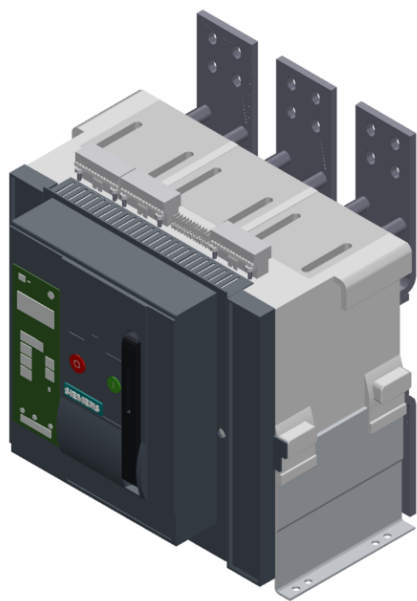


fixed-mounted circuit breaker 3-pole, size II, IEC In=2000A to 690V, AC50/60Hz Icu=66kA at 500V frnt.conn. top/bot. dual-hole
Overcurrent release ETU45 LSIN protection adjustable 0.4-1 in with display and cubicle bus Opt.: Comm. /measuring func./ground fault/ ZSS Motorized/manual operating mechanism 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 without 2nd auxiliary release 2NO+2NC



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/motorized operating mechanism with mechanical and electrical closing
Type of the driving mechanism / motor drive	Yes
Design of the overcurrent release	ETU45B

General technical data

Number of poles	3
Size of the circuit-breaker	2
Usage category	B
circuit-breaker / Design	3WL1

Voltage

Rated insulation voltage U_i	1 000 V
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Protection class

Protection class IP	IP20
Protection class IP / on the front	IP20
Protective function of the overcurrent release	LSIN

Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	60 W
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Electricity

Operating current / at 45 °C / rated value	2 000 A
Continuous current / rated value	2 000 A
Adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	2 000 A
• of instantaneous short-circuit trip unit / initial value	3 000 A
• of instantaneous short-circuit trip unit / Full-scale value	24 000 A

Main circuit

Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Operating current	
• at 40 °C / rated value	2 000 A
• at 50 °C / rated value	2 000 A
• at 55 °C / rated value	2 000 A

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
Adjustable parameters	
Adjustable pick-up value current / of the current-dependent overload release / initial value	800 A
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	No
• Phase failure detection	Yes
Display and operation	
Display version	WITH 4-LINE DISPLAY
Short circuit	
Operational short-circuit current breaking capacity (Ics)	
• at 415 V / rated value	66 kA
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 415 V / rated value	66 kA
• at 500 V / rated value	66 kA
• at 690 V / rated value	50 kA
Connections	
Arrangement of electrical connectors / for main current circuit	Main connection top front/bottom double hole
Type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
Height	507 mm
Width	460 mm
Depth	369 mm
(mounting type)	fixed mounting
Environmental conditions	
Ambient temperature	
• during operation / minimum	-20 °C

- during operation / maximum
- during storage / minimum
- during storage / maximum

55 °C
-40 °C
70 °C

Certificates

Reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

Q
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	Environmental Confirmations Manufacturer Declaration  LRS
 PRS	 RMRS

other

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-2FB34-4GA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-2FB34-4GA2>

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

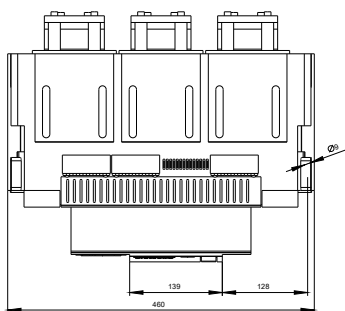
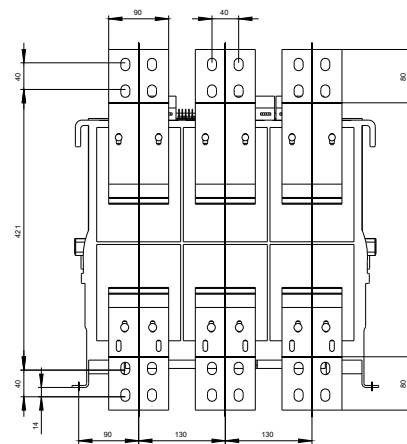
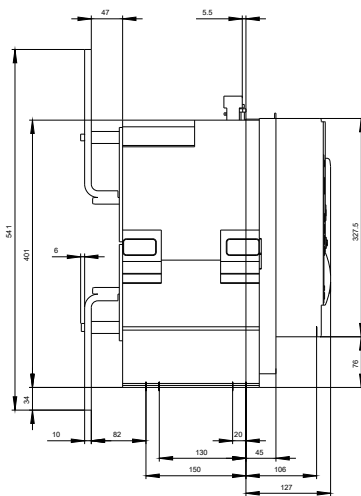
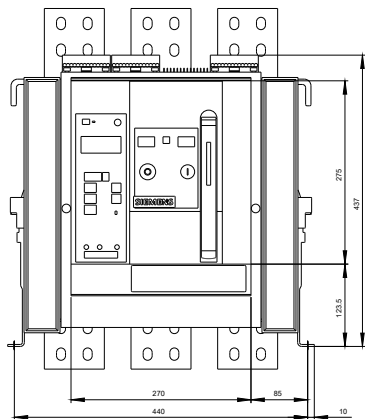
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-2FB34-4GA2

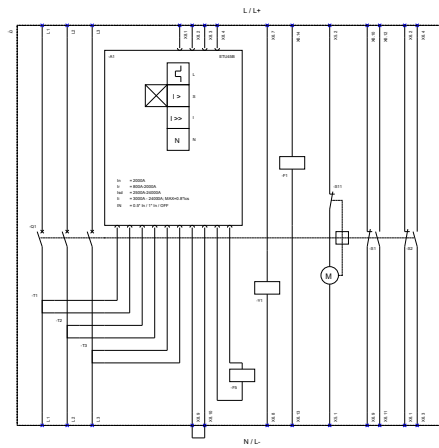
CAX-Online-Generator

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

Tender specifications

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





1: (Long Time Delay / Übersetzungszeit), 2: (Short Time Delay / Kurzschlusszeit, Kurzschlusszeit), 3: (Instantaneous / Kurzschlusszeit, unversögelt)
 4: (Peaklet Protection / Stoßstromschutz), 5: (1) (Internal motor shutdown switch, if spring is locked) / (Motor-Motorschuttschalter, wenn Feder gespannt)
 6: (1) (Motor release / Motor-Entlastung), 7: (Spring for top unit / Feder für obere Einheit), 8: (1) (Spring for bottom unit / Feder für untere Einheit), 9: (1) (Spring for top unit / Feder für obere Einheit), 10: (1) (Spring for bottom unit / Feder für untere Einheit), 11: (1) (Spring for top unit / Feder für obere Einheit), 12: (1) (Spring for bottom unit / Feder für untere Einheit)

last modified:

04/02/2019