SIEMENS

Data sheet



Fixed-mounted circuit breaker 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, 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	II	
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	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 (Ics)		
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 interference	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	437 mm		
width	460 mm		
depth	357 mm		
Main connection			
arrangement of electrical connectors / for main current circuit	main connection on the rear, vertical		
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		EMV	



Confirmation



CE EG-Konf.





Miscellaneous

Special Test Certificate

Miscellaneous







other 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=3WA1240-4AB01-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3WA1240-4AB01-0AA0

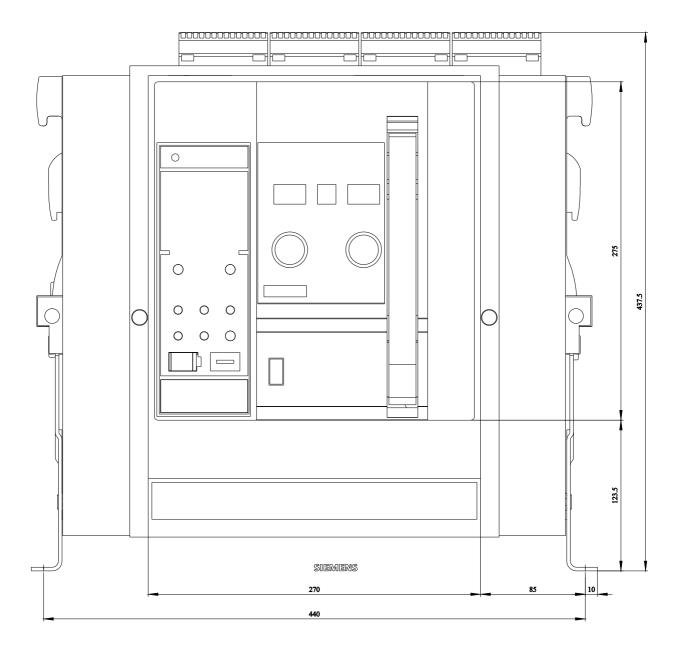
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WA1240-4AB01-0AA0

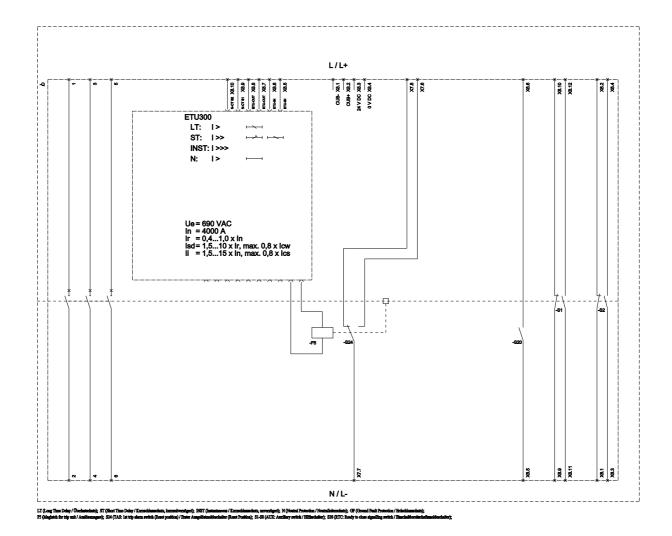
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http://www.siemens.com/cax

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

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





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