3WA1106-2AB02-0AA0

Data sheet



Fixed-mounted circuit breaker IEC 60947-2, frame size 1, 3-poles, In=630A 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	The state of the s
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	43.9 kg
Net Weight	30.9 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	30 W
Current	
continuous current / rated value / maximum	630 A
continuous current / rated value	630 A
operational current	
 at 40 °C / rated value 	630 A
 at 45 °C / rated value 	630 A
 at 50 °C / rated value 	630 A
• at 55 °C / rated value	630 A
 at 60 °C / rated value 	630 A
 at 65 °C / rated value 	630 A
 at 70 °C / rated value 	630 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	35 kA
• for 3 s / rated value	30 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	35 kA
• for 3 s / rated value	30 kA
Electronic release unit	
product feature	
upgradable Plystack and USB interferen	No 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 characteristic 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° ℃	
Certificates		
reference code		
according to IEC 81346-2	Q	
General Product Approval		EMV



Confirmation









Miscellaneous

Miscellaneous

Special Test Certificate







other	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=3WA1106-2AB02-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1106-2AB02-0AA0

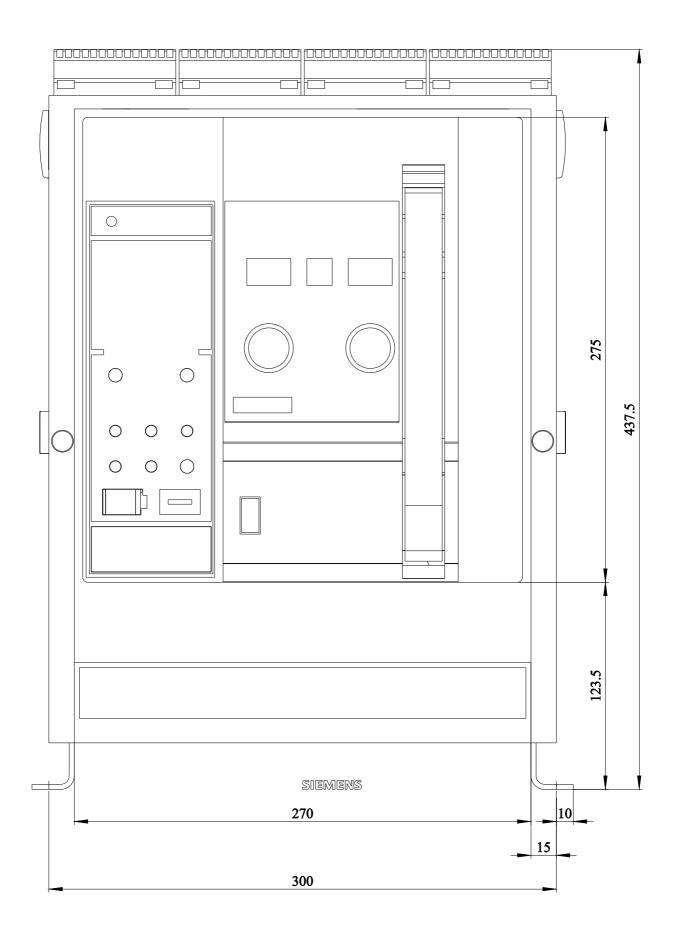
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1106-2AB02-0AA0

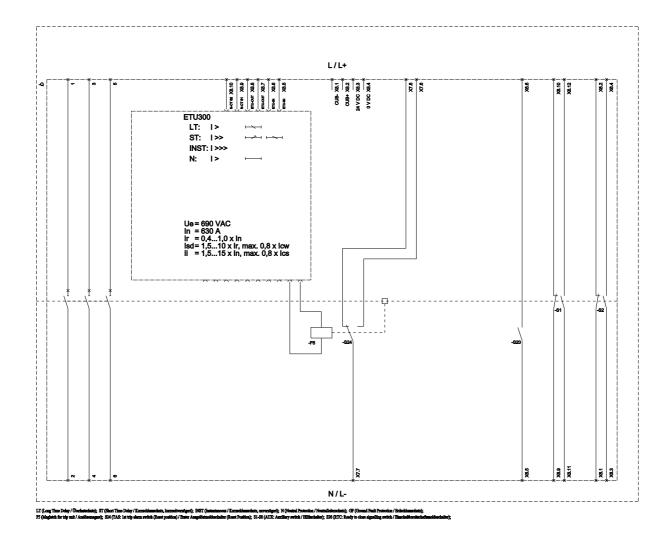
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http://www.siemens.com/cax

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

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





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