SIEMENS

Data sheet

3WA1240-3AB31-0AA0



Withdrawable circuit breaker with guide frame, IEC 60947-2, frame size 2, 3-poles, In=4000A up to 690V AC 50/60Hz, breaking capacity S Icu=66/50kA 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-toclose 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	Ш					
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	S					
maximum short-circuit current breaking capacity (Icu)						
• at 500 V / rated value	66 kA					
• at 690 V / rated value	50 kA					
operating short-circuit current breaking capacity (Ics)						
• at 500 V / rated value	66 kA					
• at 690 V / rated value	50 kA					
short-circuit current making capacity (Icm)						
• at 500 V / rated value	145 kA					
• at 690 V / rated value	105 kA					
short-time withstand current (Icw) / at 500 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
short-time withstand current (Icw) / at 690 V AC	
for 0.5 s / rated value	50 kA
for 1 s / rated value	50 KA
• for 2 s / rated value	50 kA
• for 3 s / rated value	50 kA
Electronic release unit	
product feature	
upgradable	No
Bluetooth and USB interface	No
decoder for basic protection functions	Yes
	No
 display and function keys SENTRON powerconfig configuration software 	No
	No
Basic protection functions	
product feature / for L-tripping	No
can be switched on/off	No
 selectable characteristic function decoder and infinite adjustability are selectable with eSet 	No
decoder and infinite adjustability are selectable with eSet	
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	
 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 mo 	ode DAS+		Yes			
Measuring functions						
measurement function						
 current measure 	ment		Yes			
Communication						
communication functio	n		No			
Service Life						
mechanical service life	(operating cycles)	_	_			
without support			10000			
	•••		20000			
with support / type			20000)		
electrical endurance (o			0000			
 at 690 V / without 			2000			
• at 690 V / with s	upport / typical		20000)		
Dimensions						
height			468 m	ım		
width			460 m	ım		
depth			471 m	ım		
Main connection						
arrangement of electric	al connectors / for main c	urrent circuit	main o	connection on the rear, ve	ertical	
Auxiliary circuit						
design of the auxiliary	switch		2 NO	+ 2 NC		
	/ for auxiliary contacts		2	2110		
	/ for auxiliary contacts		2			
			0			
	s / for auxiliary contacts		0			
Internal accessories						
product component						
 undervoltage rel 	ease		No			
 voltage trigger 			No			
 trip indicator 			Yes			
 motor drive 			No			
Environmental condition	ons					
protection class IP / on	the front		IP20			
ambient temperature /	during operation					
• minimum			-40 °C	2		
 maximum 			70 °C			
ambient temperature /	during storage					
• minimum	aannig otorago		-40 °C	2		
• maximum			80 °C			
Certificates		_	00 0			
reference code	04040.0		0			
according to IEC			Q			
General Product App	roval			Test Certificates	other	
Confirmation	Miscellaneous			Miscellaneous	Miscellaneous	Confirmation
		EHC				
other	Railway			Dangerous goods	Environment	
<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Special Test Cer</u> <u>ate</u>	<u>rtific-</u>	Transport Information	Environmental Con- firmations	Environmental Con- firmations

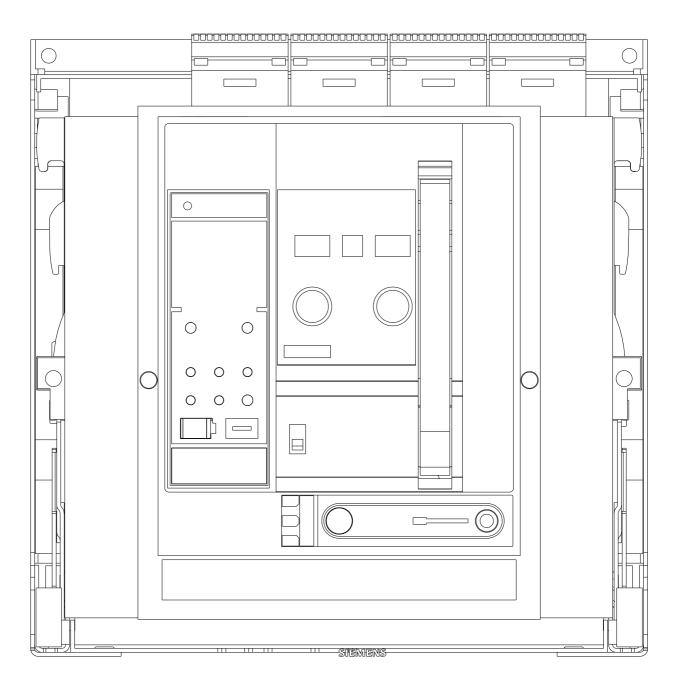
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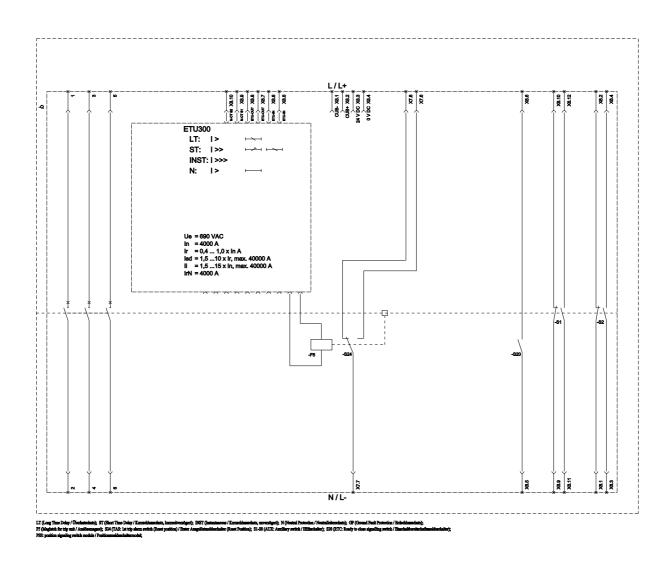
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1240-3AB31-0AA0

CAx-Online-Generator http://www.siemens.com/cax

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

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