

WITHDRAWABLE CIRCUIT BREAKER WITH GUIDE
FRAME 3-POLE, SIZE I, IEC IN=1600A TO 690V,
AC50/60HZ ICU=55KA AT 500V REAR CONNECTION
VERTICAL

Model		
product brandname		SENTRON
Product designation		ACB
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		1
Electrical endurance (switching cycles) / typical		20 000
Usage category		B
circuit-breaker / Design		3WL1116
Mechanical service life (switching cycles) / typical		20 000
Voltage		
Rated insulation voltage U_i	V	1 000
Insulation voltage / rated value	V	1 000
Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSING
Dissipation		
Power loss [W]		
<ul style="list-style-type: none"> for rated value of the current / at AC / in hot operating state / per pole 	W	116.7
<ul style="list-style-type: none"> maximum 	W	350
Electricity		
Continuous current / rated value	A	1 600
Adjustable pick-up value current		
<ul style="list-style-type: none"> of instantaneous short-circuit trip unit / initial value 	A	2 400
<ul style="list-style-type: none"> of instantaneous short-circuit trip unit / Full-scale value 	A	19 200

Short-time current resistance (I_{cw})		
• limited to 0.5 s / rated value	kA	55
• limited to 1 s / rated value	kA	42
• limited to 2 s / rated value	kA	29.5
• limited to 3 s / rated value	kA	24

Main circuit

Operating frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Operating voltage		
• at AC / at 50/60 Hz / rated value	V	690
Operating current		
• at 40 °C / rated value	A	1 600
• at 50 °C / rated value	A	1 600
• at 55 °C / rated value	A	1 600

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
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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

Display and operation

Display version		WITH 4-LINE DISPLAY
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Short circuit

Operational short-circuit current breaking capacity (I_{cs})		
• at 415 V / rated value	kA	55
• at 500 V / rated value	kA	55
• at 690 V / rated value	kA	42
Maximum short-circuit current breaking capacity (I_{cu})		
• at 415 V / rated value	kA	55

• at 500 V / rated value	kA	55
• at 690 V / rated value	kA	42
Short-circuit current making capacity (I_{cm})		
• at 415 V / rated value	kA	121
• at 500 V / rated value	kA	121
• at 690 V / rated value	kA	88

Connections

Arrangement of electrical connectors / for main current circuit		Main terminal on the rear vertical
Type of electrical connection / for main current circuit		busbar connection

Mechanical Design

Height	mm	460
Width	mm	320
Depth	mm	458.5
Mounting type		drawer unit

Environmental conditions

Ambient temperature		
• during operation / minimum	°C	-20
• during operation / maximum	°C	55
• during storage / minimum	°C	-40
• during storage / maximum	°C	70

Certificates

Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval	Declaration of Conformity	Test Certificates
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CCC



VDE



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Shipping Approval



ABS



BUREAU VERITAS



DNV



GL



LRS



PRS

Shipping Approval	other
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RMRS

[Umweltbestätigung](#)

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Further information

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1116-2FG37-4GG4-Z K07>

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

<http://support.automation.siemens.com/WW/view/en/3WL1116-2FG37-4GG4-Z K07/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3WL1116-2FG37-4GG4-Z K07

CAX-Online-Generator

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

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

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