



withdrawable circuit breaker without guide frame 3-pole, size II, IEC
In=2000A to 690V, AC50/60Hz Icu=80kA at 500V rear connection
horizontal 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
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 "RC", F4 Undervoltage, Delay 0.2-3.2s
208-240 V AC, 220-250 V DC, 100% ED 4NO+4NC C22= Ready
indicator K07= Tripped signaling contact, 1 CO not possible with
option F02 R10= Arc chute cover withdrawable part not possible with
option A05 Rated voltage 1000 V R21= Shutter 2-part can be locked
with padlock

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	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
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	LSIN
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	106.7 W
• maximum	320 W
Current	
continuous current / rated value / maximum	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 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	4
number of NO contacts / for auxiliary contacts	4
Suitability	
suitability for use	Plant / motor protection
Adjustable parameters	
adjustable pick-up value current	
• of the L-trip / with I _{4t} characteristic / initial value	800 A
• of the L-trip / with I _{4t} characteristic / full-scale value	2 000 A
adjustable pick-up value current / of the current-dependent overload release / initial value	800 A
Product details	
product component	
• trip indicator	Yes
• voltage trigger	No
• undervoltage release	Yes
design of the auxiliary switch	4 NO + 4 NC
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 (I _{cs})	
• at 415 V / rated value	80 kA
• at 500 V / rated value	80 kA
• at 690 V / rated value	75 kA
maximum short-circuit current breaking capacity (I _{cu})	
• at 415 V / rated value	80 kA
• at 500 V / rated value	80 kA
• at 690 V / rated value	75 kA
Connections	
arrangement of electrical connectors / for main current circuit	without guide frame
type of electrical connection / for main current circuit	Blade contacts
Mechanical Design	
height	411.5 mm

width	451 mm
depth	337 mm
mounting type	drawer unit

Environmental conditions

ambient temperature / during operation	
• minimum	-20 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °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	Shipping Approval
 CCC	 VDE	 EG-Konf.	Miscellaneous Special Test Certificate  ABS

Shipping Approval	other
 BUREAU VERITAS	CCS / China Classification Society Environmental Confirmations  LRS  PRS  RMRS

other
Manufacturer Declaration Confirmation Miscellaneous

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-3FB35-4AS4-Z C22+K07+R10+R21>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-3FB35-4AS4-Z C22+K07+R10+R21>

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

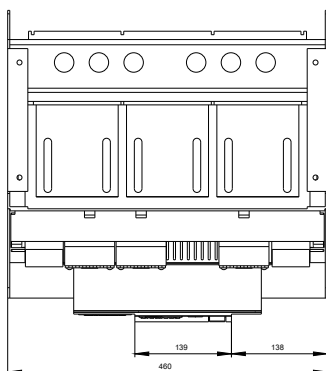
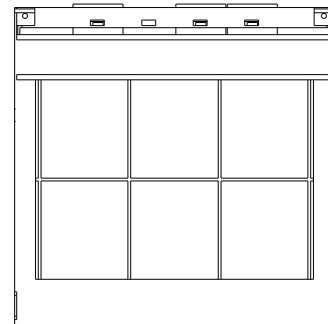
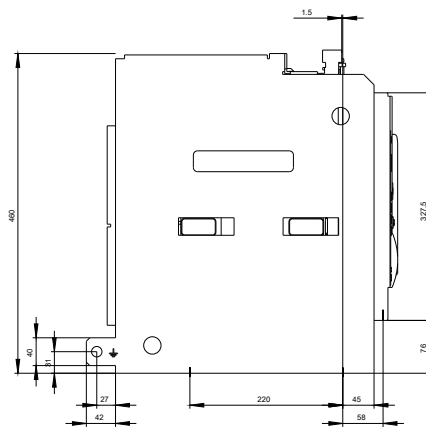
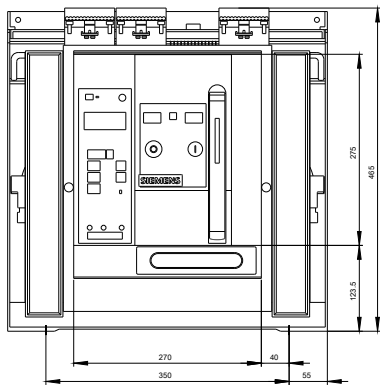
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-3FB35-4AS4-Z C22+K07+R10+R21

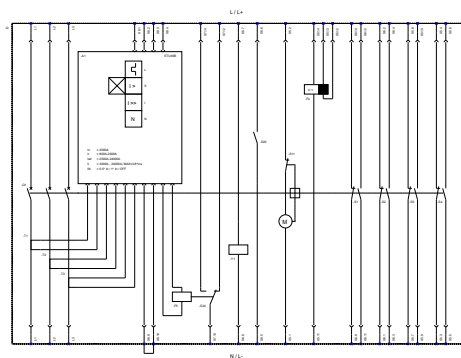
CAX-Online-Generator

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

Tender specifications

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





1. 3WL1220-3FB35-4AS4-Z
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 12. 3WL1220-3FB35-4AS4-Z

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