



fixed-mounted circuit breaker 3-pole, size II, IEC
In=2000A to 690V, AC50/60Hz Icu=100kA at 500V rear
connection horizontal Overcurrent release ETU 25 LSI
protection adjustable 0.4-1 in Motorized/manual
operating mechanism with memory Drive motor AC
50/60 Hz 208-240 V or 220-250 V DC Activation AC
50/60 Hz 230 V, 220 V DC With 1st auxiliary release
Shunt release "F", F1 50/60 Hz 230 V AC/220 V DC,
100% on-load factor With 2nd auxiliary release "R", F3
Undervoltage, instant. 208-240 V AC, 220-250 V DC
4NO+4NC

Model		
Product brand name		SENTRON
Product designation		ACB
Design of the product		IEC 60947-2
Design of the auxiliary switch		4 NO + 4 NC
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		2
Electrical endurance (switching cycles) / typical		15 000
Usage category		B
circuit-breaker / Design		3WL1
Mechanical service life (switching cycles) / typical		15 000

Voltage

Rated insulation voltage Ui	V	1 000
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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	60
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Electricity

Operating current / at 45 °C / rated value	A	2 000
Continuous current / rated value	A	2 000
Adjustable pick-up value current		
• of the current-dependent overload release / Full-scale value	A	2 000
• of instantaneous short-circuit trip unit / initial value	A	40 000
• of instantaneous short-circuit trip unit / Full-scale value	A	40 000
Short-time current resistance (Icw)		
• limited to 0.5 s / rated value	kA	100
• limited to 1 s / rated value	kA	85
• limited to 2 s / rated value	kA	65
• limited to 3 s / rated value	kA	50

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	2 000
• at 50 °C / rated value	A	2 000
• at 55 °C / rated value	A	2 000
• at 60 °C / rated value	A	2 000
• at 65 °C / rated value	A	2 000
• at 70 °C / rated value	A	2 000

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
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Adjustable parameters

Adjustable pick-up value current / of the current-dependent overload release / initial value	A	800
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Product details

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

Product function

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

Display and operation

Display version		without display
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Short circuit

Operational short-circuit current breaking capacity (Ics)		
• at 415 V / rated value	kA	100
• at 500 V / rated value	kA	100
• at 690 V / rated value	kA	85
Maximum short-circuit current breaking capacity (Icu)		
• at 415 V / rated value	kA	100
• at 500 V / rated value	kA	100
• at 690 V / rated value	kA	85
• at 1000/1150 V / rated value	kA	50

Connections

Type of electrical connection / for main current circuit		busbar connection
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Mechanical Design

Height	mm	440.5
Width	mm	460
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

Reference code		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q
Waste electronic equipment must not be disposed as unsorted municipal waste, e.g. household waste. For disposing the waste electronic equipment it is necessary to observe the current local national/international regulations.		
		

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
 CCC	 VDE	 EG-Konf.	Special Test Certificate Miscellaneous  ABS

Shipping Approval	other
 BUREAU VERITAS	Environmental Conformations  GL
 LRS	 PRS
 RMRS	

other
Manufacturer Declaration Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-4CB32-4GN4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-4CB32-4GN4>

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

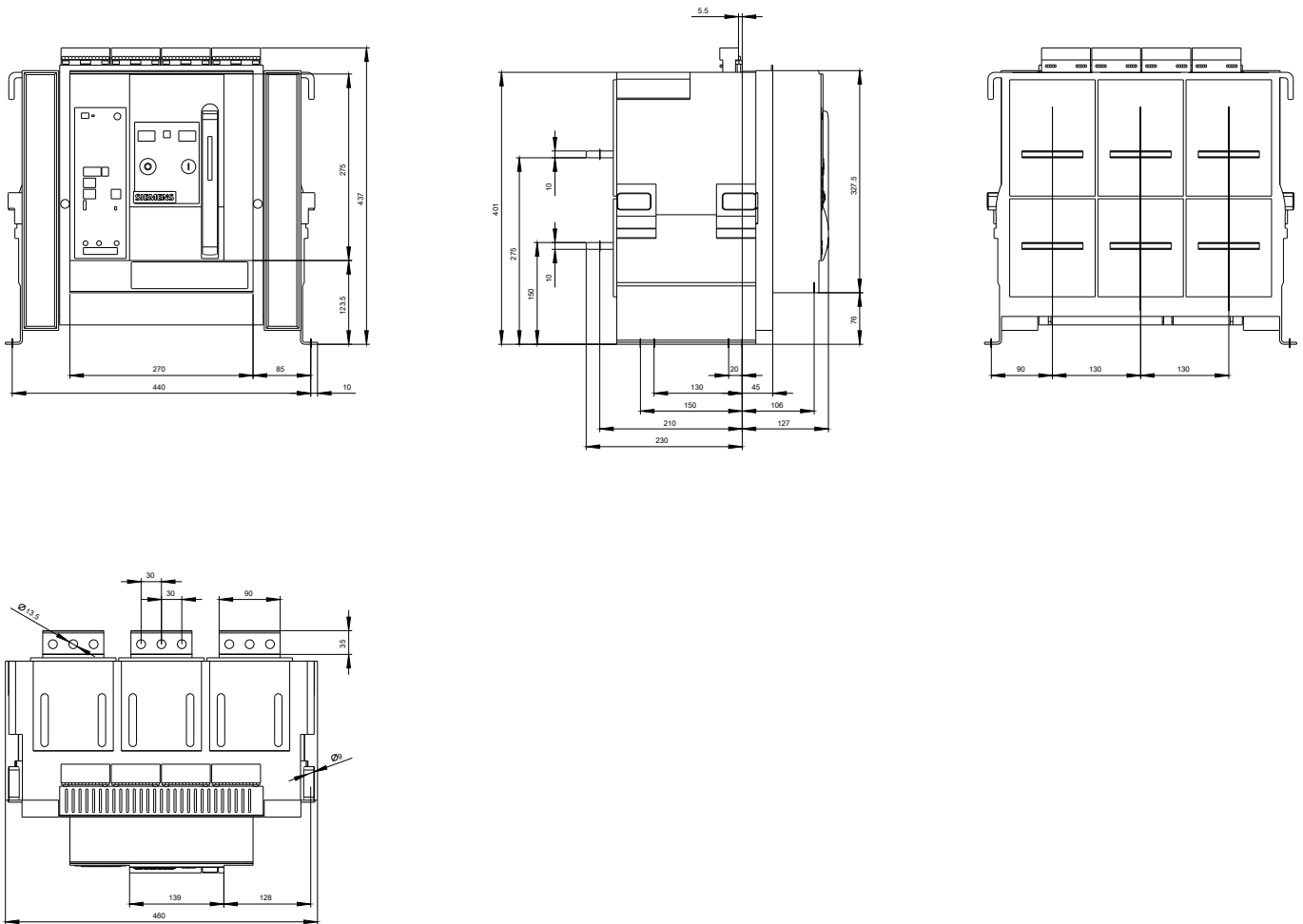
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-4CB32-4GN4

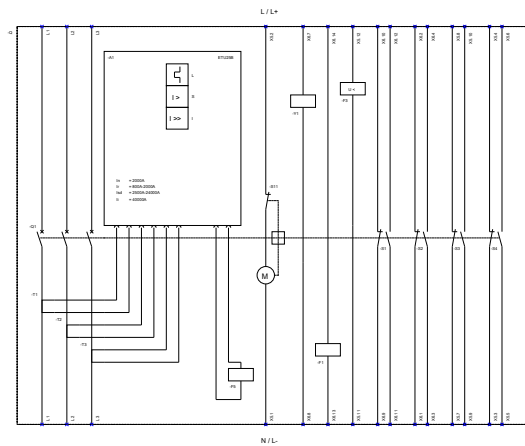
CAX-Online-Generator

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

Tender specifications

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





1: Closing Time Delay / (Überstromschutz), 2: (Short Time Delay / Kurzschlusschutz, Kurzschlussverzögerung), 3: Undercurrent / (Unterstromschutz, unterstromig)
 201: Internal motor shutdown switch, if spring is released / Interner Motorschaltvorrichtung, wenn Feder gelassen, 21: (The auxiliary release / Stütz-Hilfsauslösung)
 P1: (Interlocking release / Verriegelungsausschaltung), P2: (Interlocking for top unit / Verriegelungsglied), 31: (30: (Auxiliary switch / Hilfskontakt), 11: (Closing unit / Schließvorrichtung)

last modified:

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