

withdrawable circuit breaker without guide frame 3-pole, size I, IEC
 $I_n=2000A$ to 690V, AC50/60Hz $I_{cu}=85kA$ at 500V rear connection
 horizontal 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 208-240 V or 220-250 V DC Activation AC 50/60 Hz
 230 V, 220 V DC With 1st auxiliary release Shunt release "F", F1 50/60 Hz
 230 V AC/220 V DC, 100% on-load factor With 2nd auxiliary release "RC",
 F4 Undervoltage, Delay 0.2-3.2s 208-240 V AC, 220-250 V DC, 100% ED
 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	ETU45B
General technical data	
number of poles	3
size of the circuit-breaker	1
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	146.7 W
• maximum	440 W
Current	
operational current	
• at 40 °C / rated value	2 000 A
• at 45 °C / rated value	2 000 A
• at 50 °C / rated value	2 000 A
• at 55 °C / rated value	2 000 A
• at 60 °C / rated value	1 930 A
• at 65 °C / rated value	1 930 A
• at 70 °C / rated value	1 780 A
continuous current / rated value / maximum	2 000 A
continuous current / rated value	2 000 A
adjustable current response value current	
• of the current-dependent overload release / full-scale value	2 000 A
• of instantaneous short-circuit trip unit / minimum	3 000 A
• of instantaneous short-circuit trip unit / maximum	24 000 A
Main circuit	
operating frequency	

• 1 / rated value • 2 / rated value	50 Hz 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
Adjustable parameters	
adjustable current response value current	
• of the L-trip / with I_{4t} characteristic / initial value • of the L-trip / with I_{4t} characteristic / full-scale value	800 A 2 000 A
adjustable current response value current / of the current-dependent overload release / initial value	800 A
Product details	
product component	
• trip indicator • voltage trigger • undervoltage release	Yes Yes Yes
design of the auxiliary switch	4 NO + 4 NC
product extension / optional / motor drive	No
Product function	
product function	
• grounding protection • phase failure detection	Yes Yes
Display and operation	
display version	without display
Short circuit	
breaking capacity operating short-circuit current (I _{cs})	
• at 415 V / rated value • at 500 V / rated value • at 690 V / rated value	85 kA 85 kA 66 kA
breaking capacity maximum short-circuit current (I _{cu})	
• at 415 V / rated value • at 500 V / rated value • at 690 V / rated value	85 kA 85 kA 66 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	311 mm
depth	337 mm
fastening method	drawer unit
Environmental conditions	
ambient temperature / during operation	
• minimum • maximum	-20 °C 70 °C
ambient temperature / during storage	
• minimum • maximum	-40 °C 70 °C
General Product Approval	
EMC	
Declaration of Conformity	



[Confirmation](#)



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[Miscellaneous](#)



Marine / Shipping

other

[CCS / China Classification Society](#)



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Dangerous Good

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Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1120-4EG35-4GS4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1120-4EG35-4GS4>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1120-4EG35-4GS4

CAX-Online-Generator

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

Tender specifications

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



