SIEMENS

Data sheet 3WA1112-5AF62-0AA0

withdrawable circuit breaker, with guide frame, IEC 60947-2, size 1, 3-pole, In=1250 A up to 690 V AC 50/60 Hz, breaking capacity H Icu=100/66 kA at 500/690 V, ETU600 LSIG electronic trip unit upgradeable, color display, Bluetooth, USB interface, basic protection LT, ST, INST, GFx, neutral conductor protection requires an external neutral point current sensor, trip alarm switch (1x CO), connection at rear horizontal guide frame with shutter, 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

Model	
product brand name	SENTRON
product designation	Air circuit breaker
suitability for use	circuit breaker
size of the circuit-breaker	I
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 LSIG
Weight	83.008 kg
Net Weight	66.008 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	205 W
Current	
continuous current / rated value / maximum	1250 A
continuous current / rated value	1250 A
operational current	
• at 40 °C / rated value	1250 A
• at 45 °C / rated value	1250 A
• at 50 °C / rated value	1250 A
• at 55 °C / rated value	1250 A
• at 60 °C / rated value	1250 A
• at 70 °C / rated value	1210 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 (Icu)	
• at 500 V / rated value	100 kA
• at 690 V / rated value	66 kA
operating short-circuit current breaking capacity (Ics)	
• at 500 V / rated value	100 kA
• at 690 V / rated value	66 kA
short-circuit current making capacity (Icm)	

● at 500 V / rated value	220 kA
● at 690 V / rated value	145 kA
short-time withstand current (Icw) / at 500 V AC	
● for 0.5 s / rated value	85 kA
● for 1 s / rated value	85 kA
● for 2 s / rated value	70 kA
● for 3 s / rated value	60 kA
short-time withstand current (Icw) / at 690 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	60 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 (Ir) / 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 (Ir) / for L-tripping / with I2t characteristic	x In
set values delay time (tr) / for L-tripping / with I2t characteristic	1;2;5;8;10;14;17;21;25
reference value delay time (tr) / for L-tripping / with I2t characteristic	s
set values setting current (Ir) / for L-tripping / with I2t characteristic / for eSet	0.4-1;0.001
adjustable absolute value setting current (Ir) / for L-tripping / with I2t characteristic / for eSet	
● minimum	500 A
● maximum	1250 A
set values delay time (tr) / for L-tripping / with I2t characteristic / for eSet	0.5-30;0.001
set values setting current (Ir) / for L-tripping / with I4t characteristic / for eSet	0.4-1;0.001
set values delay time (tr) / for L-tripping / with I4t characteristic / for eSet	0.5-5;0.001
adjustable absolute value setting current (Ir) / for L-tripping / with I4t characteristic / for eSet	
● minimum	500 A
● maximum	1250 A
L: Overload protection N-conductor	
product feature / with neutral conductor protection / can be switched on/off	Yes
setting values setting current (InN) / for N-tripping	0.2-2;0.001
reference value setting current (InN) / for N-tripping	x In
adjustable setting current (InN) / for N-tripping	
● minimum	250 A
● maximum	2500 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 (Isd) / for S-tripping / with I0t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (Isd) / for S-tripping / with I0t characteristic	x Ir
set values delay time (tsd) / for S-tripping / with I0t characteristic	0.08;0.15;0.22;0.3;0.4
reference value delay time (tsd) / for S-tripping / with I0t characteristic	s
set values setting current (Isd) / for S-tripping / with I0t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (Isd)	
● for S-tripping / with I0t characteristic / for eSet / independent of direction / minimum	750 A
● at 500 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	68 kA
● at 690 V / for S-tripping / with I0t characteristic / for eSet / independent of direction / maximum	52.8 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 (Isd) / for S-tripping / with I2t characteristic	1.5;2;2.5;3;4;5;6;8;10
reference value setting current (Isd) / for S-tripping / with I2t characteristic	x Ir
set values delay time (tsd) / for S-tripping / with I2t characteristic	0.1;0.2;0.3;0.4
set values setting current (Isd) / for S-tripping / with I2t characteristic / for eSet / independent of direction	0.6-10;0.001
adjustable absolute value setting current (Isd)	
● for S-tripping / with I2t characteristic / for eSet / independent of direction / minimum	750 A
● at 500 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	68 kA
● at 690 V / for S-tripping / with I2t characteristic / for eSet / independent of direction / maximum	52.8 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	No
● decoder and infinite adjustability are selectable (with eSet)	Yes
set values setting current (Ii) / for I-tripping	1.5;2;3;4;6;8;10;12;15
reference value setting current (Ii) / for I-tripping	x In
tripping factor setting current (Iimax) / for I-tripping	0.8
reference value setting current (Iimax) / for I-tripping	x Ics
set values setting current (Ii) / for I-tripping / for eSet	1.5-15;0.001
adjustable absolute value setting current (Ii)	
● for I-tripping / for eSet / minimum	1875 A
● at 500 V / for I-tripping / for eSet / maximum	80 kA
● at 690 V / for I-tripping / for eSet / maximum	52.8 kA
G: ground fault GF	
product feature / for G-tripping	
● can be switched on/off	Yes
● selectable characteristic function	Yes
set values setting current (Ig) / for G-tripping / with I0t characteristic	0.08-1.6;0.001
reference value setting current (Ig) / for G-tripping / with I0t characteristic	x In
set values delay time (tg) / for G-tripping / with I0t characteristic	0.02-5;0.001
reference value delay time (tg) / for G-tripping / with I0t characteristic	s
set values setting current (Ig) / for G-tripping / with I2t characteristic	0.08-1.6;0.001
reference value setting current (Ig) / for G-tripping / with I2t characteristic	x In
set values delay time (tg) / for G-tripping / with I2t characteristic	0.02-30; 0.001
reference value delay time (tg) / for G-tripping / with I2t	s

characteristic	
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	10000
● at 690 V / with support / typical	20000
Dimensions	
height	468 mm
width	320 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	IP20
ambient temperature / during operation	
● minimum	-40 °C
● maximum	70 °C
ambient temperature / during storage	
● minimum	-40 °C
● maximum	80 °C
Certificates	
reference code / according to IEC 81346-2	Q

Approvals / Certificates

Environment	General Product Approval

General Product Approval	EMV	Radio Equipment Type Approval Certificate	Test Certificates
Confirmation		Miscellaneous	Special Test Certificate

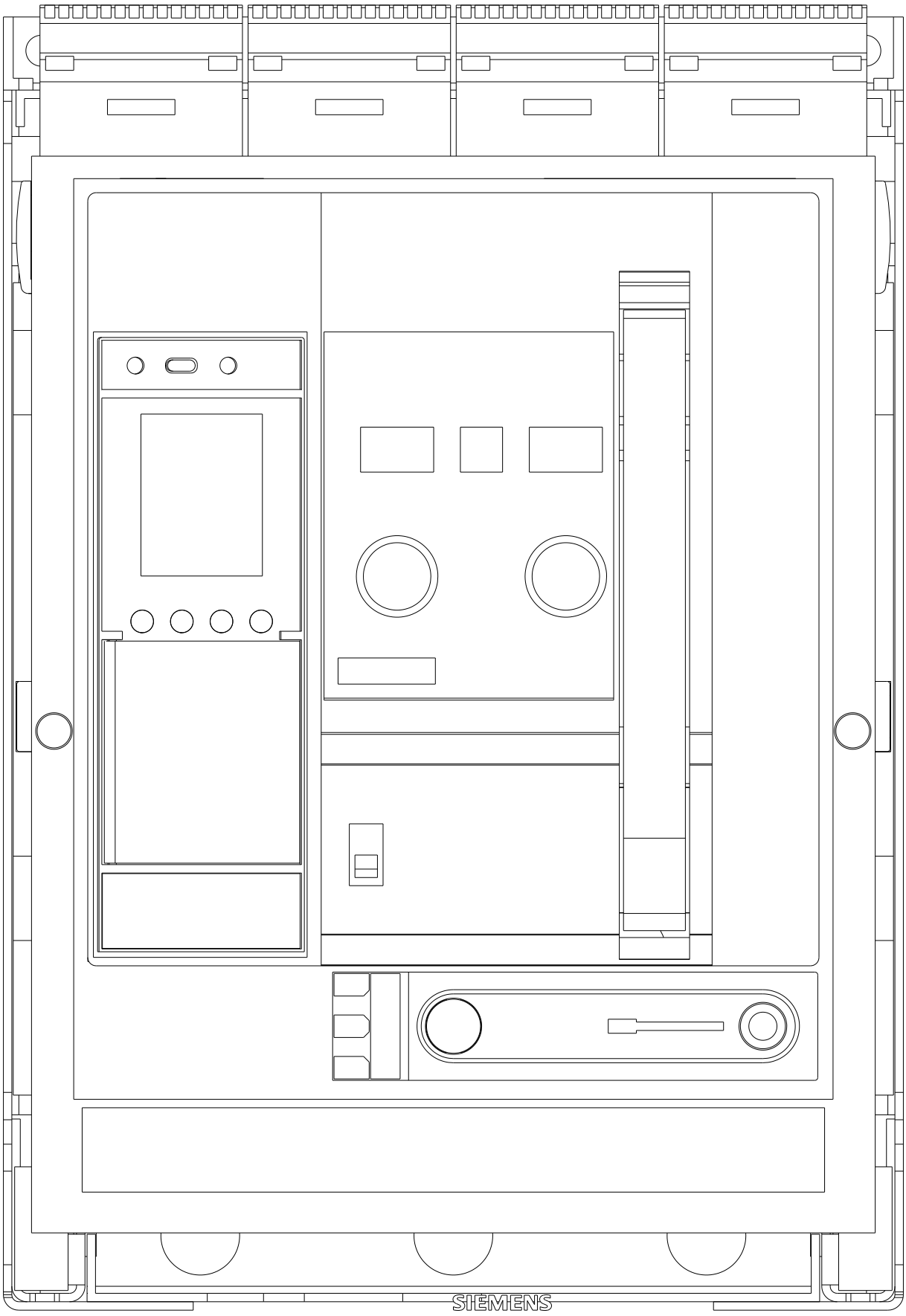
Test Certificates	Maritime application				
Miscellaneous	ABS	BUREAU VERITAS	DNV	LRS	PRS

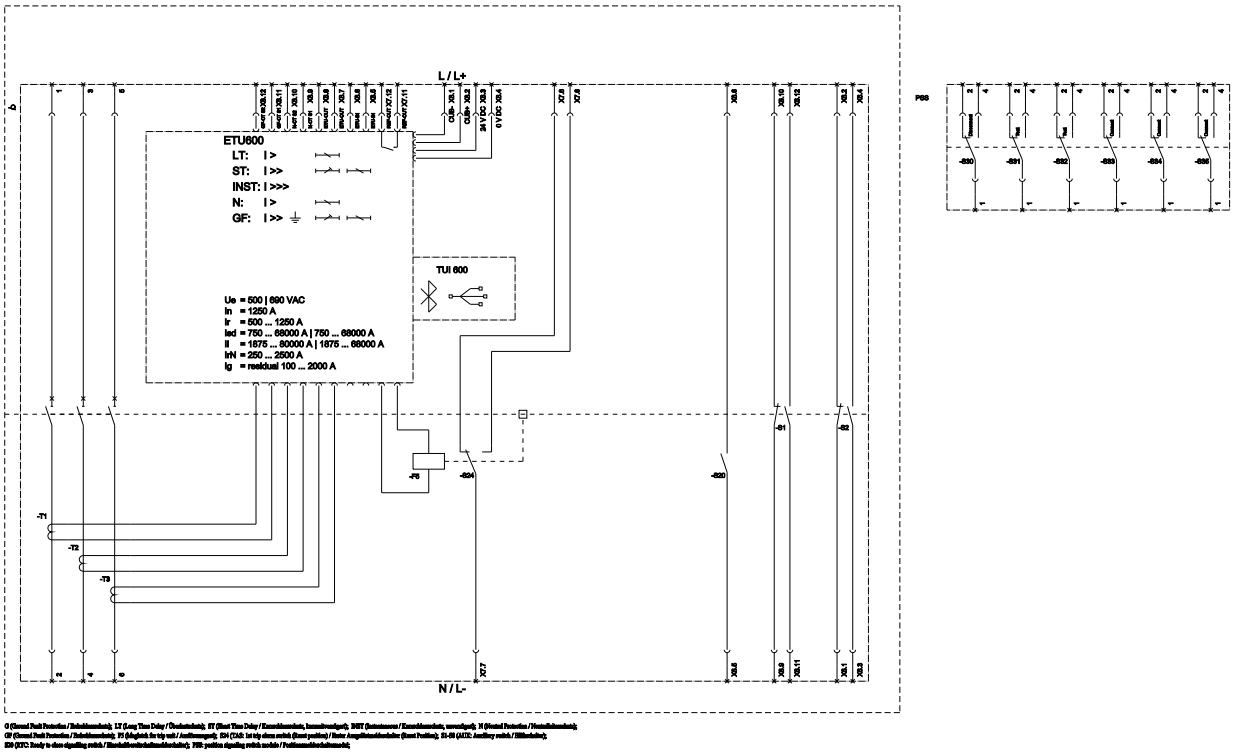
Maritime application	other				
CCS (China Classification Society)	Miscellaneous	Miscellaneous	Manufacturer Declaration	产品合格 QC PASS	Confirmation

Dangerous goods	
Transport Information	Dangerous goods 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=3WA1112-5AF62-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3WA1112-5AF62-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1112-5AF62-0AA0
CAx-Online-Generator
https://www.siemens.com/cax
Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod__no>





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