Data sheet

withdrawable circuit breaker with guide frame 3-pole, size II, IEC In=2000A 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 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	ETU27B
General technical data	
number of poles	3
size of the circuit-breaker	2
utilization category	В
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	106.7 W
operating state / per pole	
• maximum	320 W
Current	
Current continuous current / rated value / maximum	2 000 A
	2 000 A 2 000 A
continuous current / rated value / maximum	
continuous current / rated value / maximum continuous current / rated value	
continuous current / rated value / maximum continuous current / rated value adjustable current response value current	2 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial	2 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value	2 000 A 2 000 A 40 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale	2 000 A 2 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value	2 000 A 2 000 A 40 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit	2 000 A 2 000 A 40 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency	2 000 A 2 000 A 40 000 A 40 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value	2 000 A 2 000 A 40 000 A 40 000 A 50 Hz
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value • 2 / rated value	2 000 A 2 000 A 40 000 A 40 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value • 2 / rated value operational current	2 000 A 2 000 A 40 000 A 40 000 A 50 Hz 60 Hz
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value • 2 / rated value operational current • at 40 °C / rated value	2 000 A 2 000 A 40 000 A 40 000 A 50 Hz 60 Hz 2 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value • 2 / rated value operational current • at 40 °C / rated value • at 50 °C / rated value	2 000 A 2 000 A 40 000 A 40 000 A 50 Hz 60 Hz 2 000 A 2 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value • 2 / rated value operational current • at 40 °C / rated value	2 000 A 2 000 A 40 000 A 40 000 A 50 Hz 60 Hz 2 000 A 2 000 A 2 000 A 2 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value • 2 / rated value operational current • at 40 °C / rated value • at 50 °C / rated value	2 000 A 2 000 A 40 000 A 40 000 A 50 Hz 60 Hz 2 000 A 2 000 A
continuous current / rated value / maximum continuous current / rated value adjustable current response value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / initial value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value • 2 / rated value operational current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value	2 000 A 2 000 A 40 000 A 40 000 A 50 Hz 60 Hz 2 000 A 2 000 A 2 000 A 2 000 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	800 A
current-dependent overload release / initial value	
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	Yes
phase failure detection	Yes
priase failure detection	100
Display and operation	
Display and operation display version	without display
	without display
display version	without display
display version Short circuit	without display 66 kA
Short circuit breaking capacity operating short-circuit current (Ics)	
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value	66 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value	66 kA 66 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value	66 kA 66 kA 50 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit	66 kA 66 kA 50 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value	66 kA 66 kA 50 kA 66 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit	66 kA 66 kA 50 kA 66 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value	66 kA 66 kA 50 kA 66 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit	66 kA 66 kA 50 kA 66 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 690 V / rated value Connections arrangement of electrical connectors / for main	66 kA 66 kA 50 kA 66 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 690 V / rated value Connections arrangement of electrical connectors / for main current circuit	66 kA 66 kA 50 kA 66 kA 66 kA 50 kA Main connection rear side horizontal
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 690 V / rated value Connections arrangement of electrical connectors / for main	66 kA 66 kA 50 kA 66 kA 66 kA
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 690 V / rated value Connections arrangement of electrical connectors / for main current circuit	66 kA 66 kA 50 kA 66 kA 66 kA 50 kA Main connection rear side horizontal
Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 690 V / rated value Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit	66 kA 66 kA 50 kA 66 kA 66 kA 50 kA Main connection rear side horizontal
display version Short circuit breaking capacity operating short-circuit current (Ics) • at 415 V / rated value • at 500 V / rated value • at 690 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value • breaking capacity maximum short-circuit current (Icu) / at 690 V / rated value Connections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Mechanical Design	66 kA 66 kA 50 kA 66 kA 66 kA 50 kA Main connection rear side horizontal busbar connection

fastening method drawer unit

Environmental conditions

ambient temperature / during operation

• minimum

• maximum

70 °C

ambient temperature / during storage

• minimum

-40 °C

70 °C

Q

Certificates

reference code

• maximum

• acc. to DIN EN 61346-2

• acc. to IEC 81346-2 Q

General	Declaration of	Test Certificates	Shipping Approval
Product Ap-	Conformity		
proval			





Special Test Certificate

Miscellaneous





Shipping Approval

other





CCS / China Classification Society Environmental Confirmations

Manufacturer Declaration Confirmation

other

Miscellaneous

Further information

Industry Mall (Online ordering system)

mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-2DG36-1AA2

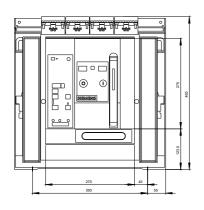
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) support.industry.siemens.com/cs/ww/en/ps/3WL1220-2DG36-1AA2

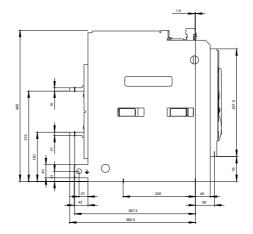
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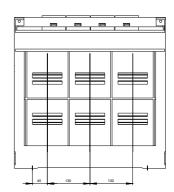
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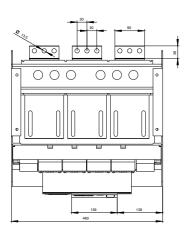
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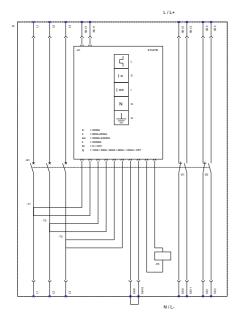
Tender specifications siemens.com/specifications











L (Long Time Delay / Überlastschutz); S (Short Time Delay / Kurzschlussschutz, kurzzeitverzögert);
I (Instantaneous / Kurzschlussschutz, unverzögert); N (Neutral Protection / Neutralleitenschutz);