SIEMENS

Data sheet

3WA1125-3AB02-0AA0



Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 3-poles, In=2500A up to 690V AC 50/60Hz, breaking capacity S Icu=66/50kA 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			
suitability for use	circuit breaker			
size of the circuit-breaker	1			
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	46.1 kg			
Net Weight	33.1 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	360 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	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 (lcs)				
• 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	45 kA		
for 3 s / rated value	45 MA 35 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	45 kA		
for 3 s / rated value	35 kA		
Electronic release unit			
product feature			
	No		
 upgradable Bluetooth and USB interface 	No		
	Yes		
decoder for basic protection functions	No		
display and function keys SENTRON powerconfiguration software	No		
SENTRON powerconfig configuration software	NO		
Basic protection functions			
product feature / for L-tripping	No		
can be switched on/off selectable characteristic function	No		
 selectable characteristic function decoder and infinite adjustability are selectable with eSet 	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	No		
switched on/off	1		
setting values setting current (InN) / for N-tripping	x In		
reference value setting current (InN) / for N-tripping S: delayed short-circuit protection ST	X III		
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 (li) / 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			
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		15000			
 with support / typical 		30000			
electrical endurance (operating cycles)					
• at 690 V / without support / typical		5000			
• at 690 V / with support / typical		30000			
Dimensions					
height		437 mm			
width		320 mm			
depth		357 mm			
Main connection					
arrangement of electrical connectors / for main cu	rent 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	0		
Internal accessories					
product component					
 undervoltage release 		No			
 voltage trigger 	voltage trigger		No		
trip indicator		Yes			
motor drive	motor drive		No		
Environmental conditions					
protection class IP / on the front	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	• maximum		80 °C		
Certificates					
reference code					
 according to IEC 81346-2 		Q			
General Product Approval	other			Environment	
Confirmation EG-Konf.	<u>Miscellaneo</u>	<u>US</u>	Confirmation	Environmental Con- firmations	

 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=3WA1125-3AB02-0AA0

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

 https://support.industry.siemens.com/cs/ww/en/ps/3WA1125-3AB02-0AA0

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

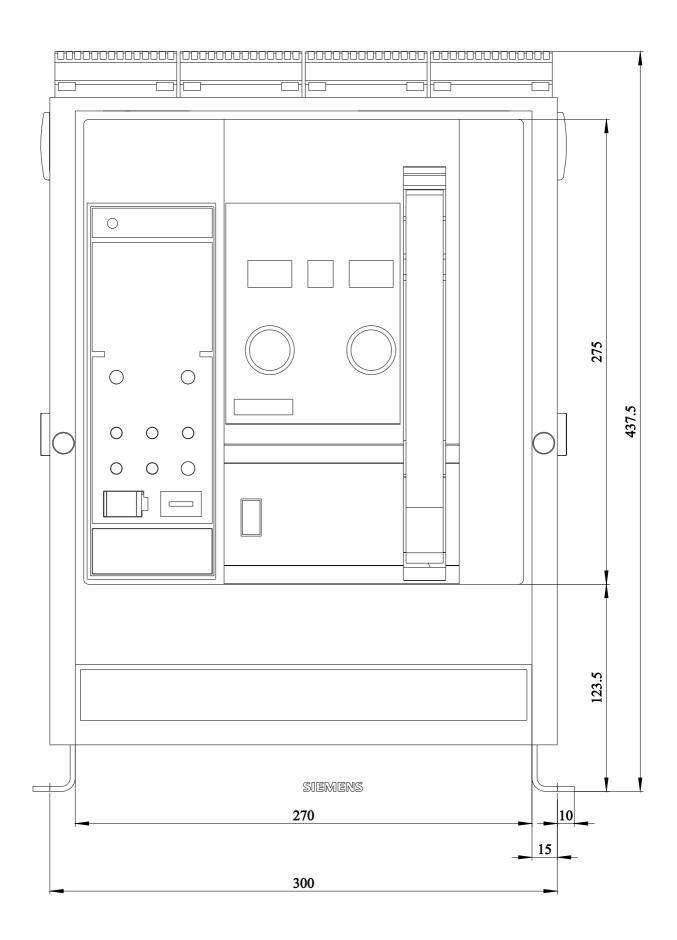
 http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1125-3AB02-0AA0

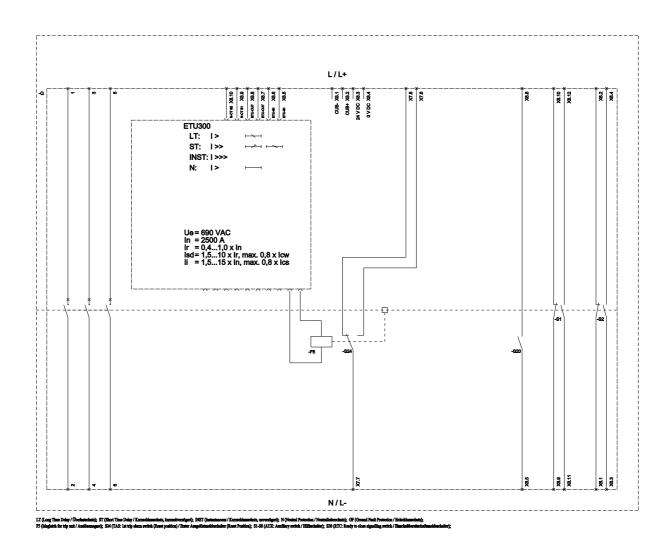
 CAx-Online-Generator

 http://www.siemens.com/cax

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

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





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