

WITHDRAWABLE CIRCUIT BREAKER WITH GUIDE
FRAME 4-POLE, SIZE I, IEC IN=1600A TO 690V,
AC50/60HZ ICU=66KA AT 500V REAR CONNECTION
HORIZONTAL

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		ETU27B

General technical data		
Number of poles		4
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 Ui	V	1 000
Insulation voltage / rated value	V	1 000

Protection class		
Protection class IP		IP41
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	116.7
• maximum	W	350

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	66
• limited to 1 s / rated value	kA	50
• limited to 2 s / rated value	kA	35
• limited to 3 s / rated value	kA	29
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	1 490
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
Display and operation		
Display version		without display
Short circuit		
Operational short-circuit current breaking capacity (I_{cs})		
• at 415 V / rated value	kA	66

• at 500 V / rated value	kA	66
• at 690 V / rated value	kA	50
Maximum short-circuit current breaking capacity (Icu)		
• at 415 V / rated value	kA	66
• at 500 V / rated value	kA	66
• at 690 V / rated value	kA	50
Short-circuit current making capacity (Icm)		
• at 415 V / rated value	kA	145
• at 500 V / rated value	kA	145
• at 690 V / rated value	kA	105

Connections

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

Mechanical Design

Height	mm	460
Width	mm	410
Depth	mm	456
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		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval				Declaration of Conformity	Test Certificates
					spezielle Prüfbescheinigunge n
CB	CCC	VDE		EG-Konf.	

Test Certificates	Shipping Approval				
sonstig					
	ABS	BUREAU VERITAS	DNV	GL	LRS

Shipping Approval	other	
		Umweltbestätigung sonstig
PRS	RMRS	

Further information

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1116-3DG46-5FA4-Z_C11+C22+F23+K07+R16+R21+T40

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

http://support.automation.siemens.com/WW/view/en/3WL1116-3DG46-5FA4-Z_C11+C22+F23+K07+R16+R21+T40/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-3DG46-5FA4-Z_C11+C22+F23+K07+R16+R21+T40

CAX-Online-Generator

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

Tender specifications

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

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