

fixed-mounted circuit breaker 3-pole, size I, IEC In=1600A to 690V, AC50/60Hz Icu=66kA at 500V frnt.conn. top/bot. single-hole
 Overcurrent release ETU 25 LSI protection adjustable 0.4-1 in
 Motorized/manual operating mechanism with spring charging motor
 AC 50/60 Hz 208-240 V or 220-250 V DC Activation AC 50/60 Hz 230 V, 220 V DC without 1st auxiliary release With 2nd auxiliary release "R", F3 Undervoltage, instant. 208-240 V AC, 220-250 V DC 2NO+2NC



Model	
product brand name	SENTRON
product designation	ACB
design of the product	IEC 60947-2
design of the actuating element	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	1
utilization category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage U_i	1 000 V
insulation voltage / rated value	1 000 V
operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
Protection class	
protection class IP	IP20
protection class IP / on the front	IP20
protection function of the overcurrent release	LSI
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	50 W
• maximum	150 W
Current	
continuous current / rated value / maximum	1 600 A
continuous current / rated value	1 600 A
adjustable current response value current	
• of the current-dependent overload release / full-scale value	1 600 A
• of instantaneous short-circuit trip unit / initial value	32 000 A
• of instantaneous short-circuit trip unit / full-scale value	32 000 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
operational current	
• at 40 °C / rated value	1 600 A
• at 50 °C / rated value	1 600 A
• at 55 °C / rated value	1 600 A
• at 60 °C / rated value	1 600 A
• at 65 °C / rated value	1 600 A

- at 70 °C / rated value

1 490 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
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Adjustable parameters

adjustable current response value current / of the current-dependent overload release / initial value	640 A
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Product details

product component	
<ul style="list-style-type: none"> • trip indicator 	Yes
<ul style="list-style-type: none"> • voltage trigger 	No
<ul style="list-style-type: none"> • undervoltage release 	Yes
design of the auxiliary switch	2 NO + 2 NC
product extension / optional / motor drive	No

Product function

product function	
<ul style="list-style-type: none"> • grounding protection 	No
<ul style="list-style-type: none"> • phase failure detection 	Yes

Display and operation

display version	without display
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Short circuit

breaking capacity operating short-circuit current (Ics)	
<ul style="list-style-type: none"> • at 415 V / rated value 	66 kA
<ul style="list-style-type: none"> • at 500 V / rated value 	66 kA
<ul style="list-style-type: none"> • at 690 V / rated value 	50 kA
<ul style="list-style-type: none"> • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value 	66 kA
<ul style="list-style-type: none"> • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value 	66 kA
<ul style="list-style-type: none"> • breaking capacity maximum short-circuit current (Icu) / at 690 V / rated value 	50 kA

Connections

arrangement of electrical connectors / for main current circuit	Main connection top front/bottom single hole
type of electrical connection / for main current circuit	busbar connection

Mechanical Design

height	462 mm
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width	320 mm
depth	374 mm
fastening method	fixed mounting




Environmental conditions

ambient temperature / during operation	
• minimum	-20 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C

Certificates

reference code	
• acc. to DIN EN 61346-2	Q
• acc. to IEC 81346-2	Q

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

Shipping Approval	other
 LRS	CCS / China Classification Society
 PRS	Environmental Conformations
 RMRS	Manufacturer Declaration

other
Confirmation
Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-3CB33-4AN2>

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

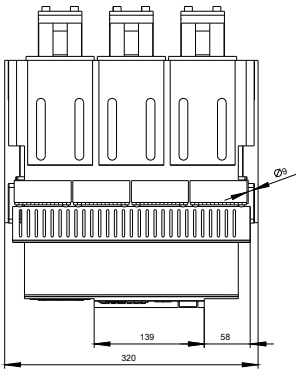
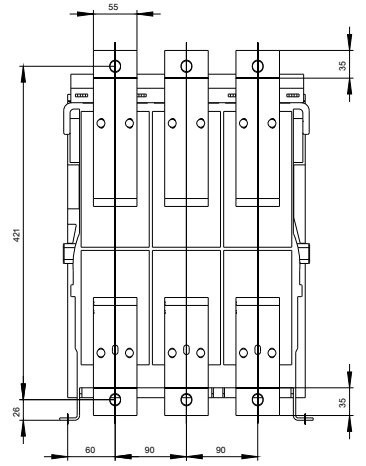
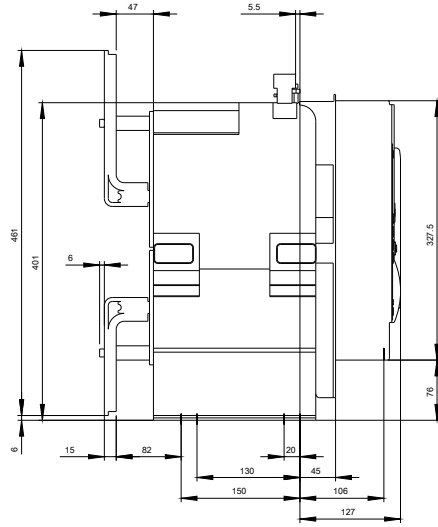
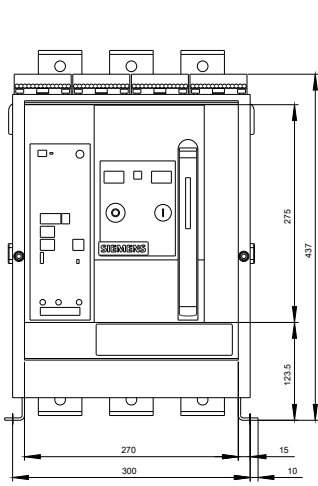
<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-3CB33-4AN2>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-3CB33-4AN2

CAX-Online-Generator

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



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