SIEMENS

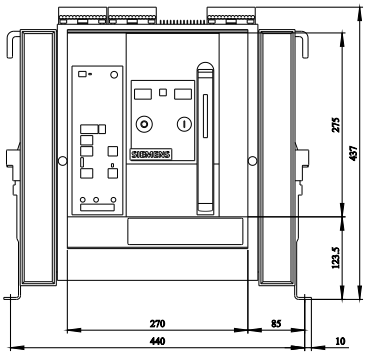
Data sheet 3WL1225-2DG32-4GS2-Z C22+K07+S33+T40

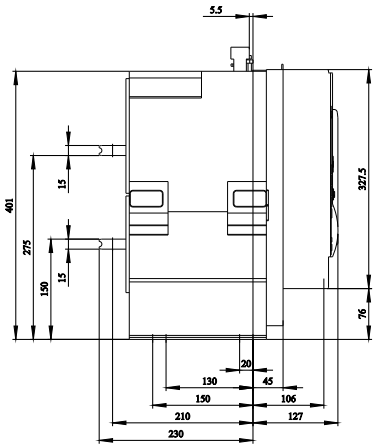
fixed-mounted circuit breaker 3-pole, size II, IEC In=2500A to 690V, AC50/60Hz Icu=66kA at 500V rear connection horizontal Overcurrent release ETU 27 LSING protection adjustable 0.4-1 in Ground fault/N protection integrated Motorized/manual operating mechanism with spring charging motor AC 50/60 Hz 208-240 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 "RC", F4 Undervoltage, Delay 0.2-3.2s 208-240 V AC, 220-250 V DC, 100% ED 2NO+2NC C22= Ready indicator K07= Tripped signaling contact, 1 CO not possible with option F02 S33= Castell/Fortress Tension lever T40= Door sealing frame

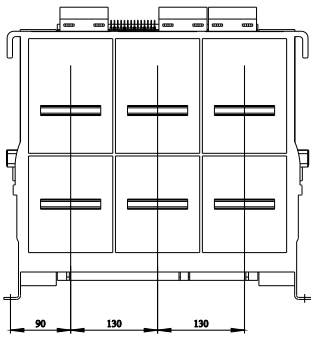
Model	
product brand name	SENTRON
product designation	ACB
design of the product	IEC 60947-2
design of the actuating element	Pushbutton
type of the driving mechanism	Manual/motorized operating mechanism with mechanical and electrical closing
type of the driving mechanism / motor drive	Yes
design of the overcurrent release	ETU27B
General technical data	
number of poles	3
size of the circuit-breaker	2
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 function of the overcurrent release	LSING
Dissipation	
power loss [W]	
● for rated value of the current / at AC / in hot operating state / per pole	90 W
● maximum	270 W
Current	
operational current	
● at 40 °C / rated value	2 500 A
● at 45 °C / rated value	2 500 A
● at 50 °C / rated value	2 500 A
● at 55 °C / rated value	2 500 A
● at 60 °C / rated value	2 500 A
● at 65 °C / rated value	2 500 A
● at 70 °C / rated value	2 280 A
continuous current / rated value / maximum	2 500 A
continuous current / rated value	2 500 A
adjustable current response value current	
● of the current-dependent overload release / full-scale value	2 500 A
● of instantaneous short-circuit trip unit / minimum	50 000 A
● of instantaneous short-circuit trip unit / maximum	50 000 A
Main circuit	
operating frequency	

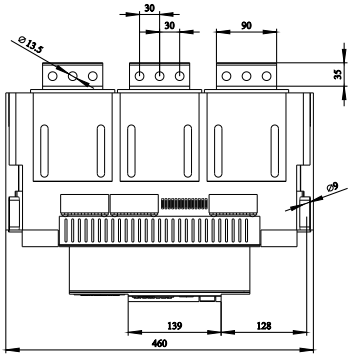
● 1 / rated value	50 Hz
● 2 / rated value	60 Hz
Auxiliary circuit	
number of NC contacts / for auxiliary contacts	2
number of NO contacts / for auxiliary contacts	2
Suitability	
suitability for use	Plant / motor protection
Adjustable parameters	
adjustable current response value current / of the current-dependent overload release / initial value	1 000 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	without 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	Main connection rear side horizontal
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	440.5 mm
width	460 mm
depth	337 mm
fastening method	fixed mounting
Environmental conditions	
ambient temperature / during operation	
● minimum	-20 °C
● maximum	70 °C
ambient temperature / during storage	
● minimum	-40 °C
● maximum	70 °C
Further information	

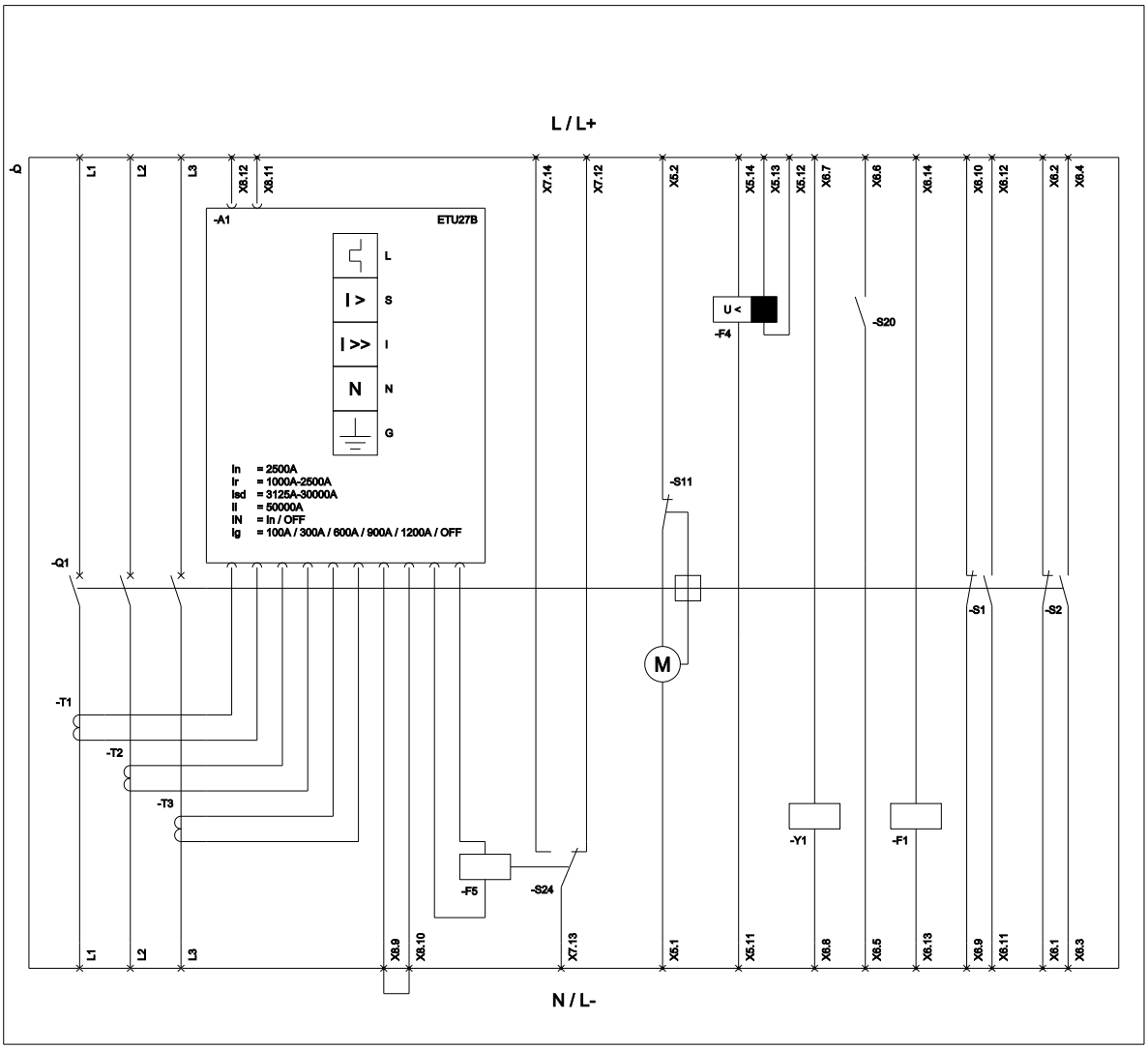
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1225-2DG32-4GS2-Z C22+K07+S33+T40
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3WL1225-2DG32-4GS2-Z C22+K07+S33+T40
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1225-2DG32-4GS2-Z C22+K07+S33+T40
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, kurzzeitverzögert); I (Instantaneous / Kurzschlussschutz, unverzögert); N (Neutral Protection / Neutralleiterschutz);
G (Ground Fault Protection / Erdschlussschutz); 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 (Maglatch for trip unit / Auslösemagnet); S1 - S8 (Auxiliary switch / Hilfsschalter);
S20 (Ready to close signalling switch / Einschaltbereitschaftsmeldeschalter); S24 (1st trip signalling switch K07 (Reset position) / Erster Ausgelöstmeldeschalter K07 (Reset Position)); Y1 (Closing coil / Einschaltmagnet);

last modified: 4/5/2020