SIEMENS

Data sheet 3WL1116-2CB32-1AA2

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 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

Changes preserved
© Copyright Siemens AG

Protection class		
Protection class IP		IP20
Protective function of the overcurrent release		LSI

Dissipation		
Active power loss		
• 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 response value current		
• of the current-dependent overload release / Full-scale value	A	1 600
• of the instantaneous short-circuit release / initial value	A	32 000
• of the instantaneous short-circuit release / 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

Changes preserved
© Copyright Siemens AG

Adjustable parameters		
Adjustable response value current / of the current-dependent overload release / initial value	A	640

Product details		
Product component		
• Trip indicator		Yes
• Voltage trigger		No
• undervoltage release		No
Product expansion / optional / motor drive		Yes

Product function		
Product function		
• Ground fault protection		No
• Phase failure detection		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-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		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		

Changes preserved
© Copyright Siemens AG

• 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	EAC	EG-Konf.	sonstig	spezielle Prüfbescheinigungen

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/3WL11162CB321AA2

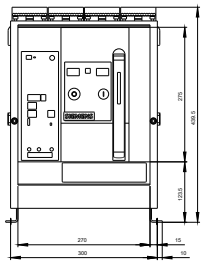
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3WL11162CB321AA2/all

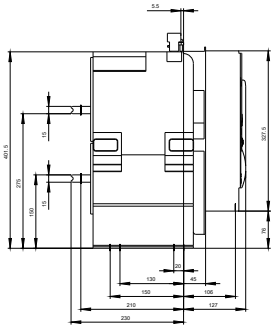
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL11162CB321AA2

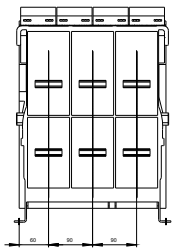
CAx-Online-Generator
http://www.siemens.com/cax

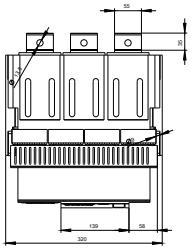
Tender specifications
http://ausschreibungstexte.siemens.com/tiplv

Changes preserved
© Copyright Siemens AG









Changes preserved
© Copyright Siemens AG

last modified: 11.09.2015

Changes preserved
© Copyright Siemens AG