



WITHDRAWABLE CIRCUIT BREAKER WITHOUT
GUIDE FRAME 3-POLE, SIZE II, IEC IN=1600A TO
690V, AC50/60HZ ICU=80KA AT 500V REAR
CONNECTION HORIZONTAL

Model		
product brand name		SENTRON
Product designation		ACB
Design of the operating mechanism		Pushbutton
Type of the driving mechanism		Manual operating mechanism with mechanical closing
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU27B
General technical data		
Number of poles		3
Size of the circuit-breaker		2
Electrical endurance (switching cycles) / typical		15 000
Usage category		B
circuit-breaker / Design		3WL1216
Mechanical service life (switching cycles) / typical		15 000
Voltage		
Rated insulation voltage Ui	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]		
• for rated value of the current / at AC / in hot operating state / per pole	W	58.7
• maximum	W	175
Electricity		
Continuous current / rated value	A	1 600
Adjustable pick-up value current		
• of instantaneous short-circuit trip unit / initial value	A	32 000
• of instantaneous short-circuit trip unit / Full-scale value	A	32 000
Short-time current resistance (I _{cw})		
• limited to 0.5 s / rated value	kA	80
• limited to 1 s / rated value	kA	66
• limited to 2 s / rated value	kA	46
• limited to 3 s / rated value	kA	44
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
• at 60 °C / rated value	A	1 600
• at 65 °C / rated value	A	1 600
• at 70 °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
Product details		
Product component		

• Trip indicator		Yes
• Voltage trigger		No
• undervoltage release		No
Product extension / optional / motor drive		Yes

Product function

Product function		
• Ground fault protection		Yes

Display and operation

Display version		without display
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Short circuit

Operational short-circuit current breaking capacity (Ics)		
• at 415 V / rated value	kA	80
• at 500 V / rated value	kA	80
• at 690 V / rated value	kA	75
Maximum short-circuit current breaking capacity (Icu)		
• at 415 V / rated value	kA	80
• at 500 V / rated value	kA	80
• at 690 V / rated value	kA	75
Short-circuit current making capacity (Icm)		
• at 415 V / rated value	kA	176
• at 500 V / rated value	kA	176
• at 690 V / rated value	kA	165

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	mm	411.5
Width	mm	451
Depth	mm	337
Mounting type		drawer unit

Environmental conditions

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

Certificates

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

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General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
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spezielle
Prüfbescheinigungen
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Shipping Approval	other
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GL



LRS



PRS



RMRS

Umweltbestätigung

other

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Further information

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1216-3DG35-1AA4>

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

<http://support.automation.siemens.com/WW/view/en/3WL1216-3DG35-1AA4/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1216-3DG35-1AA4

CAX-Online-Generator

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

Tender specifications

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

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