SIEMENS

Data sheet 3WA1220-5AB30-8EV4-Z S07+T40

Withdrawable circuit breaker without guide frame, IEC 60947-2, frame size 2, 3-poles, In=2000A up to 690V AC 50/60Hz, breaking capacity H Icu=100/85kA at 500/690V, Trip unit ETU300 LSI optimized for standard applica- tions, without display Protection LT, ST, INST, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), without Com & metering function 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 4NO+4NC, 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-t) with time delay 0,2-3,2 s 208-240 V AC / 220-250 V DC, Shunt trip (ST) 100% OP 208-240 V AC / 220-250 V DC, suitable for continuous duty, Option S07 = Locking provision against unauthorized closing Secured Open; for padlock device Padlocks are not included. 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 without guide frame
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	ETU300 LSI
Weight	60.012 kg
Net Weight	47.012 kg
General technical data	
insulation voltage / rated value	1000 V
operating voltage / at AC / at 50/60 Hz / rated value	690 V
Current	
continuous current / rated value / maximum	2000 A
continuous current / rated value	2000 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	85 kA
operating short-circuit current breaking capacity (Ics)	
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 kA
short-circuit current making capacity (Icm)	
• at 500 V / rated value	220 kA
• at 690 V / rated value	187 kA
short-time withstand current (Icw) / at 500 V AC	
• for 0.5 s / rated value	100 kA
• for 1 s / rated value	85 kA
• for 2 s / rated value	66 kA
• for 3 s / rated value	55 kA
short-time withstand current (Icw) / at 690 V AC	

● for 0.5 s / rated value	85 kA
● for 1 s / rated value	85 kA
● for 2 s / rated value	66 kA
● for 3 s / rated value	55 kA
Electronic release unit	
product feature	
● upgradable	No
● Bluetooth and USB interface	No
● decoder for basic protection functions	Yes
● display and function keys	No
● SENTRON powerconfig configuration software	No
Basic protection functions	
product feature / for L-tripping	
● can be switched on/off	No
● selectable characteristic function	No
● decoder and infinite adjustability are selectable with eSet	No
set values setting current (Ir) / for L-tripping / with I2t characteristic	0.4;0.5;0.6;0.7;0.75;0.8;0.85;0.9;0.95;1.0
reference value setting current (Ir) / for L-tripping / with I2t characteristic	x In
set values delay time (tr) / for L-tripping / with I2t characteristic	0.75;1;2;5;8;10;14;17;21;25
reference value delay time (tr) / for L-tripping / with I2t characteristic	s
L: Overload protection N-conductor	
product feature / with neutral conductor protection / can be switched on/off	No
setting values setting current (InN) / for N-tripping	1
reference value setting current (InN) / for N-tripping	x In
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	No
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
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	0.08;0.15;0.22;0.3;0.4
product feature / for I-tripping	
● can be switched on/off	No
● decoder and infinite adjustability are selectable (with eSet)	No
set values setting current (Ii) / for I-tripping	1.5;2;3;4;5;6;8;10;12;15
reference value setting current (Ii) / for I-tripping	x In
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	7500
● at 690 V / with support / typical	20000
Dimensions	
height	468 mm
width	460 mm
depth	471 mm
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	
● undervoltage release	Yes
● voltage trigger	Yes
● trip indicator	Yes
● motor drive	Yes
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
Environmental footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
Certificates	
reference code	
● according to IEC 81346-2	Q

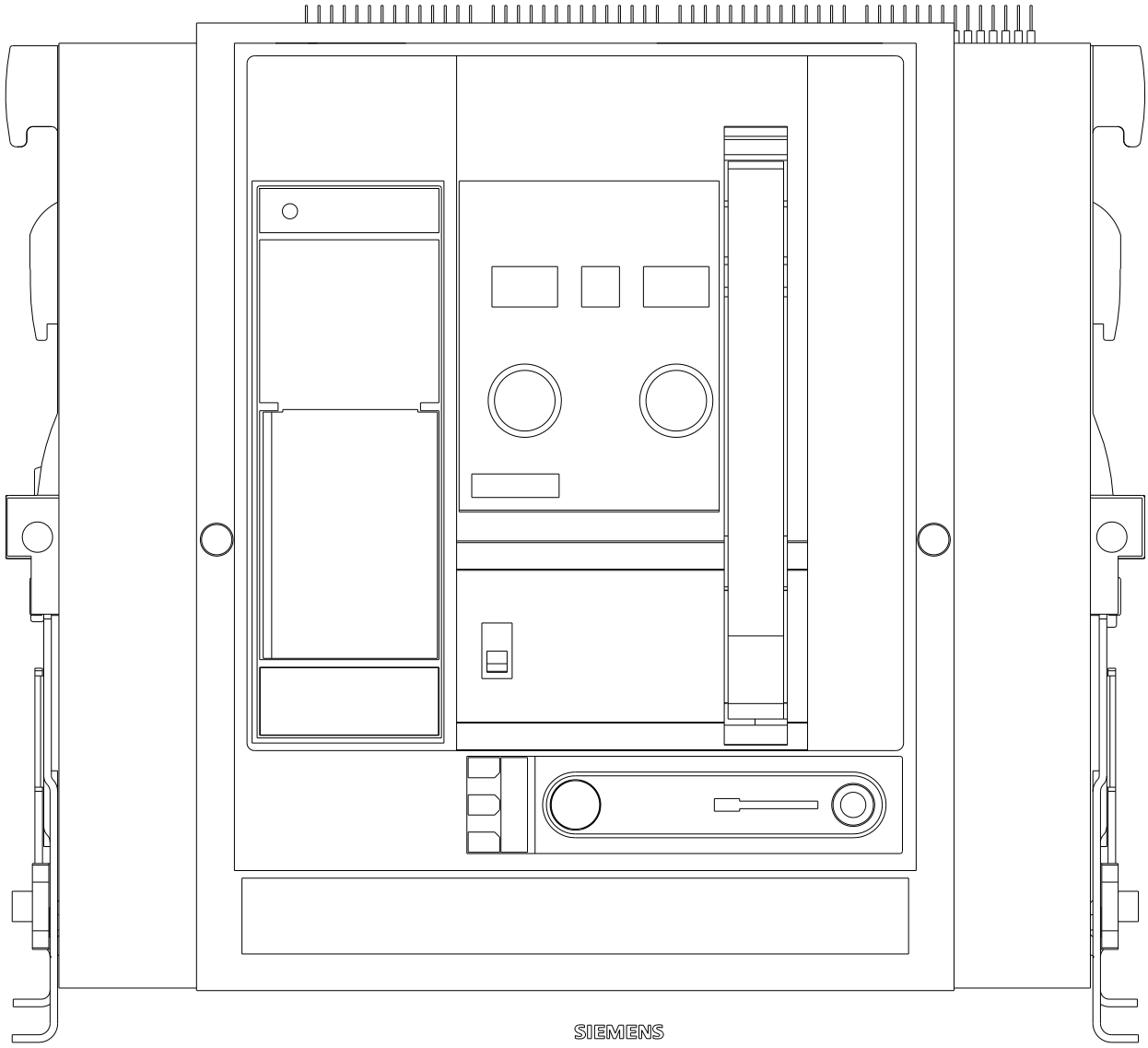
General Product Approval				EMV	Radio Equipment Type Approval Certificate
CCC	CE EG-Konf.	UKCA	EAC	RCM	Miscellaneous

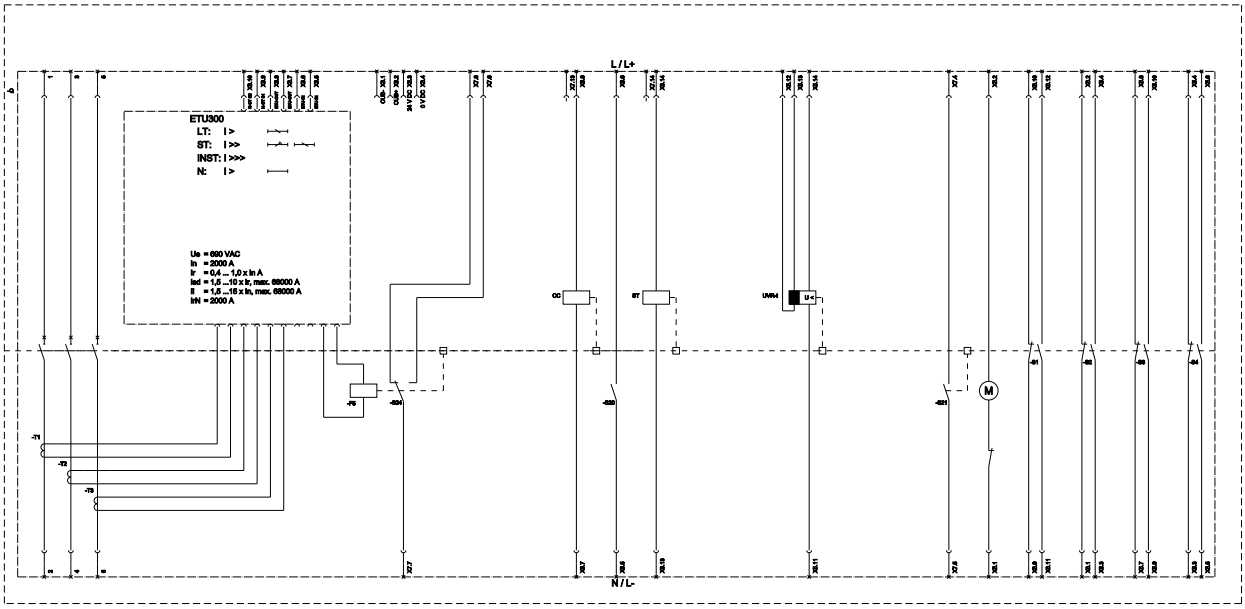
Test Certificates		Maritime application			other
Miscellaneous	Special Test Certificate	ABS	BUREAU VERITAS	LRS	Confirmation

other		Dangerous goods	Environment		
产品合格 QC PASS	Manufacturer Declaration	Transport Information	EPD	Siemens EcoTech	EPD

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=3WA1220-5AB30-8EV4-Z S07+T40
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3WA1220-5AB30-8EV4-Z S07+T40
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1220-5AB30-8EV4-Z S07+T40
CAx-Online-Generator
http://www.siemens.com/cax
Information- and Downloadcenter (catalogues, leaflets,...)
http://www.siemens.com/energy-automation





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