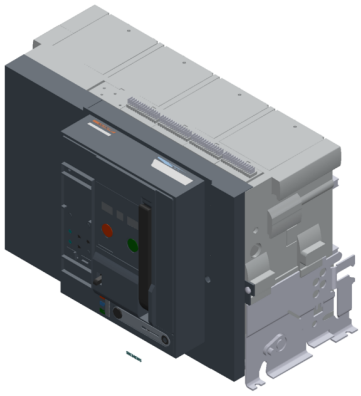
SIEMENS

Data sheet 3WA1225-3AB40-0AA0



Withdrawable circuit breaker without guide frame, IEC 60947-2, frame size 2, 4-poles, N-pole left, In=2500A up to 690V AC 50/60Hz, breaking capacity S Icu=66/50kA at 500/690V, Trip unit ETU300 LSI optimized for standard applications, without display Protection LT, ST, INST, include N-protection, (internal N-sensor available), incl. trip alarm switch (1xCO), 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	II
number of poles	4
position / of neutral conductor	neutral left
fastening method	withdrawable circuit breaker without guide frame
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	ETU300 LSI
Weight	73.851 kg
Net Weight	60.851 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	2500 A
continuous current / rated value	2500 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 (Icu)	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
operating short-circuit current breaking capacity (Ics)	
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
short-circuit current making capacity (Icm)	
• at 500 V / rated value	145 kA
• at 690 V / rated value	105 kA
short-time withstand current (Icw) / 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	55 kA
short-time withstand current (Icw) / 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	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
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	590 mm
depth	471 mm
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		
				Confirmation	

General Product Approval		EMV	Radio Equipment Type Approval Certificate	Test Certificates	
			Miscellaneous	Special Test Certific-ate	Miscellaneous

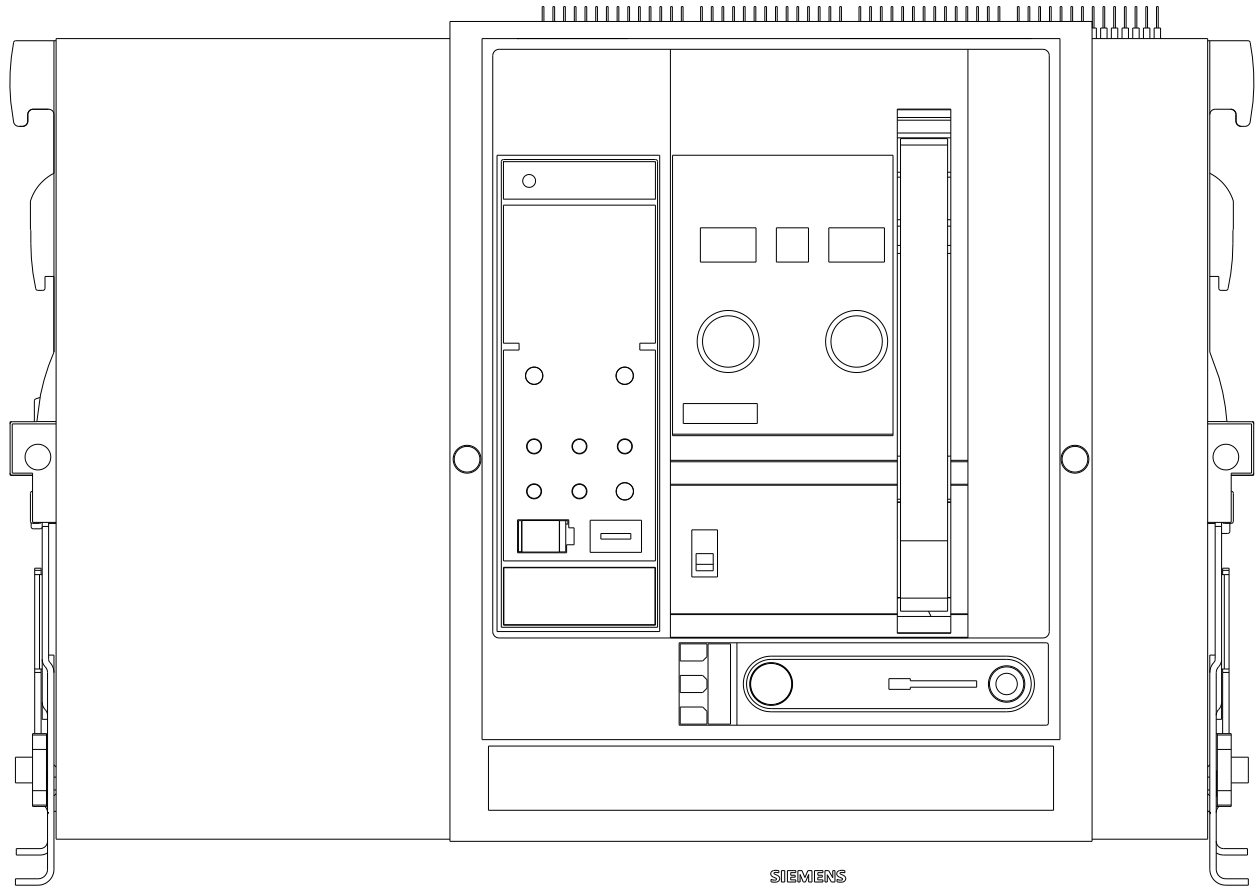
Maritime application			other		
			Confirmation		Manufacturer Declara-tion

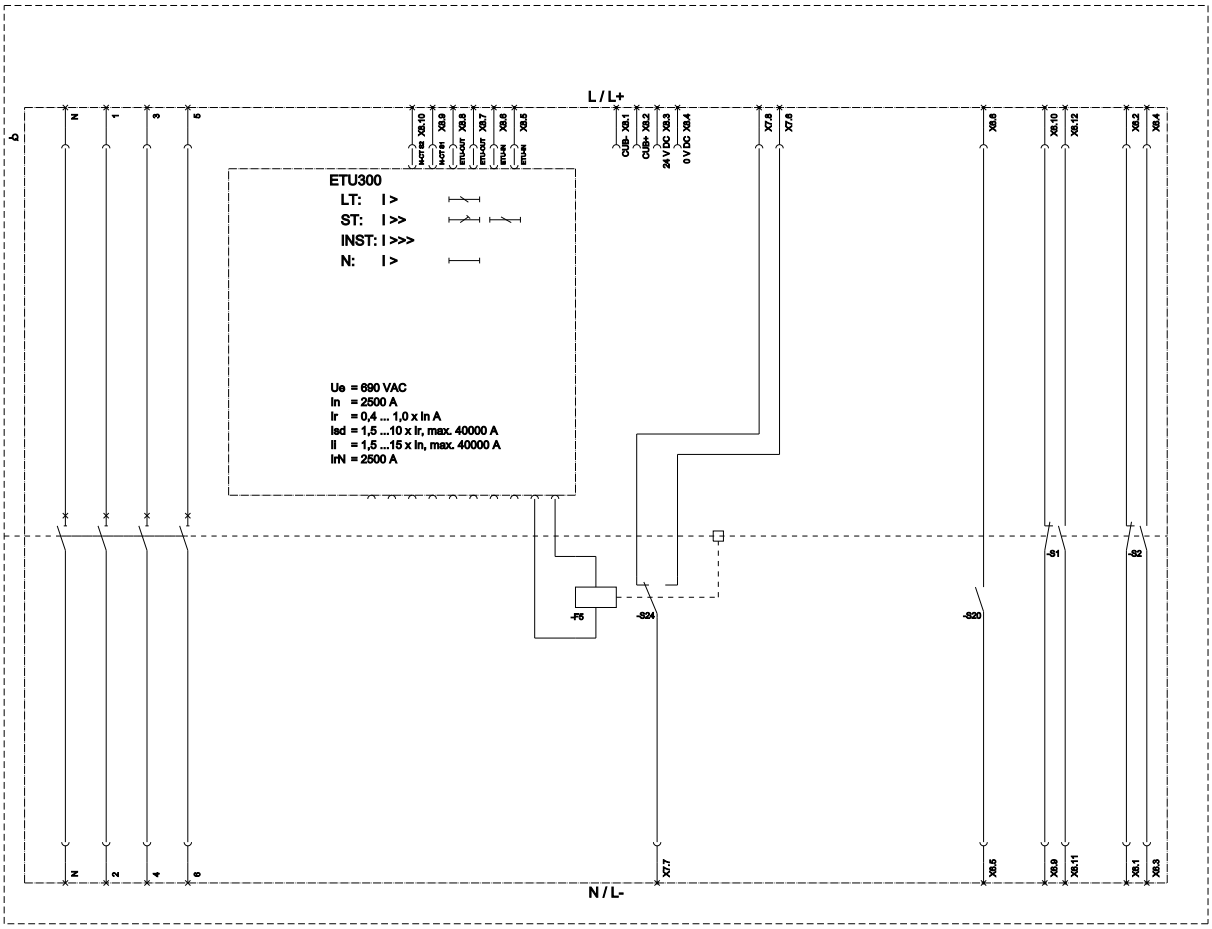
Dangerous goods

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=3WA1225-3AB40-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-3AB40-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1225-3AB40-0AA0
CAx-Online-Generator
https://www.siemens.com/cax
Characteristic curves
https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod__no>





LT (Long Time Delay / Überlastschutz); ST (Short Time Delay / Kurzschlussschutz, kurzzeitverzögert); INST (instantaneous / Kurzschlussschutz, unverzögert); N (Neutral Protection / Neutralleiterschutz); GF (Ground Fault Protection / Erdschlussschutz);
F5 (Maglatch für trip unit / Auslösemagnet); S24 (TAR: 1st trip alarm switch (Reset position) / Erster Ausgelöstesignalschalter (Reset Position); S1-S8 (AUX: Auxiliary switch / Hilfsschalter); S20 (RTC: Ready to close signalling switch / Einschaltbereitschaftsmeldeschalter);
PSS: position signaling switch module / Positionsmeldeschaltermodul;

last modified: 11/24/2025