SIEMENS

Show actual product details

Data sheet 3WL1116-2CB38-1AA2-Z K07+R21

WITHDRAWABLE CIRCUIT BREAKER WITH GUIDE FRAME 3-POLE, SIZE I, IEC IN=1600A TO 690V, AC50/60HZ ICU=55KA AT 500V W. CONNECTION FLANGE

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	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 (Icw)		
• 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

Auxiliary circuit

Number of NC contacts / for auxiliary contacts		2
Number of NO contacts / for auxiliary contacts		2

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		No

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-circuit current making capacity (Icm)		
• at 415 V / rated value	kA	121
• at 500 V / rated value	kA	121
• at 690 V / rated value	kA	88

Connections

Arrangement of electrical connectors / for main current circuit		Rear connection flange
Type of electrical connection / for main current circuit		busbar connection

Mechanical Design

Height	mm	460
Width	mm	320
Depth	mm	429.5
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	
CCC	VDE		EG-Konf.	spezielle Prüfbescheinigungen	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/3WL1116-2CB38-1AA2-Z K07+R21

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3WL1116-2CB38-1AA2-Z K07+R21/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2CB38-1AA2-Z K07+R21

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://ausschreibungstexte.siemens.com/tiplv

last modified: 09/22/2016