3WA1116-2AB02-0AA0

Data sheet



Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 3-poles, In=1600A up to 690V AC 50/60Hz, breaking capacity N Icu=55/42kA 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	T		
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	45.6 kg		
Net Weight	32.6 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	135 W		
Current			
continuous current / rated value / maximum	1600 A		
continuous current / rated value	1600 A		
operational current			
 at 40 °C / rated value 	1600 A		
• at 45 °C / rated value	1600 A		
 at 50 °C / rated value 	1600 A		
• at 55 °C / rated value	1600 A		
 at 60 °C / rated value 	1600 A		
 at 65 °C / rated value 	1600 A		
 at 70 °C / rated value 	1600 A		
Switching capacity and short-time withstand current, according to IEC 60947-2			
switching capacity class of the circuit breaker	N		
maximum short-circuit current breaking capacity (Icu)			
at 500 V / rated value	55 kA		
at 690 V / rated value	42 kA		
operating short-circuit current breaking capacity (lcs)			
at 500 V / rated value	55 kA		
at 690 V / rated value	42 kA		
short-circuit current making capacity (Icm)			
at 500 V / rated value	121 kA		
at 690 V / rated value	88 kA		
short-time withstand current (Icw) / at 500 V AC			
• for 0.5 s / rated value	55 kA		

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• for 1 s / rated value	50 kA
• for 2 s / rated value	45 kA
• for 3 s / rated value	35 kA
short-time withstand current (Icw) / at 690 V AC	40 1-4
• for 0.5 s / rated value	42 kA
• for 1 s / rated value	42 kA
• for 2 s / rated value	42 kA
• for 3 s / rated value	35 kA
Electronic release unit	
product feature	N.
• upgradable	No
Bluetooth and USB interface	No
decoder for basic protection functions	Yes
display and function keys	No No
SENTRON powerconfig configuration software	No
Basic protection functions	
product feature / for L-tripping	No
can be switched on/off calcatable above to interest a function	No No
selectable characteristic function	No 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 12t 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 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 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	
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 	10000
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 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	0°C
Certificates	
reference code	
reference code • according to IEC 81346-2 General Product Approval	Q





Confirmation







EMV	Radio Equipment Type Approval Certi- ficate	Test Certificates		Marine / Shipping	
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Miscellaneous

Special Test Certificate

Miscellaneous





	Marine / Shipping	other	Dangerous goods	Environment
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Confirmation Manufacturer Declara-

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Transport Information



Environment





Information on the packaging

.com/cs/ww/en/view/109813875

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WA1116-2AB02-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1116-2AB02-0AA0

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

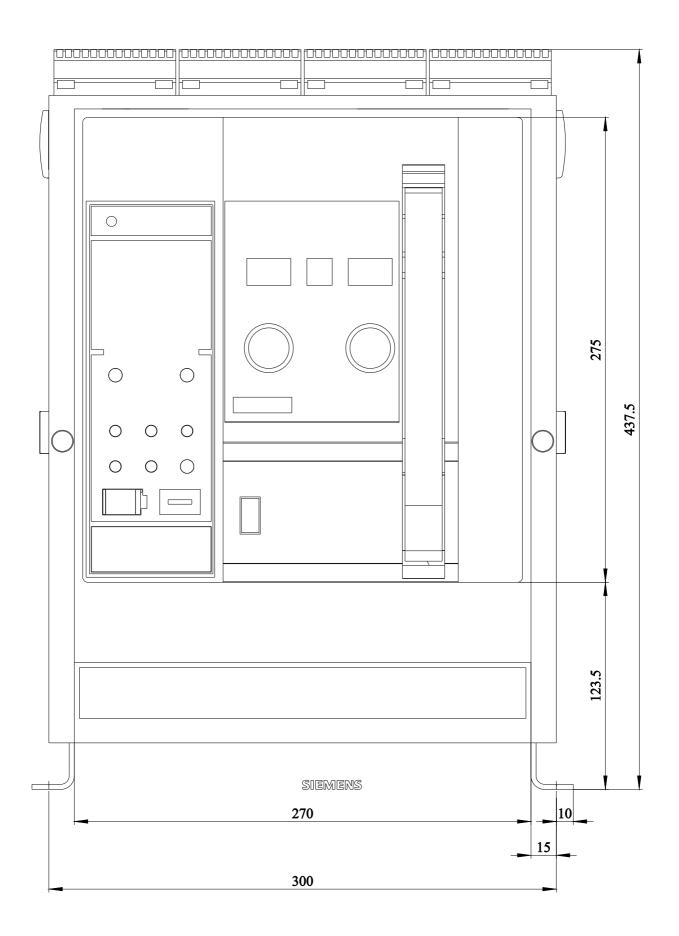
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1116-2AB02-0AA0

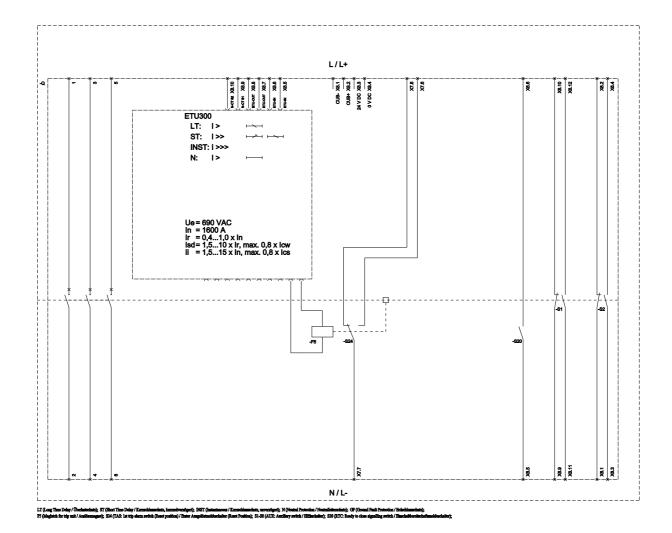
CAx-Online-Generator

http://www.siemens.com/cax

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

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





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