SIEMENS

Data sheet

Siemens EcoTech



fixed-mounted circuit breaker, IEC 60947-2, size 1, 4-pole, N pole on left, In=4000 A up to 690 V AC 50/60 Hz, breaking capacity M Icu=85/66 kA at 500/690 V, tripping unit ETU300 LSI optimized for standard applications, without display, basic protection LT, ST, INST, including protection of the N conductor (internal neutral point sensor available) trip alarm switch (1 x CO), connection at rear 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		
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	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	106.151 kg		
Net Weight	93.151 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	830 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 70 °C / rated value	3860 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 (lcu)			
• at 500 V / rated value	85 kA		
at 690 V / rated value	66 kA		
operating short-circuit current breaking capacity (Ics)			
• at 500 V / rated value	85 kA		
at 690 V / rated value	66 kA		
short-circuit current making capacity (lcm)			
at 500 V / rated value	187 kA		

a at COO V / rated visiting	AAE LA		
• 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 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	10101		
• 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		
display and function keys	No		
 SENTRON powerconfig configuration software 	No		
Basic protection functions			
product feature / for L-tripping			
• can be switched on/off	No		
selectable characteristic function	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 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 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			
selectable characteristic function	No		

Further protective functions				
protection function • maintenance mode DAS+	Yes			
Measuring functions	165			
measurement function	Voo			
current measurement Communication	Yes			
Communication communication function	No			
	No			
Service Life mechanical service life (operating cycles)				
without support / typical	10000			
with our support / typical with support / typical	20000			
electrical endurance (operating cycles)	20000			
at 690 V / without support / typical	2000			
at 690 V / with support / typical at 690 V / with support / typical	20000			
Dimensions	20000			
height	437 mm			
width	590 mm			
depth	357 mm			
Main connection	007 111111			
arrangement of electrical connectors / for main current circuit	main connection on the rear, he	orizontal		
Auxiliary circuit	main connection on the rear, in	onzontai		
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			
Environmental footprint				
Siemens Eco Profile (SEP)	Siemens EcoTech			
Certificates				
reference code				
according to IEC 81346-2	Q			
General Product Approval		EMV	Radio Equipment Type Approval Certi- ficate	











Miscellaneous

Test Certificates Maritime application other

Special Test Certificate

Miscellaneous







Manufacturer Declaration Confirmation

Transport Information







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=3WA1240-4AB12-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3WA1240-4AB12-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

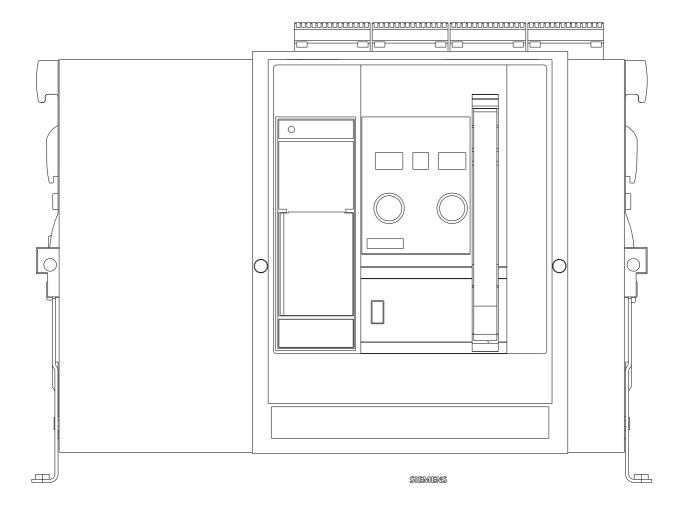
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1240-4AB12-0AA0

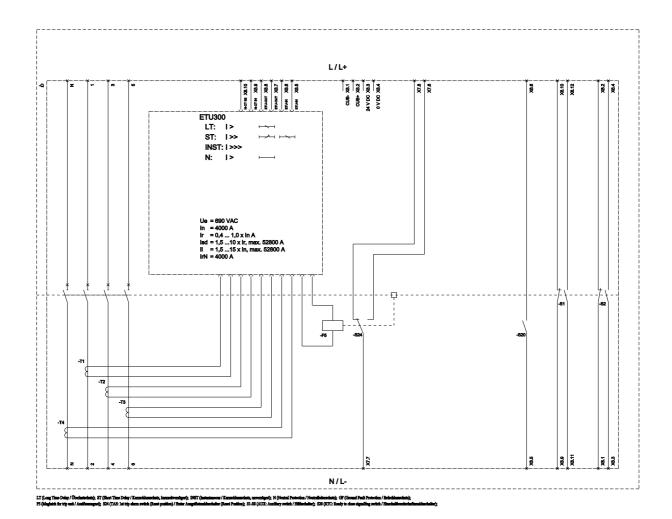
CAx-Online-Generator

http://www.siemens.com/cax

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

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





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