

withdrawable circuit breaker with guide frame 3-pole, size II, IEC
 $I_n=2500A$ to 690V, AC50/60Hz $I_{cu}=100kA$ at 500V w. connection
 flange Overcurrent release ETU 45 LSING protection adjustable 0.4-
 1 in with cubicle bus and Ground fault protection Opt.:
 Comm./measuring func./ZSS 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 without 2nd auxiliary release 4NO+4NC



Model	
Product brand name	SENTRON
Product designation	ACB
Design of the auxiliary switch	4 NO + 4 NC
Design of the product	IEC 60947-2
Design of the operating mechanism	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	ETU45B

General technical data

Number of poles	3
Size of the circuit-breaker	2
Usage category	B
circuit-breaker / Design	3WL1

Voltage

Rated insulation voltage U_i	1 000 V
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Protection class

Protection class IP	IP20
Protection class IP / on the front	IP20
Protective function of the overcurrent release	LSING

Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	173.3 W
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Electricity

Operating current / at 45 °C / rated value	2 500 A
Continuous current / rated value	2 500 A
Adjustable pick-up value current	
• of instantaneous short-circuit trip unit / initial value	3 750 A
• of instantaneous short-circuit trip unit / Full-scale value	30 000 A

Main circuit

Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Operating current	
• at 40 °C / rated value	2 500 A
• at 50 °C / rated value	2 500 A
• at 55 °C / rated value	2 500 A
• at 60 °C / rated value	2 500 A
• at 65 °C / rated value	2 500 A
• at 70 °C / rated value	2 280 A





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	No
Product extension / optional / motor drive	No
Product function	
Product function	
• Ground fault protection	Yes
• Phase failure detection	Yes
Display and operation	
Display version	without display
Short circuit	
Operational short-circuit current breaking capacity (Ics)	
• at 415 V / rated value	100 kA
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 415 V / rated value	100 kA
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 kA
Connections	
Arrangement of electrical connectors / for main current circuit	Rear connection flange
Type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
Height	465.5 mm
Width	460 mm
Depth	429.5 mm
Mounting type	drawer unit
Environmental conditions	
Ambient temperature	
_____	-20 ... +70 °C
_____	-40 ... +70 °C

Certificates

Reference code

- acc. to DIN EN 61346-2 Q
- acc. to DIN EN 81346-2 Q

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
 CCC	 VDE	 EG-Konf.	Special Test Certificate Miscellaneous  ABS

Shipping Approval	other			
 BUREAU VERITAS	 LRS	 PRS	 RMRS	CCS / China Classification Society Environmental Confirmations

other
Manufacturer Declaration Confirmation Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1225-4EG38-5FA4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1225-4EG38-5FA4>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1225-4EG38-5FA4

CAX-Online-Generator

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

Tender specifications

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

last modified:

02/07/2020