

WITHDRAWABLE CIRCUIT BREAKER WITHOUT
GUIDE FRAME 3-POLE, SIZE I, IEC IN=630A 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		ETU76B
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		3WL1106
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]		
• for rated value of the current / at AC / in hot operating state / per pole	W	65
• maximum	W	195
Electricity		
Continuous current / rated value	A	630
Adjustable pick-up value current		
• of instantaneous short-circuit trip unit / initial value	A	945
• of instantaneous short-circuit trip unit / Full-scale value	A	52 800

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	630
• at 50 °C / rated value	A	630
• at 55 °C / rated value	A	630
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		With fully-graphical 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 (I_{cu})		
• at 415 V / rated value	kA	66
• at 500 V / rated value	kA	66
• at 690 V / rated value	kA	50
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	311
Depth	mm	337
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
 CB  CCC  VDE  EAC  EG-Konf.		sonstig

Test Certificates	Shipping Approval
spezielle Prüfbescheinigung n	 ABS  BUREAU VERITAS  DNV  GL  LRS

Shipping Approval	other
 PRS  RMRS	Umweltbestätigung sonstig

Further information

Industry Mall (Online ordering system)
<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3WL1106-3NG35-5FA4-Z C22+F02+F05+R15+R21>

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

<http://support.automation.siemens.com/WW/view/en/3WL1106-3NG35-5FA4-Z C22+F02+F05+R15+R21/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1106-3NG35-5FA4-Z C22+F02+F05+R15+R21

CAX-Online-Generator

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

Tender specifications

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

last modified:

10/25/2016