

withdrawable circuit breaker without guide frame 3-pole, size II, IEC
 $I_n=1250\text{A}$ to 690V, AC50/60Hz $I_{cu}=80\text{kA}$ at 500V rear connection
 horizontal Overcurrent release ETU 27 LSING protection adjustable 0.4-1
 in Ground fault/N protection integrated Motorized/manual operating
 mechanism with spring charging motor AC 50/60 Hz 110-127 V AC or 110-
 125 V DC Activation 50/60 Hz 110 V AC, 110 V DC With 1st auxiliary
 release Shunt release "F", F1 50/60 Hz 110 V AC/110 V DC, 100% on-load
 factor With 2nd auxiliary release "R", F3 Undervoltage, instant. 110-127 V
 AC, 110-125 V DC 4NO+4NC

Model	
product brand name	SENTRON
product designation	ACB
design of the product	IEC 60947-2
design of the actuating element	Pushbutton
type of the driving mechanism	Manual/motorized operating mechanism with mechanical and electrical closing
type of the driving mechanism / motor drive	Yes
design of the overcurrent release	ETU27B
General technical data	
number of poles	3
size of the circuit-breaker	2
utilization category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage U_i	1 000 V
insulation voltage / rated value	1 000 V
operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Protection class	
protection class IP	IP20
protection class IP / on the front	IP20
protection function of the overcurrent release	LSING
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	55 W
• maximum	165 W
Current	
operational current	
• at 40 °C / rated value	1 250 A
• at 45 °C / rated value	1 250 A
• at 50 °C / rated value	1 250 A
• at 55 °C / rated value	1 250 A
• at 60 °C / rated value	1 250 A
• at 65 °C / rated value	1 250 A
• at 70 °C / rated value	1 210 A
continuous current / rated value / maximum	1 250 A
continuous current / rated value	1 250 A
adjustable current response value current	
• of instantaneous short-circuit trip unit / minimum	25 000 A
• of instantaneous short-circuit trip unit / maximum	25 000 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz

Auxiliary circuit		
number of NC contacts / for auxiliary contacts	4	
number of NO contacts / for auxiliary contacts	4	
Suitability		
suitability for use	Plant / motor protection	
Product details		
product component		
• trip indicator	Yes	
• voltage trigger	Yes	
• undervoltage release	Yes	
design of the auxiliary switch	4 NO + 4 NC	
product extension / optional / motor drive	No	
Product function		
product function		
• grounding protection	Yes	
• phase failure detection	Yes	
Display and operation		
display version	without display	
Short circuit		
operating short-circuit current breaking capacity (Ics)		
• at 415 V / rated value	80 kA	
• at 500 V / rated value	80 kA	
• at 690 V / rated value	75 kA	
maximum short-circuit current breaking capacity (Icu)		
• at 415 V / rated value	80 kA	
• at 500 V / rated value	80 kA	
• at 690 V / rated value	75 kA	
Connections		
arrangement of electrical connectors / for main current circuit	without guide frame	
type of electrical connection / for main current circuit	Blade contacts	
Mechanical Design		
height	411.5 mm	
width	451 mm	
depth	337 mm	
fastening method	drawer unit	
Environmental conditions		
ambient temperature / during operation		
• minimum	-20 °C	
• maximum	70 °C	
ambient temperature / during storage		
• minimum	-40 °C	
• maximum	70 °C	
General Product Approval		EMC
		Declaration of Conformity
Confirmation     		
Test Certificates		Marine / Shipping
Type Test Certificates/Test Report Special Test Certificate Miscellaneous   		
Marine / Shipping		other



other

Dangerous Good

Miscellaneous

Transport Information

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1212-3DG35-5FM4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1212-3DG35-5FM4>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1212-3DG35-5FM4

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



