## SIEMENS

## Data sheet

## 3WA1240-4AB41-0AA0



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 2, 4-poles, N-pole left, 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, include N-protection, (internal N-sensor available), 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	4		
position / of neutral conductor	neutral left		
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	150.8 kg		
Net Weight	137.8 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	Μ		
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 1 s / rated value	85 kA		
for 2 s / rated value	85 kA		
for 3 s / rated value	75 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	66 kA		
Electronic release unit			
product feature			
upgradable	No		
Bluetooth and USB interface	No		
decoder for basic protection functions	Yes		
	No		
<ul> <li>display and function keys</li> <li>SENTRON powerconfig configuration software</li> </ul>	No		
	NO		
Basic protection functions			
product feature / for L-tripping	No		
can be switched on/off     selectable characteristic function	No		
<ul> <li>selectable characteristic function</li> <li>decoder and infinite adjustability are selectable with eSet</li> </ul>	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			
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	Vee		
<ul> <li>independent of direction / can be switched on/off</li> <li>independent of direction / selectable characteristic function</li> </ul>	Yes		
<ul> <li>decoder and infinite adjustability are selectable with eSet</li> </ul>	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 l0t 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		
<ul> <li>decoder and infinite adjustability are selectable (with eSet)</li> </ul>	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 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			
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<ul> <li>maintenance mode DAS+</li> </ul>	Yes				
Measuring functions	165				
measurement function					
current measurement	Yes				
Communication	165				
communication function	No				
Service Life	NU				
mechanical service life (operating cycles)	10000				
without support / typical     with support / typical	20000				
with support / typical electrical endurance (operating cycles)	20000				
at 690 V / without support / typical	2000				
<ul> <li>at 690 V / with support / typical</li> <li>at 690 V / with support / typical</li> </ul>	2000				
Dimensions	20000				
height	468 mm				
width	590 mm				
depth	471 mm				
Main connection					
arrangement of electrical connectors / for main current circuit	main connection on the rear, ve	ertical			
Auxiliary circuit	main connection on the real, we				
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	0				
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	11 20				
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		
	EHC	<u>Miscellaneous</u>	<u>Miscellaneous</u>		
Test Certificates Marine / Shipping		other			
Special Test Certific- ate	Lloyd's Register us	<u>Confirmation</u>	Manufacturer Declara- tion		
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=3WA1240-4AB41-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1240-4AB41-0AA0

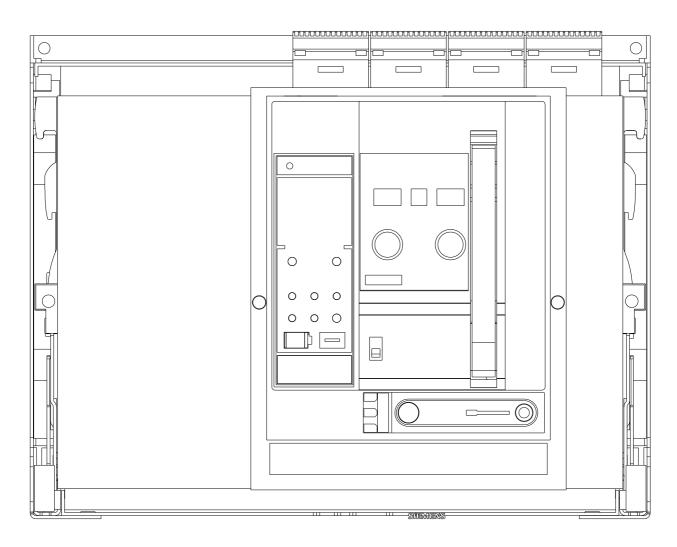
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3WA1240-4AB41-0AA0

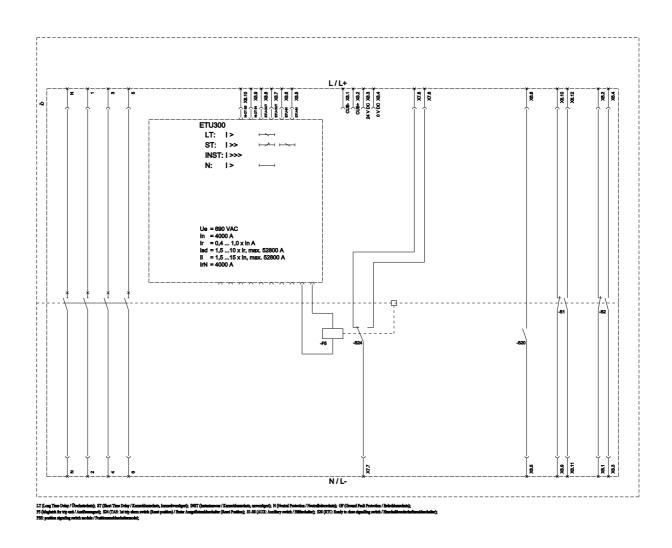
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