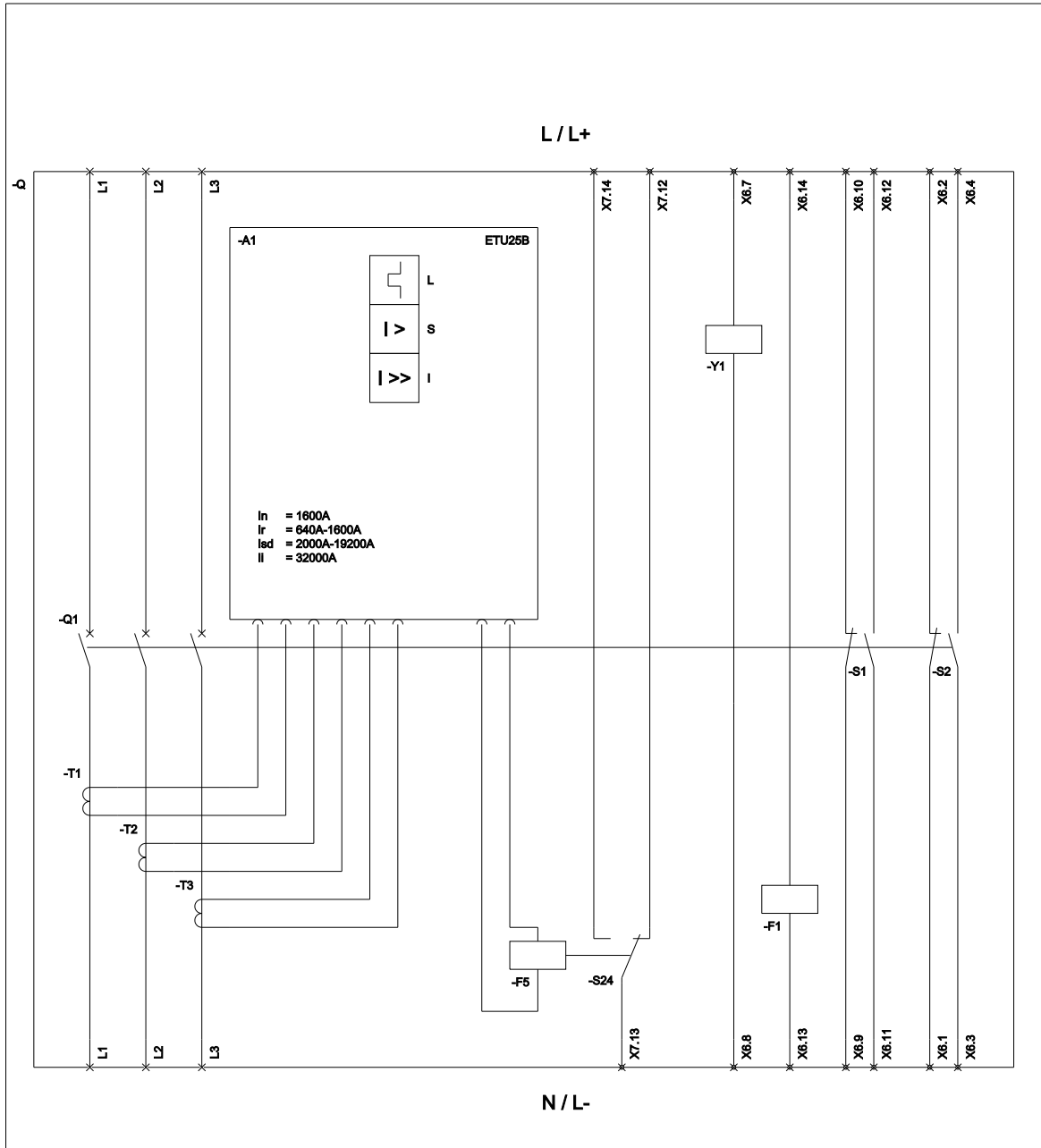


Fixed-mounted circuit breaker 3-pole, Size 1, IEC In=1600 A up to 690 V, 50/60 Hz AC Icu=85 kA at 500 V Rear horizontal connection Overcurrent release ETU 25 LSI protection adjustable 0.4-1 in With manual operating mechanism with storage with mechanical request With 1st auxiliary release Shunt release "F", F1 24 V DC; 100% ON period without 2nd auxiliary release 2NO+2NC K07= Tripped signaling contact, 1 CO not possible with option F02 M21= Switch-on solenoid 24 V DC 100% on-load factor S07= Locking device in OFF position w. 4 bracket locks (safe OFF/disconnector functionality) Disconnector condition IEC 60947-2

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 and electrical closing
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU25B
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	LSI
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	50 W
• maximum	150 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	32 000 A
• of instantaneous short-circuit trip unit / maximum	32 000 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	640 A
Product details	
product component	
• trip indicator	Yes
• voltage trigger	Yes
• undervoltage release	No
design of the auxiliary switch	2 NO + 2 NC
product extension / optional / motor drive	Yes
Product function	
product function	
• grounding protection	No
• phase failure detection	Yes
Display and operation	
display version	without display
Short circuit	
breaking capacity operating short-circuit current (Ics)	
• at 415 V / rated value	85 kA
• at 500 V / rated value	85 kA
• at 690 V / rated value	66 kA
breaking capacity maximum short-circuit current (Icu)	
• at 415 V / rated value	85 kA
• at 500 V / rated value	85 kA
• at 690 V / rated value	66 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	-40 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C
Further information	
Industry Mall (Online ordering system)	
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mfb=3WL1116-4CB62-1BA2-Z K07+M21+S07	
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)	
https://support.industry.siemens.com/cs/ww/en/ps/3WL1116-4CB62-1BA2-Z K07+M21+S07	
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)	
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3WL1116-4CB62-1BA2-Z K07+M21+S07	
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, kurzzeilverzögert); I (Instantaneous / Kurzschlusschutz, unverzögert);
 F1 (1st auxiliary release / Erster Hilfsauslöser); F5 (Maglatch for trip unit / Auslösemagnet); S1 - S8 (Auxiliary switch / Hilfschalter);
 S24 (1st trip signalling switch K07 (Reset position) / Erster Ausgelschmeldehalter K07 (Reset Position)); Y1 (Closing coil / Einschaltmagnet);

last modified:

11/8/2022

