SIEMENS

Data sheet 3WL1212-4CB42-1AA2

fixed-mounted circuit breaker 4-pole, size II, IEC In=1250A to 690V, AC50/60Hz Icu=100kA at 500V rear connection horizontal

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	ETU25B
General technical data	
number of poles	4
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 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	26.7 W
● maximum	80 W
Current	
continuous current / rated value / maximum	1 250 A
continuous current / rated value	1 250 A
adjustable current response value current	
● of the current-dependent overload release / full-scale value	1 250 A
● of instantaneous short-circuit trip unit / initial value	25 000 A
● of instantaneous short-circuit trip unit / full-scale value	25 000 A
Main circuit	
operating frequency	
● 1 / rated value	50 Hz
● 2 / rated value	60 Hz
operational current	
● at 40 °C / rated value	1 250 A
● at 50 °C / rated value	1 250 A
● at 55 °C / rated value	1 250 A
● at 60 °C / rated value	1 250 A
● at 65 °C / rated value	1 250 A
● at 70 °C / rated value	1 210 A
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	500 A
Product details	
product component	
• trip indicator	Yes
• voltage trigger	No
• 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	100 kA
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 kA
breaking capacity maximum short-circuit current (Icu)	
• at 415 V / rated value	100 kA
• at 500 V / rated value	100 kA
• at 690 V / rated value	85 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	590 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
Certificates	
reference code	
• acc. to DIN EN 61346-2	Q
• acc. to IEC 81346-2	Q
Further information	

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1212-4CB42-1AA2
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3WL1212-4CB42-1AA2
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1212-4CB42-1AA2
Tender specifications
http://www.siemens.com/specifications

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