

withdrawable circuit breaker without guide frame 3-pole, size II, IEC
 $I_n=1600\text{A}$ to 690V, AC50/60Hz $I_{cu}=80\text{kA}$ at 500V rear connection
 horizontal Overcurrent release ETU 45 LSING protection adjustable 0.4-1
 in with cubicle bus and Ground fault protection Opt.: Comm./measuring
 func./ZSS Motorized/manual operating mechanism with spring charging
 motor AC 50/60 Hz 110-127 V AC or 110-125 V DC Activation 50/60 Hz
 110 V AC, 110 V DC With 1st auxiliary release Shunt release "F", F1 50/60
 Hz 110 V AC/110 V DC, 100% on-load factor With 2nd auxiliary release
 "RC", F4 Undervoltage, Delay 0.2-3.2s 110-127 V AC, 110-125 V DC,
 100% ED 4NO+4NC

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	ETU45B
General technical data	
number of poles	3
size of the circuit-breaker	2
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	LSING
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	58.7 W
• maximum	175 W
Current	
operational current	
• at 40 °C / rated value	1 600 A
• at 45 °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	1 600 A
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 / minimum	2 400 A
• of instantaneous short-circuit trip unit / maximum	19 200 A

Main circuit			
operating frequency			
• 1 / rated value		50 Hz	
• 2 / rated value		60 Hz	
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 current response value current			
• of the L-trip / with I _{4t} characteristic / initial value		640 A	
• of the L-trip / with I _{4t} characteristic / full-scale value		1 600 A	
adjustable current response value current / of the current-dependent overload release / initial value		640 A	
Product details			
product component			
• trip indicator		Yes	
• voltage trigger		Yes	
• undervoltage release		Yes	
design of the auxiliary switch		4 NO + 4 NC	
product extension / optional / motor drive		No	
Product function			
product function			
• grounding protection		Yes	
• phase failure detection		Yes	
Display and operation			
display version		without display	
Short circuit			
breaking capacity operating short-circuit current (I _{cs})			
• at 415 V / rated value		80 kA	
• at 500 V / rated value		80 kA	
• at 690 V / rated value		75 kA	
breaking capacity maximum short-circuit current (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	
fastening method		drawer unit	
Environmental conditions			
ambient temperature / during operation			
• minimum		-20 °C	
• maximum		70 °C	
ambient temperature / during storage			
• minimum		-40 °C	
• maximum		70 °C	
General Product Approval		EMC	Declaration of Conformity
			Test Certificates



[UK Declaration of Conformity](#)



[Type Test Certificates/Test Report](#)

Test Certificates	Marine / Shipping
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[Special Test Certificate](#)

[Miscellaneous](#)



Marine / Shipping	other
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[CCS / China Classification Society](#)



[Environmental Confirmations](#)

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

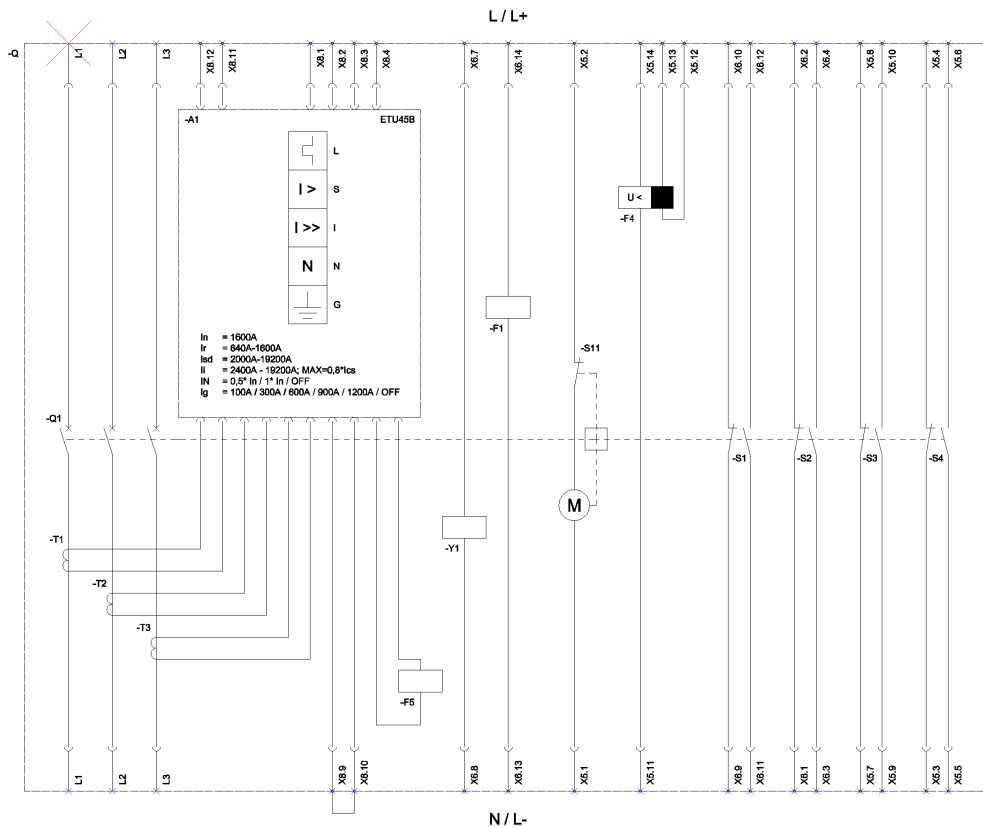
Dangerous Good

[Transport Information](#)

Further information

Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1216-3EG35-5FR4>
 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/ww/en/ps/3WL1216-3EG35-5FR4>
 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1216-3EG35-5FR4
 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); N (Neutral Protection / Neutraleiterschutz); G (Ground Fault Protection / Erdschlusschutz); S11 (Internal motor shutdown switch, if spring is tensioned / Interner Motorabstellschalter, wenn Feder gespannt); F1 (1st auxiliary release / Erster Hilfsauslöser); F4 (Undervoltage release time delayed / Unterspannungsauslöser verzögerbar); F5 (Magnet for trip unit / Auslösemagnet); S1 - S8 (Auxiliary switch / Hilfsschalter); Y1 (Closing coil / Einschaltmagnet);

last modified:

2/14/2022

