canada \(IC\)](#)

Radio Equipment Type Approval Certificate	Test Certificates	Maritime application
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[Miscellaneous](#)

[FCC](#)

[Miscellaneous](#)

[Special Test Certificate](#)



Maritime application	other
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[Confirmation](#)

[Manufacturer Declaration](#)

Dangerous goods

[Transport Information](#)

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>

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1232-3CE62-0JL0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WA1232-3CE62-0JL0>

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

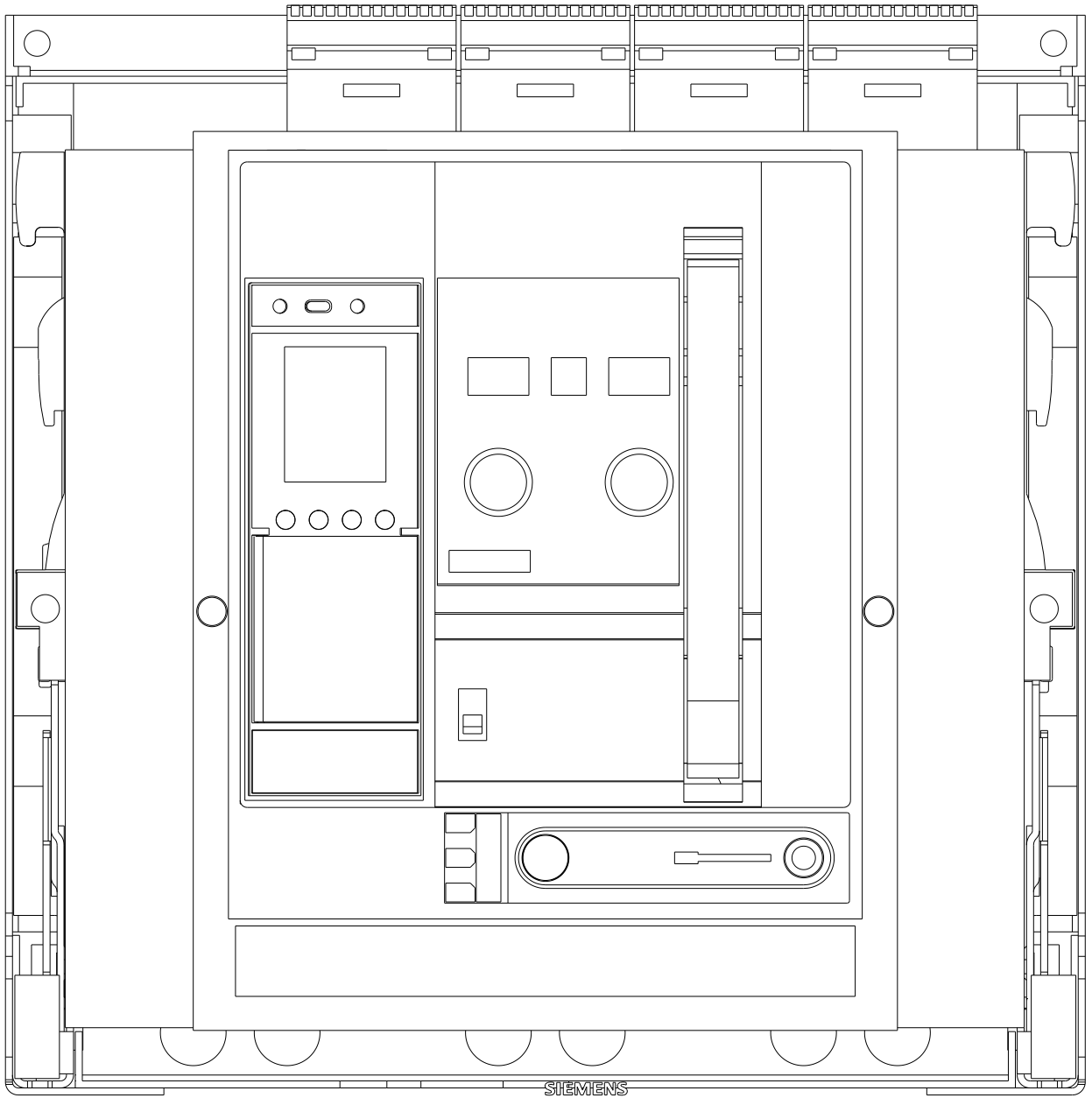
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1232-3CE62-0JL0

CAX-Online-Generator

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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