3WA1225-5AB02-0AA0

Data sheet



Fixed-mounted circuit breaker IEC 60947-2, frame size 2, 3-poles, In=2500A 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), 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	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	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	58.1 kg			
Net Weight	45.1 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	Н			
maximum short-circuit current breaking capacity (lcu)				
• at 500 V / rated value	100 kA			
at 690 V / rated value	85 kA			
operating short-circuit current breaking capacity (lcs)				
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	OO IVA
• 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 ln
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 I0t 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 (Ii) / for I-tripping	x in
G: ground fault GF	
product feature / for G-tripping • can be switched on/off	No
selectable characteristic function	No
Further protective functions	
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protection function			
protection function • maintenance mode DAS+	Yes		
Measuring functions	165		
measurement function			
	Voc		
current measurement	Yes		
Communication	M-		
communication function	No	_	_
Service Life			
mechanical service life (operating cycles)	40000		
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, h	orizontal	
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		
General Product Approval		Radio Equipment Type Approval Certi- ficate	Test Certificates









Miscellaneous

Miscellaneous

Test Certificates

Marine / Shipping

other

Special Test Certificate







Confirmation

Manufacturer Declaration

Dangerous goods

Environment







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=3WA1225-5AB02-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-5AB02

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

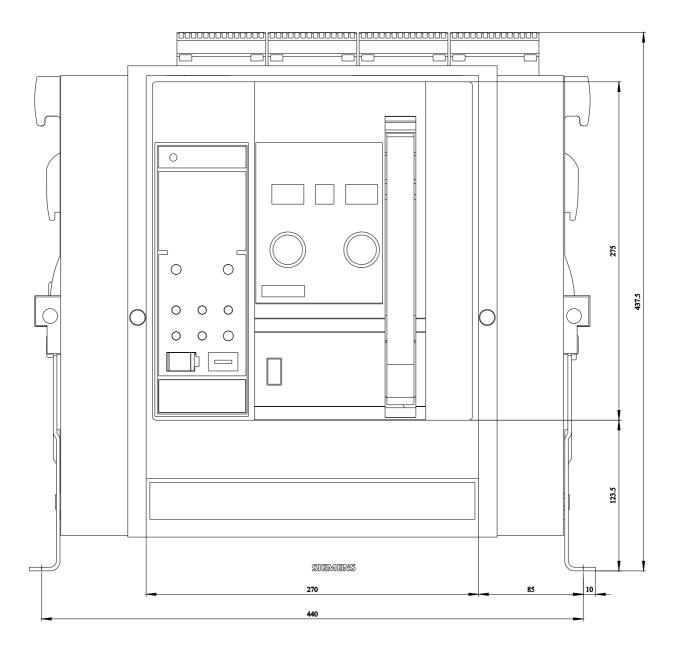
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1225-5AB02-0AA0

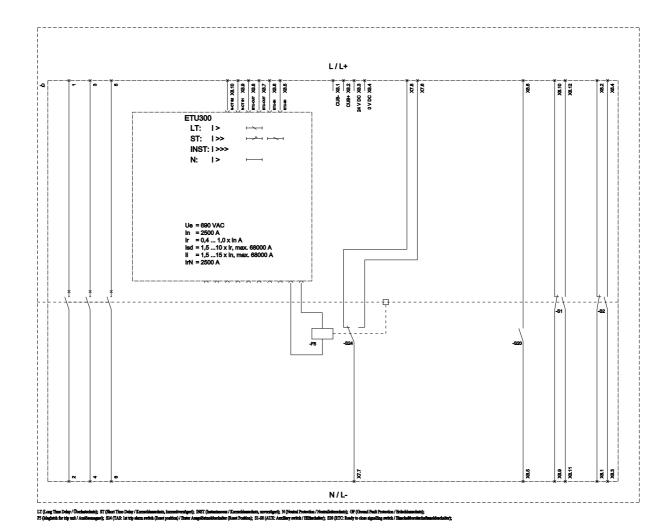
CAx-Online-Generator

http://www.siemens.com/cax

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

http://www.siemens.com/energy-automation





12/13/2023

last modified: