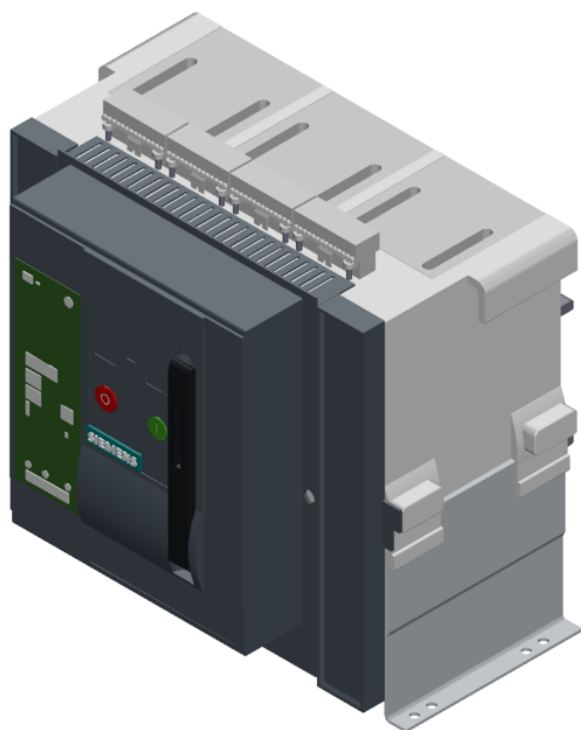


Fixed-mounted circuit breaker 3-pole, Size 2, IEC
In=2000 A to 690 V, 50/60 Hz AC Icu=80 kA at 500 V
Rear horizontal connection



Model		
Product brand name		SENTRON
Product designation		ACB
Design of the product		IEC 60947-2
Design of the auxiliary switch		2 NO + 2 NC
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		2
Electrical endurance (switching cycles) / typical		15 000
Usage category		B
circuit-breaker / Design		3WL1220
Mechanical service life (switching cycles) / typical		15 000

Voltage		
Rated insulation voltage U_i	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	60

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 (I_{cw})		
• limited to 0.5 s / rated value	kA	80
• limited to 1 s / rated value	kA	66
• limited to 2 s / rated value	kA	46
• limited to 3 s / rated value	kA	44

Main circuit		
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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		2
Number of NO contacts / for auxiliary contacts		2

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		No
• undervoltage release		No
Product extension / optional / motor drive		Yes

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	80
• at 500 V / rated value	kA	80
• at 690 V / rated value	kA	75
Maximum short-circuit current breaking capacity (Icu)		
• at 415 V / rated value	kA	80

- at 500 V / rated value
- at 690 V / rated value

kA	80
kA	75

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	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

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

Shipping Approval	other
 BUREAU VERITAS	 GL
 LRS	 PRS
	 RMRS
	Environmental Confirmations

other
Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-3CB32-1AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-3CB32-1AA2>

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

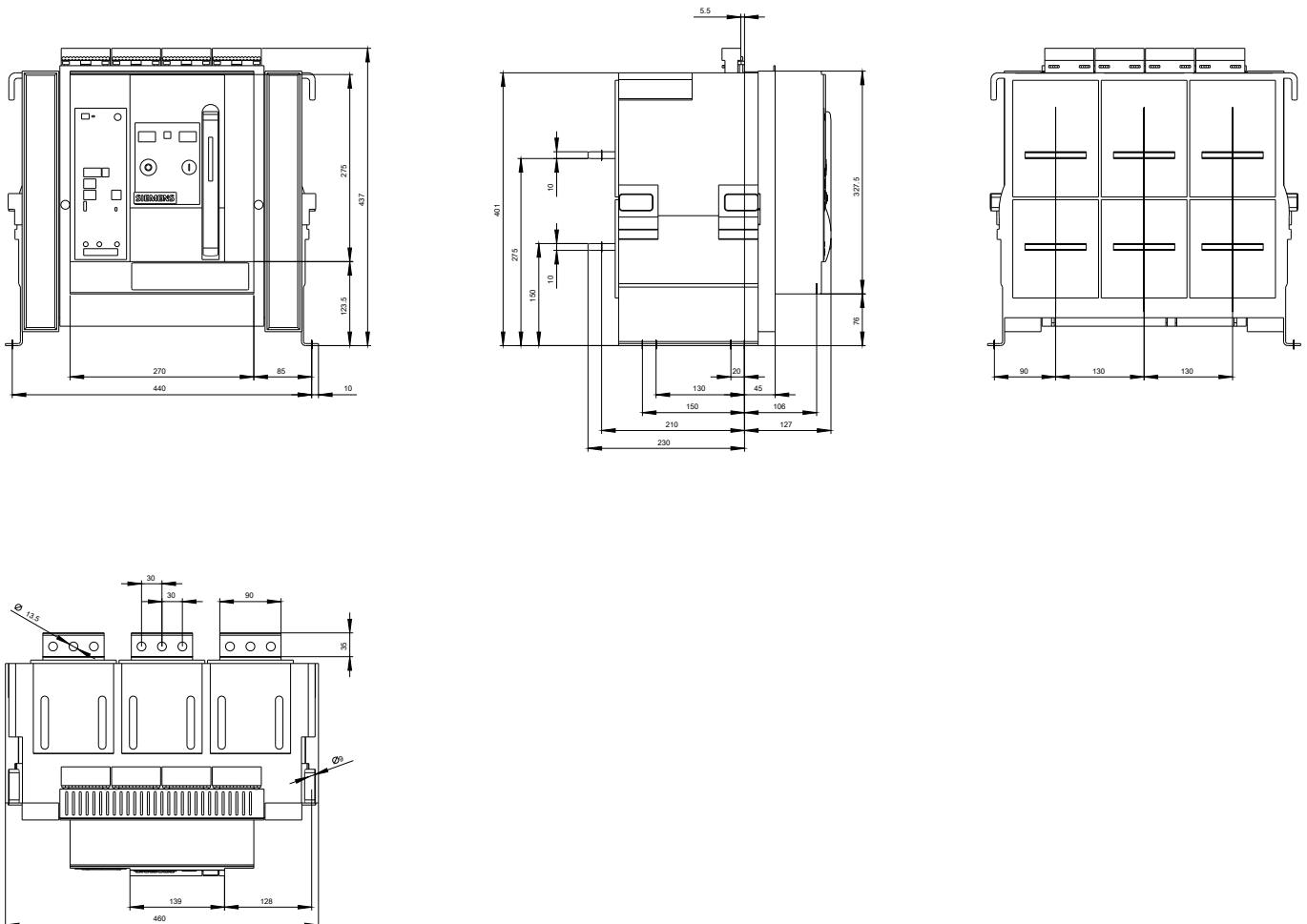
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-3CB32-1AA2

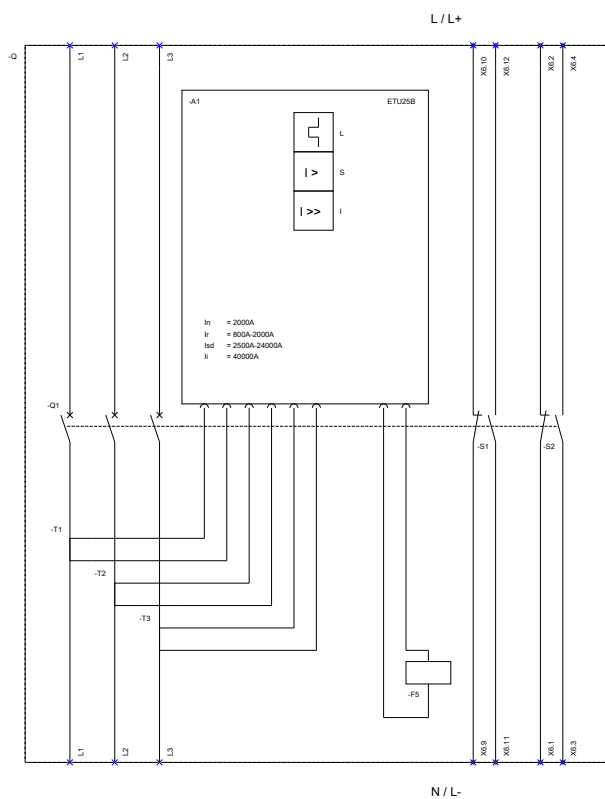
CAX-Online-Generator

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

Tender specifications

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





L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlusschutz, kurzzeitverzögert);
 I (Instantaneous / Kurzschlusschutz, unverzögert); F5 (Maglatch for trip unit / Auslösemagnet);
 S1 - S8 (Auxiliary switch / Hilfschalter);

last modified:

06/11/2018