

withdrawable circuit breaker without guide frame 4-pole, size I, IEC In=1600A to 690V, AC50/60Hz Icu=66kA at 500V rear connection horizontal Overcurrent release ETU 45 LSING protection adjustable 0.4-1 in with display and cubicle bus with ground fault protection Opt.: Comm./measuring func./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 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 "R", F3 Undervoltage, instant. 50/60 Hz 380-415 V AC 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	ETU45B
General technical data	
number of poles	4
size of the circuit-breaker	1
utilization category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage Ui	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	116.7 W
• maximum	350 W
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
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 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	2 NO + 2 NC
product extension / optional / motor drive	No

Product function		
product function		
• grounding protection	Yes	
• phase failure detection	Yes	
Display and operation		
display version	WITH 4-LINE DISPLAY	
Short circuit		
operating 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	without guide frame	
type of electrical connection / for main current circuit	Blade contacts	
Mechanical Design		
height	411.5 mm	
width	401 mm	
depth	337 mm	
fastening method	drawer unit	
Environmental conditions		
ambient temperature / during operation		
• minimum	-20 °C	
• maximum	55 °C	
ambient temperature / during storage		
• minimum	-40 °C	
• maximum	70 °C	
General Product Approval		EMC
		Declaration of Conformity

[Confirmation](#)



Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)



Marine / Shipping

other



[CCS / China Classification Society](#)



[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

Dangerous Good

Environment

[Transport Information](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1116-3FG45-4GP2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-3FG45-4GP2>

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

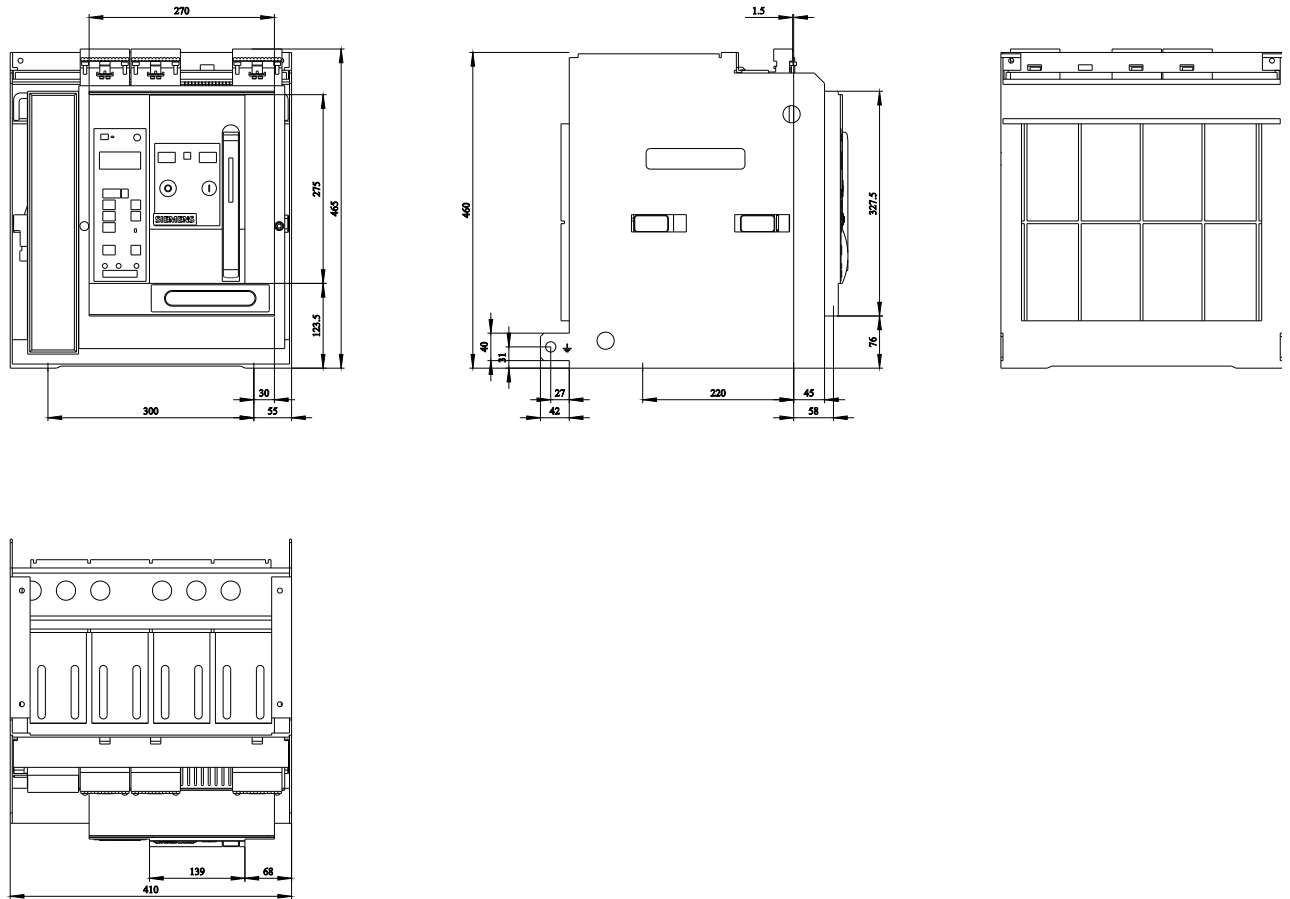
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1116-3FG45-4GP2

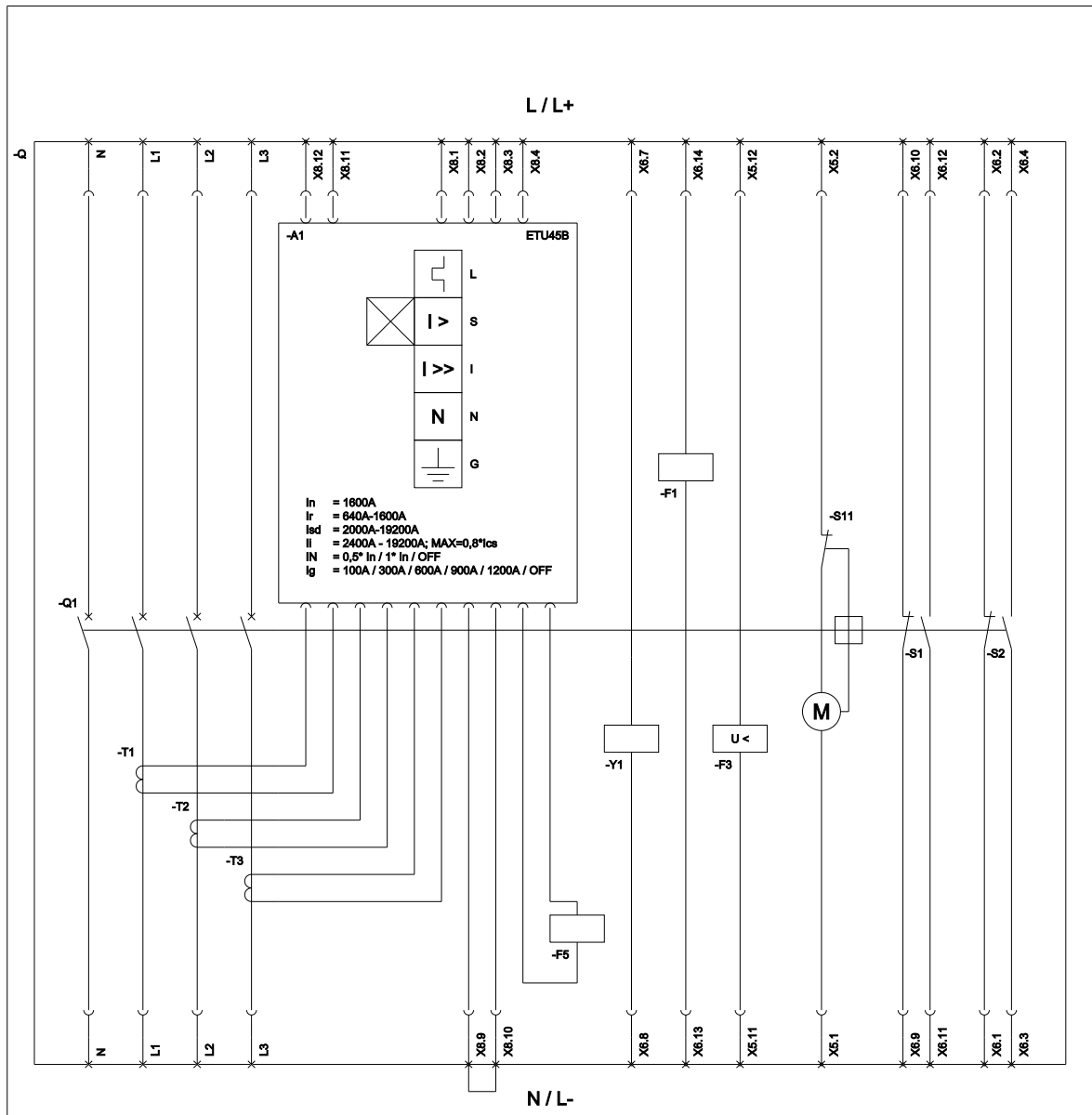
CAX-Online-Generator

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

Tender specifications

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





L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlussschutz, kurzzeitzögernd); I (Instantaneous / Kurzschlussschutz, unverzögernd); N (Neutral Protection / Neutralleiterschutz);
 G (Ground Fault Protection / Erdschlussschutz); S11 (internal motor shutdown switch, if spring is tensioned / Interner Motorabschalterschalter, wenn Feder gespannt);
 F1 (1st auxiliary release / Erster Hilfsauslöser); F3 (Undervoltage release / Unterspannungsauslöser); F5 (Magnet for trip unit / Auslösemagnet); S1 - S8 (Auxiliary switch / Hilfschalter);
 Y1 (Closing coil / Einschaltmagnet);

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