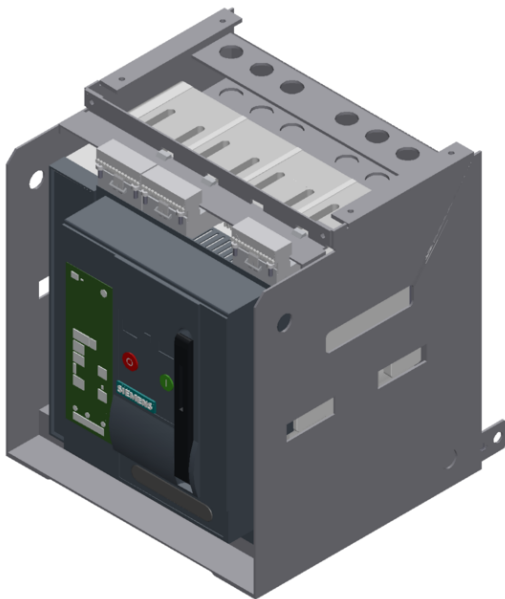


withdrawable circuit breaker with guide frame 4-pole, size I, IEC  
 $I_n=1600A$  to 690V, AC50/60Hz  $I_{cu}=66kA$  at 500V w. connection  
 flange Overcurrent release ETU 27 LSING protection adjustable 0.4-  
 1 in Ground fault/N protection integrated Motorized/manual operating  
 mechanism with spring charging motor AC 50/60 Hz 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 without 2nd auxiliary release 2NO+2NC K01=  
 automatic reset after trip K07= Tripped signaling contact, 1 CO not  
 possible with option F02 K13= Remote reset magnet 220-240 V  
 DC/250 V DC



Model	
Product brand name	SENTRON
Product designation	ACB
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	ETU27B
<b>General technical data</b>	
Number of poles	4
Size of the circuit-breaker	1
Usage category	B
circuit-breaker / Design	3WL1
<b>Voltage</b>	
Rated insulation voltage $U_i$	1 000 V
Operating voltage	690 V
• at AC / at 50/60 Hz / rated value	
<b>Protection class</b>	
Protection class IP	IP20
Protection class IP / on the front	IP20
protection function of the overcurrent release	LSING
<b>Dissipation</b>	
Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	116.7 W
<b>Current</b>	
Operating current / at 45 °C / rated value	1 600 A
Continuous current / rated value	1 600 A
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	1 600 A
• of instantaneous short-circuit trip unit / initial value	32 000 A
• of instantaneous short-circuit trip unit / Full-scale value	32 000 A
<b>Main circuit</b>	
Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating current	
• at 40 °C / rated value	1 600 A
• at 50 °C / rated value	1 600 A
• at 55 °C / rated value	1 600 A
• at 60 °C / rated value	1 600 A
• at 65 °C / rated value	1 600 A
• at 70 °C / rated value	1 490 A
<b>Auxiliary circuit</b>	






Number of NC contacts / for auxiliary contacts	2
Number of NO contacts / for auxiliary contacts	2
<b>Suitability</b>	
Suitability for use	Plant / motor protection
<b>Adjustable parameters</b>	
Adjustable pick-up value current / of the current-dependent overload release / initial value	640 A
<b>Product details</b>	
Product component	
• Trip indicator	Yes
• Voltage trigger	Yes
• undervoltage release	No
Product extension / optional / motor drive	No
<b>Product function</b>	
Product function	
• Ground fault protection	Yes
• Phase failure detection	Yes
<b>Display and operation</b>	
Display version	without display
<b>Short circuit</b>	
Operational short-circuit current breaking capacity (Ics)	
• at 415 V / rated value	66 kA
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 415 V / rated value	66 kA
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
<b>Connections</b>	
Arrangement of electrical connectors / for main current circuit	Rear connection flange
Type of electrical connection / for main current circuit	busbar connection
<b>Mechanical Design</b>	
Height	460 mm
Width	410 mm
Depth	429.5 mm
Mounting type	drawer unit
<b>Environmental conditions</b>	

Ambient temperature / during operation	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-20 °C</p> <p>70 °C</p>
Ambient temperature / during storage	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	<p>-40 °C</p> <p>70 °C</p>

## Certificates

Reference code	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> <li>• acc. to DIN EN 81346-2</li> </ul>	<p>Q</p> <p>Q</p>

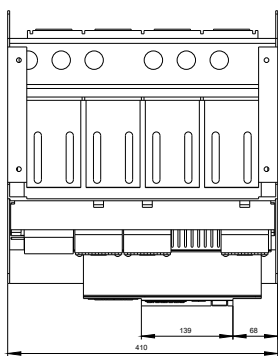
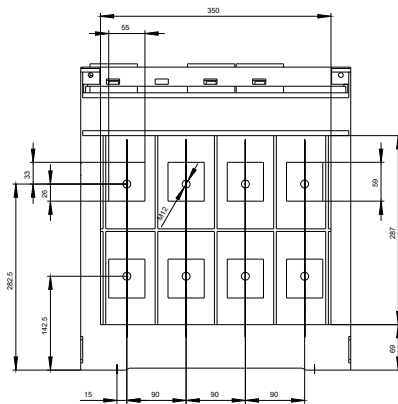
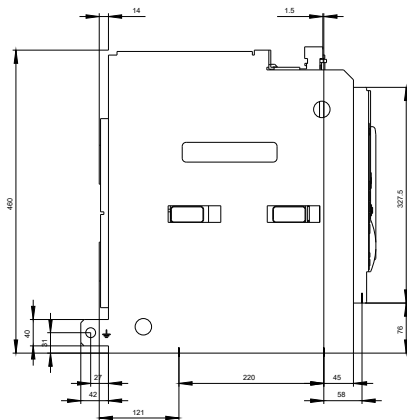
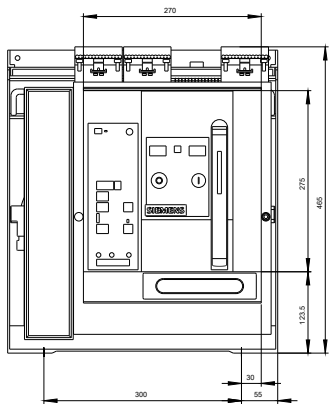
General Product Approval	Declaration of Conformity	Test Certificates
 <p>CCC</p>	 <p>CB</p>	 <p>VDE</p>
	 <p>EG-Konf.</p>	<p><a href="#">Special Test Certificate</a></p> <p><a href="#">Miscellaneous</a></p>

Shipping Approval					
 <p>ABS</p>	 <p>BUREAU VERITAS</p>	 <p>LRS</p>	 <p>PRS</p>	 <p>RMRS</p>	<p><a href="#">CCS / China Classification Society</a></p>

other			
<a href="#">Environmental Confirmations</a>	<a href="#">Manufacturer Declaration</a>	<a href="#">Confirmation</a>	<a href="#">Miscellaneous</a>

## Further information

- Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-3DG48-4GA2-Z K01+K07+K13>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-3DG48-4GA2-Z K01+K07+K13>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3WL1116-3DG48-4GA2-Z K01+K07+K13](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-3DG48-4GA2-Z K01+K07+K13)
- CAX-Online-Generator**  
<http://www.siemens.com/cax>
- Tender specifications**  
<http://www.siemens.com/specifications>





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05/08/2020