SIEMENS

Data sheet

3WL1108-4CB66-5FM2-Z C22+K07+P01+R15+R21+S01

Draw-out circuit breaker with slide-in module frame 3-pole, Size 1, IEC In=800 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 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 "R", F3 Undervoltage, instant. 110-127 V AC, 110-125 V DC 2NO+2NC C22= Ready indicator K07= Tripped signaling contact, 1 CO not possible with option F02 P01= Retrofitted to Connection on front double hole R15= Position signaling switch, withdrawable part 3 changeover contacts R21= Shutter 2-part can be locked with padlock S01= CES locking device in OFF position (safe OFF/disconnector functionality) Disconnector condition in compliance with IEC 60947-2

product brand name SENTRON product designation ACB design of the product IEC 60947-2 design of the product SIEC 60947-2 lesign 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 ETU25B Ceneral technical data number of poles size of the circuit-breaker 1 utilization category B circuit-breaker / Design 3WL1 Voltage Rated insulation voltage Ui 1 1000 V insulation voltage Visated value 1 1000 V operating voltage 4 • at AC / at 50/00 Hz / rated value 690 V Protection class protection class IP / on the front Protection class 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 • maximum 195 W Mishin circuit operating voltage 50 Hz • 2 / rated value •	Model	
design of the product design of the actualing element plyes of the driving mechanism Nanualmotorized operating mechanism with mechanical and electrical closing type of the driving mechanism / motor drive ves design of the overcurrent release ETUZ5B Ceneral technical data number of poles size of the circuit-breaker 1 tuitization category Gircuit-breaker / Design Woltage Voltage Rated insulation voltage UI insulation voltage I rated value 1 1000 V insulation voltage I rated value 1 1000 V coperating voltage • at AC / at 50/60 Hz / rated value 690 V Protection class IP protection class IP / on the front protection function of the overcurrent release Dissipation power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum Main circuit operating frequency • 1 / rated value 2 / rated value 50 Hz Auxiliary circuit number of NC contacts / for auxiliary contacts 2 number of NC contacts / for auxiliary contacts 2 suitability product defauls product component	product brand name	SENTRON
design of the actuating element type of the driving mechanism / motor drive type of the driving mechanism / motor drive design of the overcurrent release ETUZ5B General technical data number of poles size of the circuit breaker 1 utilization category B size of the circuit breaker 1 1 000 V Insulation voltage UI Insulation voltage UI Insulation voltage UI Insulation voltage V ated value operating voltage at AC / at 50/60 Hz / rated value Protection class IP ipportection class IP ipportection class IP / on the front protection of the overcurrent release Dissipation power loss [V] for rated value of the current / at AC / in hot operating state / per pole analytic protection class IP ipportection cla	product designation	ACB
type of the driving mechanism / motor drive Yes design of the oriving mechanism / motor drive Yes design of the overcurrent release ETU25B General technical data number of poles 3 size of the diroulibreaker 1 utilization category B circuit-breaker / Design SWL1 Voltage Rated insulation voltage / rated value 1000 V insulation voltage / rated value 690 V Protection class IP / on the front 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 • 2 / rated value 50 Hz • 2 / rated value 50 Hz • 2 / rated value 60 Hz Auxiliary circuit number of NC contacts / for auxiliary contacts 2 number of NC contacts / for auxiliary contacts 2 Suitability suitability or use Adjustable parameters adjustable parameters adjustable parameters	design of the product	IEC 60947-2
type of the driving mechanism / motor drive Yes design of the overcurrent release ETU258 Cenneral tochnical data	design of the actuating element	Pushbutton
design of the overcurrent release ETU25B General technical data number of poles size of the circuit-breaker 1 utilization category B Circuit-breaker / Design Woltage Rated insulation voltage Ui insulation voltage / Tated value operating voltage • at AC / at 50/60 Hz / rated value opretion class IP rotection class IP protection class IP 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 • maximum Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 50 Hz Auxiliary circuit number of NC contacts / for auxiliary contacts 2 Suttability suitability for use Adjustable parameters	type of the driving mechanism	Manual/motorized operating mechanism with mechanical and electrical closing
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 6 at AC / at 50/60 Hz / rated value 690 V Protection class IP IP20 • protection class IP IP20 • protection class IP 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 • maximum 195 W Main circuit operating frequency • 1 / rated value 60 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 use Plant / motor protection Adjustable parameters adjustable current response value current / of the current- dependent overload release / initial value Product details product component	type of the driving mechanism / motor drive	Yes
number of poles size of the circuit-breaker 1 utilization category circuit-breaker / Design 3WL1 Voltage Rated insulation voltage Ui 1 000 V insulation voltage / rated value 1 0000 V operating voltage rated value 699 V Protection class IP 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 • maximum 195 W Main circuit operating frequency • 1 / rated value 50 Hz • 2 / rated value 60 Hz Auxillary circuit number of NC contacts / for auxillary contacts 2 number of NC contacts / for auxillary contacts 2 suitability suitability suitability suitability suitability or reduction suits value product details product component	design of the overcurrent release	ETU25B
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 IP • protection class IP / on the front IP20 • protection class IP / on the front IP20 • protection class IP / on the front IP20 • protection class IP / on the front IP30 power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 195 W Main circuit operating frequency • 1 / rated value 50 Hz • 2 / rated value 60 Hz Auxillary circuit 1 current / for auxiliary contacts 2 number of NC contacts / for auxiliary contacts 2 2 suitability suitability or use Plant / motor protection Adjustable parameters adjustable current response value current / of the current dependent overload release / initial value Product details product component	General technical data	
utilization category circuit-breaker / Design Voltage Rated insulation voltage Ui insulation voltage / rated value operating voltage • at AC / at 50/60 Hz / rated value • 690 V Protection class protection class IP • protection class IP / on the front • protection function of the overcurrent release LSI Dissipation power loss [W] • for trated value of the current / at AC / in hot operating state / per pole • maximum 195 W Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value 100 Hz Auxillary circuit number of NC contacts / for auxillary contacts 2 number of NC contacts / for auxillary contacts 2 Sultability suitability for use Adjustable parameters adjustable current response value current / of the current- dependent overload release / initial value Product details product component	number of poles	3
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 IP • protection class IP IP20 • protection class IP IP20 • protection function of the overcurrent release LSI Dissipation power loss [M] • for rated value of the current / at AC / in hot operating state / per pole • maximum 195 W Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value Auxiliary circuit number of NC contacts / for auxiliary contacts 2 number of NC contacts / for auxiliary contacts 2 Sultability suitability for use Plant / motor protection Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	size of the circuit-breaker	1
Rated insulation voltage Ui 1000 V insulation voltage I 1000 V operating voltage	utilization category	В
Rated insulation voltage Ui 1000 V insulation voltage / rated value 1000 V operating voltage	circuit-breaker / Design	3WL1
insulation voltage / rated value 1000 V operating voltage 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] 65 W • for rated value of the current / at AC / in hot operating state / per pole • maximum 195 W Main circuit operating frequency • 1 / rated value 60 Hz • 2 / rated value 60 Hz Auxiliary circuit number of NC contacts / for auxiliary contacts 2 number of NC 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 Product details product component	Voltage	
operating voltage • at AC / at 50/60 Hz / rated value Protection class protection class IP • protection class IP 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 • maximum 195 W Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 80 Hz Auxiliary circuit number of NC contacts / for auxiliary contacts 2 suitability suitability suitability suitability for use Plant / motor protection Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product component	Rated insulation voltage Ui	1 000 V
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] of rated value of the current / at AC / in hot operating state / per pole maximum 195 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 suitability for use Plant / motor protection Adjustable current response value current / of the current-dependent overload release / initial value Product details product component	insulation voltage / rated value	1 000 V
Protection class IP • protection class IP / on the front • protection function of the overcurrent release Dissipation power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 suitability suitability for use Adjustable current response value current / of the current-dependent overload release / initial value Product details product component	operating voltage	
protection class IP IP20 • protection class IP / on the front IP20 • protection function of the overcurrent release LSI Dissipation For rated value of the current / at AC / in hot operating 65 W state / per pole For rated value of the current / at AC / in hot operating 65 W For rated value For pole For po	at AC / at 50/60 Hz / rated value	690 V
protection class IP / on the front	Protection class	
protection function of the overcurrent release Dissipation power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 195 W Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • 2 / rated value Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 Suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	protection class IP	IP20
protection function of the overcurrent release Dissipation power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value fon Hz Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 Suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component		
Dissipation power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 195 W Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 Suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	 protection class IP / on the front 	IP20
power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 195 W Main circuit operating frequency • 1 / rated value • 2 / rated value • 2 / rated value Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 number of NO contacts / for auxiliary contacts 2 Suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	 protection function of the overcurrent release 	LSI
for rated value of the current / at AC / in hot operating state / per pole maximum 195 W Main circuit operating frequency 1 / rated value 50 Hz 60 Hz Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 number of NO contacts / for auxiliary contacts 2 suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	Dissipation	
state / per pole	power loss [W]	
Main circuit operating frequency • 1 / rated value • 2 / rated value 60 Hz Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO 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 Product details product component		65 W
operating frequency • 1 / rated value • 2 / rated value 60 Hz Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 number of NO contacts / for auxiliary contacts 2 Suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	• maximum	195 W
• 1 / rated value • 2 / rated value • 2 / rated value Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO 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 Product details product component	Main circuit	
● 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 Product details product component	operating frequency	
Auxiliary circuit number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 Suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	• 1 / rated value	50 Hz
number of NC contacts / for auxiliary contacts number of NO contacts / for auxiliary contacts 2 Suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	• 2 / rated value	60 Hz
number of NO contacts / for auxiliary contacts Suitability suitability for use Plant / motor protection Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	Auxiliary circuit	
Suitability suitability for use Plant / motor protection Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	number of NC contacts / for auxiliary contacts	2
suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value Product details product component	number of NO contacts / for auxiliary contacts	2
Adjustable parameters adjustable current response value current / of the current- dependent overload release / initial value Product details product component	Suitability	
adjustable current response value current / of the current- dependent overload release / initial value Product details product component	suitability for use	Plant / motor protection
dependent overload release / initial value Product details product component	Adjustable parameters	
product component		320 A
	Product details	
• trip indicator Yes	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 	No
 phase failure detection 	Yes
Display and operation	
display version	without display
Short circuit	
operating short-circuit current breaking capacity (lcs)	
at 415 V / rated value	85 kA
at 500 V / rated value	85 kA
• at 690 V / rated value	66 kA
maximum short-circuit current breaking capacity (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 top front/bottom double hole
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	460 mm
width	320 mm
depth	456 mm
fastening method	drawer unit
Environmental conditions	
ambient temperature / during operation	
• minimum	-40 °C
maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	80 °C
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=3WL1108-4CB66-5FM2-Z C22+K07+P01+R15+R21+S01

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

https://support.industry.siemens.com/cs/ww/en/ps/3WL1108-4CB66-5F

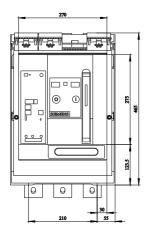
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1108-4CB66-5FM2-Z C22+K07+P01+R15+R21+S01

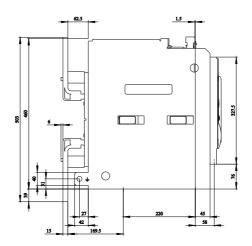
CAx-Online-Generator

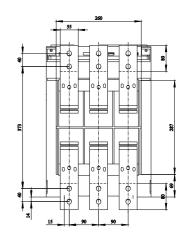
http://www.siemens.com/cax

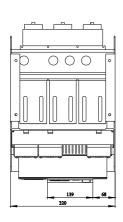
Tender specifications

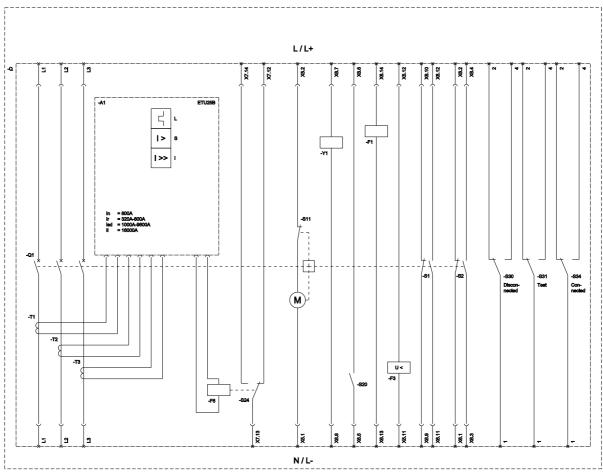
http://www.siemens.com/specifications











last modified: 11/29/2021

