

FIXED-MOUNTED CIRCUIT BREAKER 3-POLE, SIZE I, IEC IN=1600A TO 690V, AC50/60HZ ICU=55KA 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/motorized operating mechanism with mechanical and electrical closing
Type of the driving mechanism / motor drive		Yes
Design of the overcurrent release		ETU25B

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 Ui	V	1 000

Protection class		
Protection class IP		IP41
Protective function of the overcurrent release		LSI

Dissipation		
Power loss [W]		
• for rated value of the current / at AC / in hot operating state / per pole	W	50
• maximum	W	150

Electricity		
Operating current / at 45 °C / rated value	A	1 600
Continuous current / rated value	A	1 600
Adjustable pick-up value current		
• of the current-dependent overload release / Full-scale value	A	1 600
• 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 • limited to 2 s / rated value • limited to 3 s / rated value	kA kA kA	55 29.5 24
Main circuit		
Operating frequency • 1 / rated value • 2 / rated value	Hz Hz	50 60
Operating voltage • at AC / at 50/60 Hz / rated value	V	690
Operating current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 70 °C / rated value	A A A A A A	1 600 1 600 1 600 1 600 1 600 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
Adjustable parameters		
Adjustable pick-up value current / of the current-dependent overload release / initial value	A	640
Product details		
Product component • Trip indicator • Voltage trigger • undervoltage release		Yes Yes Yes
Product extension / optional / motor drive		No
Product function		
Product function • Ground fault protection • Phase failure detection		No Yes
Display and operation		
Display version		without display

Short circuit

Operational short-circuit current breaking capacity (Ics)		
• 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 (Icu)		
• at 415 V / rated value	kA	55
• at 500 V / rated value	kA	55
• at 690 V / rated value	kA	42
Short-time current resistance (Icw) / limited to 1 s / rated value	kA	42

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	439.5
Width	mm	320
Depth	mm	337
Mounting type		fixed mounting

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		Shipping Approval
			Miscellaneous	Special Test Certificate	
CCC	VDE	EG-Konf.			ABS

Shipping Approval					
					
BUREAU VERITAS	DNV	GL	LRS	PRS	RMRS

other	
Environmental Confirmations	Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-2CB32-4GS4-Z C11+C22+T40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-2CB32-4GS4-Z C11+C22+T40>

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

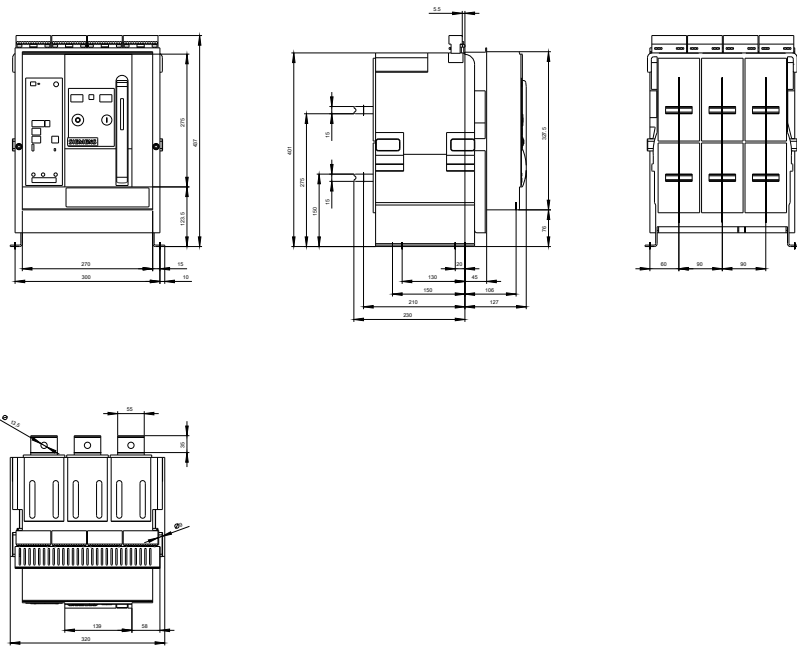
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2CB32-4GS4-Z C11+C22+T40

CAX-Online-Generator

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

Tender specifications

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



last modified:

09/15/2017