

fixed-mounted circuit breaker 3-pole, size I, IEC In=630A to 690V, AC50/60Hz Icu=55kA 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 With manual operating mechanism with storage with mechanical request without 1st auxiliary release without 2nd auxiliary release 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 operating mechanism with mechanical closing
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU45B
General technical data	
number of poles	3
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	33.3 W
• maximum	100 W
Current	
operational current	
• at 40 °C / rated value	630 A
• at 45 °C / rated value	630 A
• at 50 °C / rated value	630 A
• at 55 °C / rated value	630 A
continuous current / rated value / maximum	630 A
continuous current / rated value	630 A
adjustable current response value current	
• of the current-dependent overload release / full-scale value	630 A
• of instantaneous short-circuit trip unit / minimum	945 A
• of instantaneous short-circuit trip unit / maximum	7 560 A
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 L-trip / with I4t characteristic / initial value • of the L-trip / with I4t characteristic / full-scale value	252 A 630 A	
adjustable current response value current / of the current-dependent overload release / initial value	252 A	
Product details		
product component • trip indicator • voltage trigger • undervoltage release	Yes No No	
design of the auxiliary switch	2 NO + 2 NC	
product extension / optional / motor drive	Yes	
Product function		
product function • grounding protection • phase failure detection	Yes Yes	
Display and operation		
display version	WITH 4-LINE DISPLAY	
Short circuit		
breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value	55 kA 55 kA 42 kA	
breaking capacity maximum short-circuit current (Icu) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value	55 kA 55 kA 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	439.5 mm	
width	320 mm	
depth	337 mm	
fastening method	fixed mounting	
Environmental conditions		
ambient temperature / during operation • minimum • maximum	-20 °C 55 °C	
ambient temperature / during storage • minimum • maximum	-40 °C 70 °C	
General Product Approval		EMC
		Declaration of Conformity

[Confirmation](#)



[UK Declaration of Conformity](#)

Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping

other



[CCS / China Classification Society](#)



[Miscellaneous](#)

[Confirmation](#)

[Environmental Confirmations](#)

other

Dangerous Good

[Miscellaneous](#)

[Transport Information](#)

Further information

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1106-2FG32-1AA2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1106-2FG32-1AA2>

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

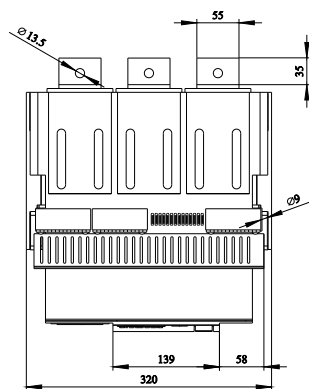
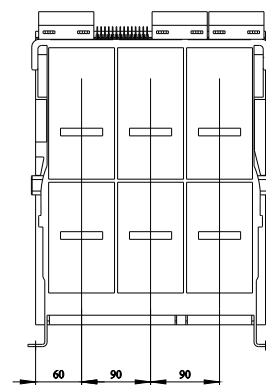
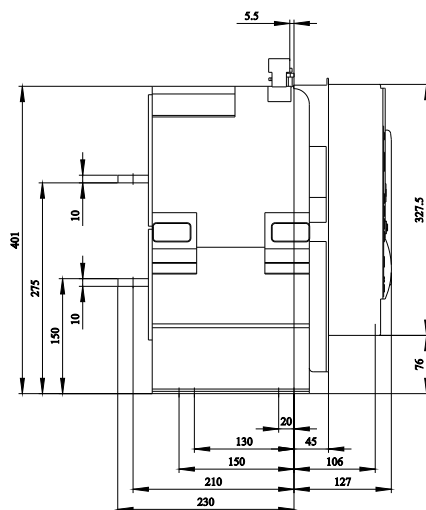
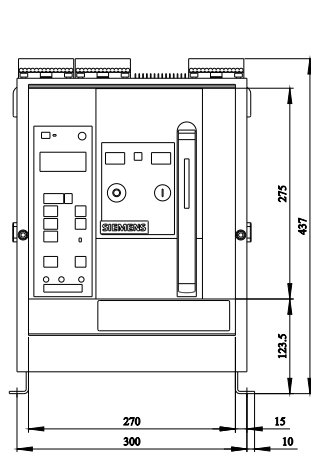
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1106-2FG32-1AA2

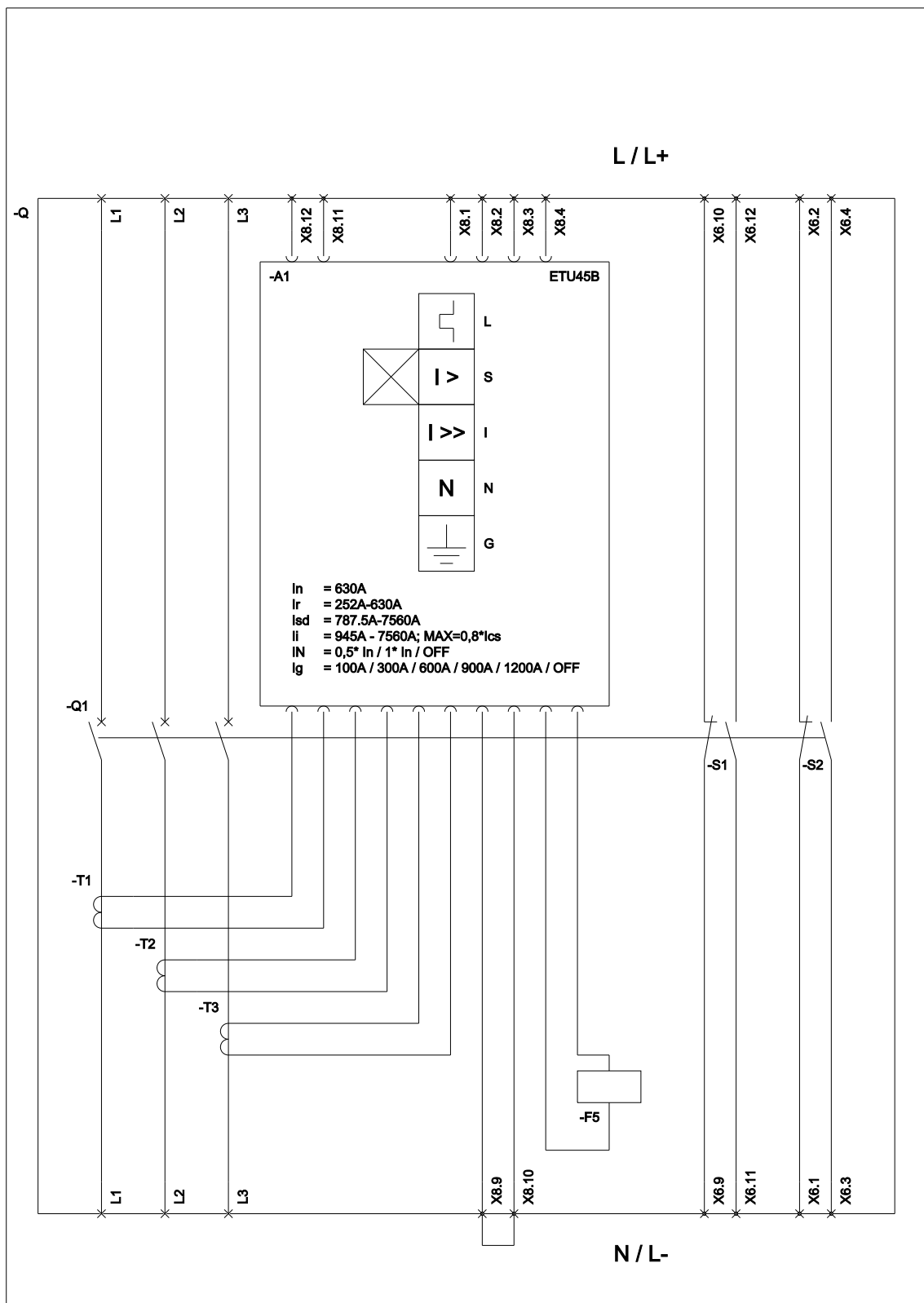
CAX-Online-Generator

<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 / Neutralleiterschutz);
 G (Ground Fault Protection / Erdschlussschutz); F5 (Magnet for trip unit / Auslösemagnet); S1 - S8 (Auxiliary switch / Hilfsschalter);

last modified:

4/5/2020 