SIEMENS

Data sheet

3WA1225-4AB02-0AA0



Fixed-mounted circuit breaker IEC 60947-2, frame size 2, 3-poles, In=2500A up to 690V AC 50/60Hz, breaking capacity M Icu=85/66kA 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), rear connection horizontal, 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

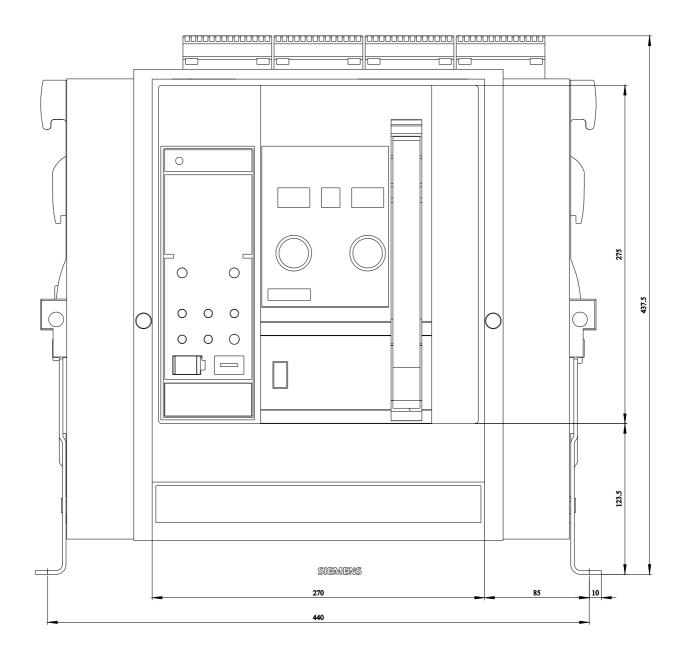
Model		
product brand name	SENTRON	
product designation	3WA air circuit breaker	
suitability for use	circuit breaker	
size of the circuit-breaker	Ш	
number of poles	3	
position / of neutral conductor	no internal N-conductor	
fastening method	fixed-mounted circuit breakers	
design of the product	AC application	
type of the driving mechanism	manual operating mechanism with mechanical or electrical closing	
design of the electronic trip unit	ETU300 LSI	
Weight	57.9 kg	
Net Weight	44.9 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	270 W	
Current		
continuous current / rated value / maximum	2500 A	
continuous current / rated value	2500 A	
operational current		
• at 40 °C / rated value	2500 A	
• at 45 °C / rated value	2500 A	
• at 50 °C / rated value	2500 A	
• at 55 °C / rated value	2500 A	
• at 60 °C / rated value	2500 A	
• at 65 °C / rated value	2500 A	
• at 70 °C / rated value	2500 A	
Switching capacity and short-time withstand current, according to IEC 60947-2		
switching capacity class of the circuit breaker	Μ	
maximum short-circuit current breaking capacity (Icu)		
• at 500 V / rated value	85 kA	
• at 690 V / rated value	66 kA	
operating short-circuit current breaking capacity (lcs)		
• at 500 V / rated value	85 kA	
• at 690 V / rated value	66 kA	
short-circuit current making capacity (Icm)		
• at 500 V / rated value	187 kA	
• at 690 V / rated value	145 kA	
short-time withstand current (Icw) / at 500 V AC		

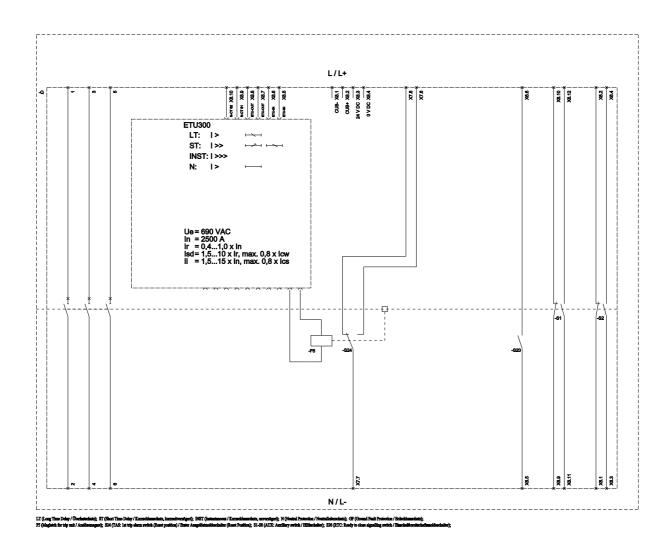
 for 0.5 s / rated value 	85 kA
 for 1 s / rated value 	85 kA
 for 2 s / rated value 	66 kA
for 3 s / rated value	55 kA
short-time withstand current (Icw) / at 690 V AC	
 for 0.5 s / rated value 	66 kA
 for 1 s / rated value 	66 kA
 for 2 s / rated value 	66 kA
for 3 s / rated value	55 kA
Electronic release 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 l0t	
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 l0t characteristic	x lr
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 lr
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 (li) / for I-tripping	1.5;2;3;4;5;6;8;10;12;15
reference value setting current (li) / for I-tripping	x ln
G: ground fault GF	
product feature / for G-tripping	
• can be switched on/off	No
 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	437 mm
width	460 mm
depth	357 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
Test Certificates	



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/Catalog/product?mlfb=3WA1225-4AB02-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-4AB02-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1225-4AB02-0AA0 CAx-Online-Generator http://www.siemens.com/cax Information- and Downloadcenter (catalogues, leaflets,...) http://www.siemens.com/energy-automation





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