SIEMENS

Data sheet



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 2, 3-poles, In=4000A 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, N-protection required an external N-sensor, incl. trip alarm switch (1xCO), rear connection vertical, guide frame with shutter and w/o position signalling switch, 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	withdrawable circuit breaker		
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	106.3 kg		
Net Weight	93.3 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	1040 W		
Current			
continuous current / rated value / maximum	4000 A		
continuous current / rated value	4000 A		
operational current			
• at 40 °C / rated value	4000 A		
• at 45 °C / rated value	4000 A		
• at 50 °C / rated value	4000 A		
• at 55 °C / rated value	4000 A		
• at 60 °C / rated value	3910 A		
• at 70 °C / rated value	3645 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			
• for 0.5 s / rated value	85 kA		

- for 4 o / retail value	05 14
for 1 s / rated valuefor 2 s / rated value	85 kA 85 kA
• for 3 s / rated value	75 kA
short-time withstand current (Icw) / at 690 V AC	00 1.4
• 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	66 kA
Electronic release unit	
product feature	N-
upgradable Divitable and UCD 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 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 l0t 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	10000			
with support / typical	20000			
electrical endurance (operating cycles)				
at 690 V / without support / typical	2000			
• at 690 V / with support / typical	20000			
Dimensions				
height	468 mm			
width	460 mm			
depth	471 mm			
Main connection				
arrangement of electrical connectors / for main current circuit	main connection on the rear, ve	ertical		
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	
		A 41		









<u>Miscellaneous</u>

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=3WA1240-4AB31-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1240-4AB31-0AA0

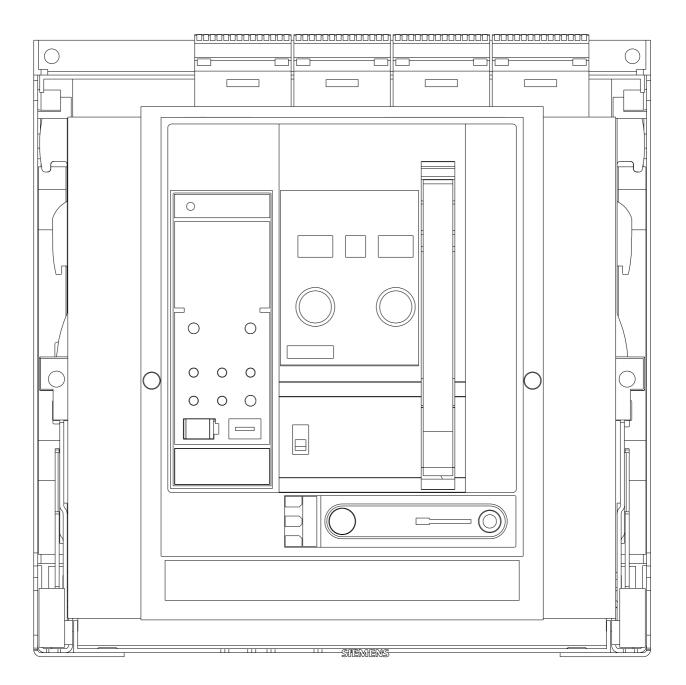
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1240-4AB31-0AA0

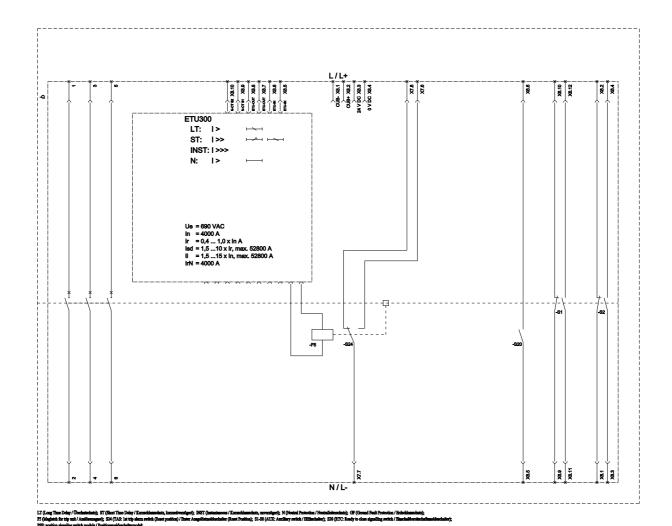
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http://www.siemens.com/cax

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

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





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