SIEMENS

Data sheet



Fixed-mounted circuit breaker IEC 60947-2, frame size 2, 4-poles, N-pole left, 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, include N-protection, (internal N-sensor available), 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	4			
position / of neutral conductor	neutral left			
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	68.9 kg			
Net Weight	55.9 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	M			
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				

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• 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 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 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 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			
• maintenance mode DAS+ Measuring functions	res			
measurement function	V			
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	590 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	=0			
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			
according to IEC 61340-2	Q	Padio Equipment		
General Product Approval		Radio Equipment Type Approval Certi- ficate	Test Certificates	









Miscellaneous

Special Test Certificate

Test Certificates

Marine / Shipping

other

Miscellaneous







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=3WA1225-4AB12-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1225-4AB12-0AA0

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

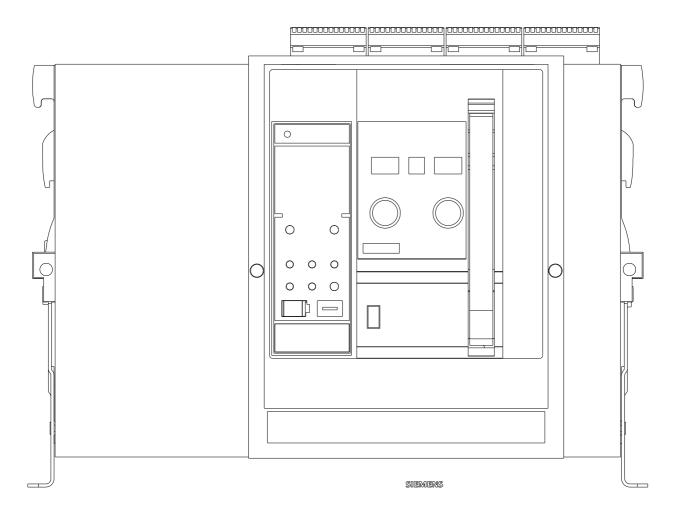
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1225-4AB12-0AA0

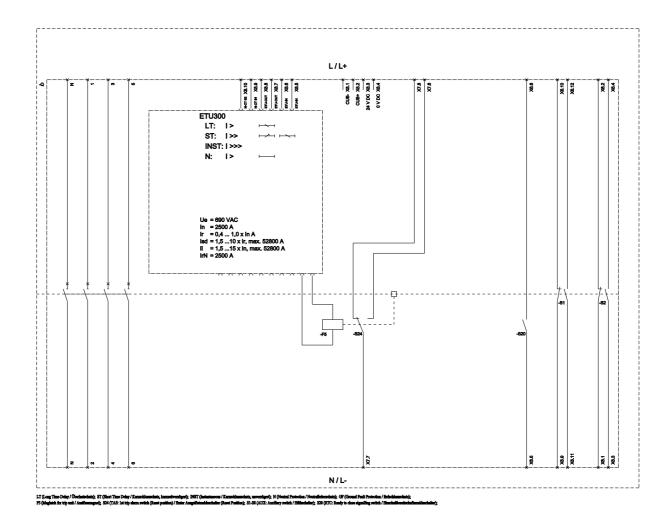
CAx-Online-Generator

http://www.siemens.com/cax

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

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





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