SIEMENS

Data sheet

3WA1240-3AB01-0AA0



Fixed-mounted circuit breaker 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, 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	Ш			
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	64.5 kg			
Net Weight	51.5 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	750 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 	4000 A			
• at 65 °C / rated value	4000 A			
 at 70 °C / rated value 	4000 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 (lcs)				
• 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 mod 	IE DAS+	Ye	3			
Measuring functions		10.	5			
measurement function						
current measurem	nont	Ye				
Communication	nent	16	5			
		No				
communication function Service Life		No				
		_				
mechanical service life (400	200			
without support / typical			10000			
with support / typical		200	20000			
electrical endurance (operating cycles)		00	2000			
 at 690 V / without support / typical at 690 V / with support / typical 			2000 2000			
	ррогт / турісаі	200	JUU			
Dimensions						
height			437 mm			
	width) mm			
depth		357	⁷ mm			
Main connection						
-	al connectors / for main curre	ent circuit ma	in connection on the rear, v	vertical		
Auxiliary circuit						
	design of the auxiliary switch		2 NO + 2 NC			
	number of NC contacts / for auxiliary contacts					
number of NO contacts		2	2			
number of CO contacts	number of CO contacts / for auxiliary contacts		0			
Internal accessories						
product component						
 undervoltage rele 	ase	No	No			
 voltage trigger 		No	No			
 trip indicator 		Ye	Yes			
motor drive		No	No			
Environmental condition	าร					
protection class IP / on t	the front	IP2	0			
ambient temperature / during operation						
 minimum 	• minimum		-40 °C			
 maximum 	• maximum		70 °C			
ambient temperature / d	uring storage					
• minimum			-40 °C			
 maximum 	• maximum		80 °C			
Certificates						
reference code						
 according to IEC 	81346-2	Q				
General Product Appr	oval				EMV	
(mar)	Confirmation	IK	~ ~	r M F	A	
(\mathbf{m})			CE	FAL	ΛA.	
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Radio Equipment						
Type Approval Certi-	Test Certificates		Marine / Shipping			
ficate						
Miscellaneous	Special Test Cartific	Miscellaneous		(NYP)		
<u>iviiscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>wiscellaneous</u>	San Martin	ELYS B	Lloyds	
	_		1.20		Kegister	
			ABS	BUREAU	LRS	
				VERITAS		
Marine / Shipping	other		Dangerous goods	Environment		



Confirmation

Manufacturer Declaration Transport Information



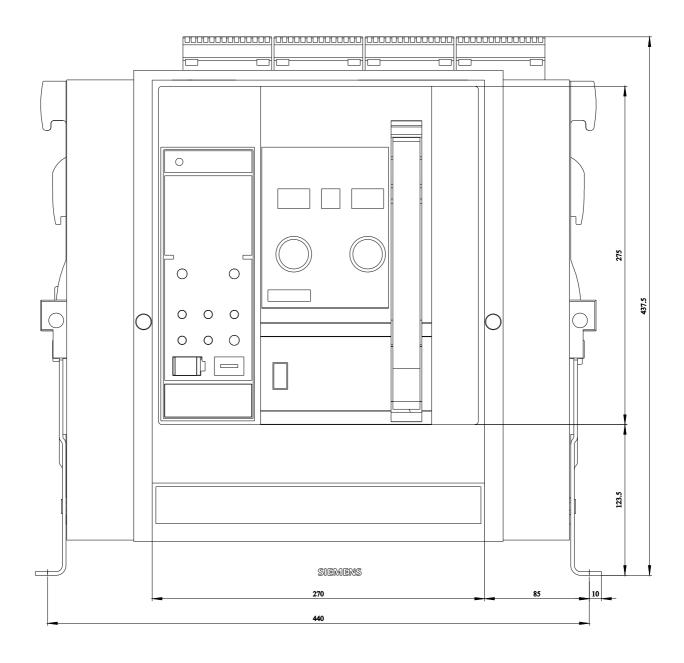


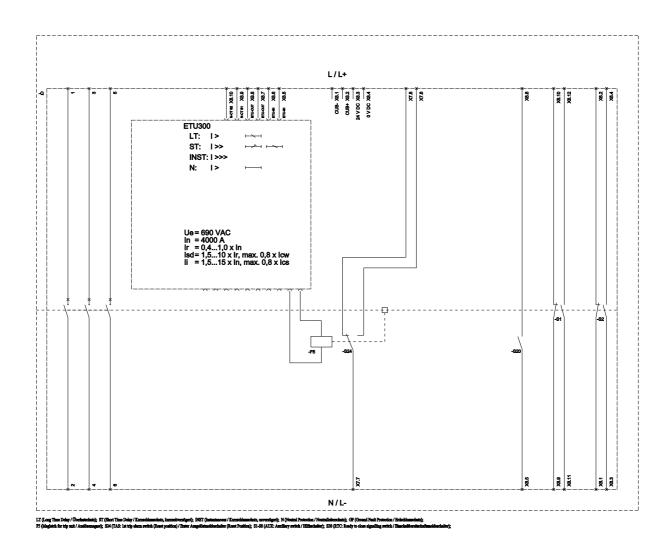
#### Environment



#### Further information

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=3WA1240-3AB01-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3WA1240-3AB01-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1240-3AB01-0AA0 CAx-Online-Generator http://www.siemens.com/cax Information- and Downloadcenter (catalogues, leaflets,...) http://www.siemens.com/energy-automation





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