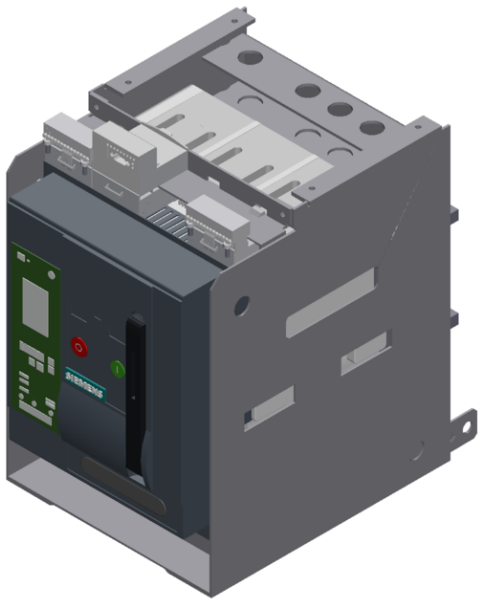




Draw-out circuit breaker with slide-in module frame 3-pole, Size 1, IEC In=1600 A up to 690 V, 50/60 Hz AC Icu=55 kA at 500 V Rear horizontal connection Overcurrent release ETU 76 LSING protection adjustable 0.4-1 in with graphic display U cubicle bus with ground fault protection Opt.: Comm./measuring func./ZSI 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 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 "F", F2 Shunt release 230 V AC/220 V DC, 100% on-load factor 5NO+3NC C01= mechanical switching cycle counter C22= Ready indicator F02= COM15 PROFIBUS module with breaker status sensor F36= Metering PLUS Voltage-tap bottom side I, U, P,W, Q, f, cos phi, harmonics, THD, R15= Position signaling switch, withdrawable part 3 changeover contacts R21= Shutter 2-part can be locked with padlock R68= RONIS locking device against unauthorized closing T40= Door sealing frame

Model	
product brand name	SENTRON
product designation	ACB
design of the product	IEC 60947-2
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	ETU76B

General technical data

number of poles	3
size of the circuit-breaker	1
usage category	B
circuit-breaker / Design	3WL1

Voltage

Rated insulation voltage U_i	1 000 V
operating voltage at AC / at 50/60 Hz / rated value	690 V

Protection class

protection class IP	IP20
protection function of the overcurrent release	LSING

Dissipation

power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	116.7 W
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Current

operating current / at 45 °C / rated value	1 600 A
continuous current / rated value	1 600 A
adjustable pick-up value current - of the current-dependent overload release / full-scale value - of instantaneous short-circuit trip unit / initial value - of instantaneous short-circuit trip unit / full-scale value	1 600 A 2 400 A 44 000 A

Main circuit

operating frequency 1 / rated value 2 / rated value	50 Hz 60 Hz
operating current - at 40 °C / rated value - at 50 °C / rated value - at 55 °C / rated value	1 600 A 1 600 A 1 600 A

Auxiliary circuit

number of NC contacts / for auxiliary contacts	3
number of NO contacts / for auxiliary contacts	5

Suitability	
suitability for use	Plant / motor protection
Adjustable parameters	
adjustable pick-up value current	
• of the L-trip / with I4t characteristic / initial value	640 A
• of the L-trip / with I4t characteristic / full-scale value	1 600 A
adjustable pick-up value current / of the current-dependent overload release / initial value	640 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	Yes
• phase failure detection	Yes
Display and operation	
display version	With fully-graphical display
Short circuit	
operational short-circuit current breaking capacity (Ics)	
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
maximum short-circuit current breaking capacity (Icu)	
• at 415 V / rated value	55 kA
• at 500 V / rated value	55 kA
• at 690 V / rated value	42 kA
Connections	
arrangement of electrical connectors / for main current circuit	Main connection rear side horizontal
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	460 mm
width	320 mm
depth	456 mm
mounting type	drawer unit

Environmental conditions

ambient temperature / during operation	
• minimum	-40 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C

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
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CCC

CB

CB



VDE



EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)

Shipping Approval



ABS



BUREAU
VERITAS



LRS



PRS



RMRS

[CCS / China Classification Society](#)

other

[Environmental Confirmations](#)

[Manufacturer Declaration](#)

[Confirmation](#)

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-2NG66-4GG8-Z C01+C22+F02+F36+R15+R21+R68+T40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-2NG66-4GG8-Z C01+C22+F02+F36+R15+R21+R68+T40>

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

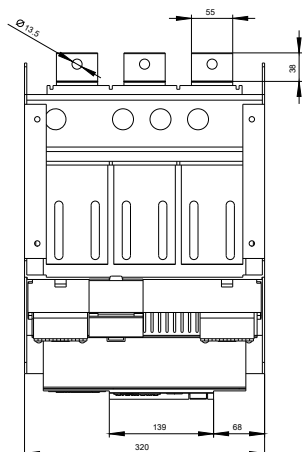
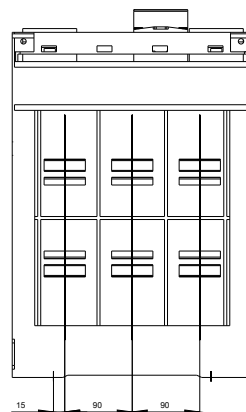
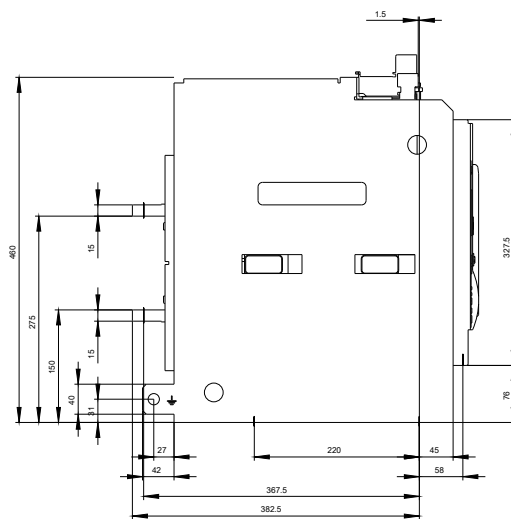
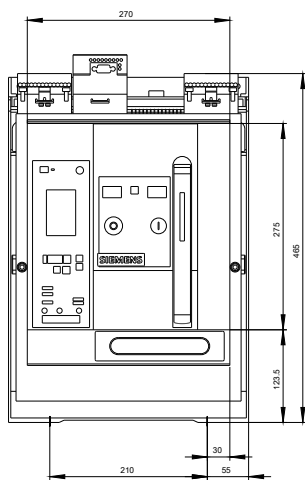
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-2NG66-4GG8-Z C01+C22+F02+F36+R15+R21+R68+T40

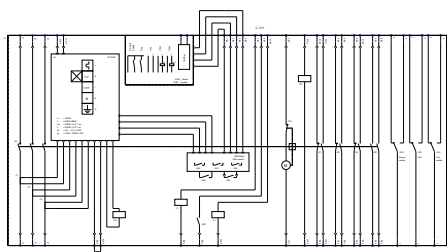
CAX-Online-Generator

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

Tender specifications

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





last modified:

08/31/2020