

FIXED-MOUNTED CIRCUIT BREAKER 3-POLE, SIZE I, IEC IN=1600A TO 690V, AC50/60HZ ICU=55KA AT 500V FRNT.CONN. TOP/BOT. SINGLE-HOLE



Model		
product brandname		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		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
Insulation voltage / rated value	V	1 000

Protection class		
Protection class IP		IP20
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		
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	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
• at 60 °C / rated value	A	1 600
• at 65 °C / rated value	A	1 600
• at 70 °C / rated value	A	1 490
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		No
Ground fault protection		
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
Connections		
Arrangement of electrical connectors / for main current circuit		Main connection top front/bottom single hole
Type of electrical connection / for main current circuit		busbar connection
Mechanical Design		
Height	mm	462
Width	mm	320
Depth	mm	374
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	
 CCC	 VDE		 EG-Konf.	spezielle Prüfbescheinigungen n	sonstig

Shipping Approval					
 ABS	 BUREAU VERITAS	 DNV	 GL	 LRS	 PRS

Shipping Approval	other				
 RMRS	Umweltbestätigung	sonstig			

Further information

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1116-2CB33-1AA2>

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

<http://support.automation.siemens.com/WW/view/en/3WL1116-2CB33-1AA2/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2CB33-1AA2

CAX-Online-Generator

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

Tender specifications

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

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