

Draw-out circuit breaker with slide-in module frame 3-pole, Size 2, IEC In=2000 A to 690 V, 50/60 Hz AC Icu=66 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 208-240 V or 220-250 V DC Activation AC 50/60 Hz 230 V, 220 V DC 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/motorized operating mechanism with mechanical and electrical closing

type of the driving mechanism / motor drive	Yes
design of the overcurrent release	ETU25B
General technical data	
number of poles	3
size of the circuit-breaker	2
utilization category	B
circuit-breaker / Design	3WL1
Voltage	
Rated insulation voltage U_i	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	106.7 W
• maximum	320 W
Current	
continuous current / rated value / maximum	2 000 A
continuous current / rated value	2 000 A
adjustable current response value current	
• of the current-dependent overload release / full-scale value	2 000 A
• of instantaneous short-circuit trip unit / initial value	40 000 A
• of instantaneous short-circuit trip unit / full-scale value	40 000 A
Main circuit	
operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
operational current	
• at 40 °C / rated value	2 000 A
• at 50 °C / rated value	2 000 A
• at 55 °C / rated value	2 000 A
• at 60 °C / rated value	2 000 A
• at 65 °C / rated value	2 000 A

• at 70 °C / rated value

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 current-dependent overload release / initial value

800 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

No

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

66 kA

• breaking capacity operating short-circuit current (Ics) / at 500 V / rated value

66 kA

• breaking capacity operating short-circuit current (Ics) / at 690 V / rated value

50 kA

• breaking capacity maximum short-circuit current (Icu) / at 415 V / rated value

66 kA

• breaking capacity maximum short-circuit current (Icu) / at 500 V / rated value

66 kA

• breaking capacity maximum short-circuit current (Icu) / 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	465.5 mm
width	460 mm
depth	456 mm
fastening method	drawer unit

Environmental conditions

ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum • maximum 	<p>-40 °C</p> <p>70 °C</p>
ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum • maximum 	<p>-40 °C</p> <p>80 °C</p>

Certificates

reference code	
<ul style="list-style-type: none"> • acc. to DIN EN 61346-2 • acc. to IEC 81346-2 	<p>Q</p> <p>Q</p>

General Product Approval	Declaration of Conformity	Test Certificates	Shipping Approval
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[Miscellaneous](#)

[Special Test Certificate](#)



Shipping Approval	other
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[CCS / China Classification Society](#)

[Environmental Conformations](#)

[Manufacturer Declaration](#)

[Confirmation](#)

other

[Miscellaneous](#)

Further information

Industry Mall (Online ordering system)

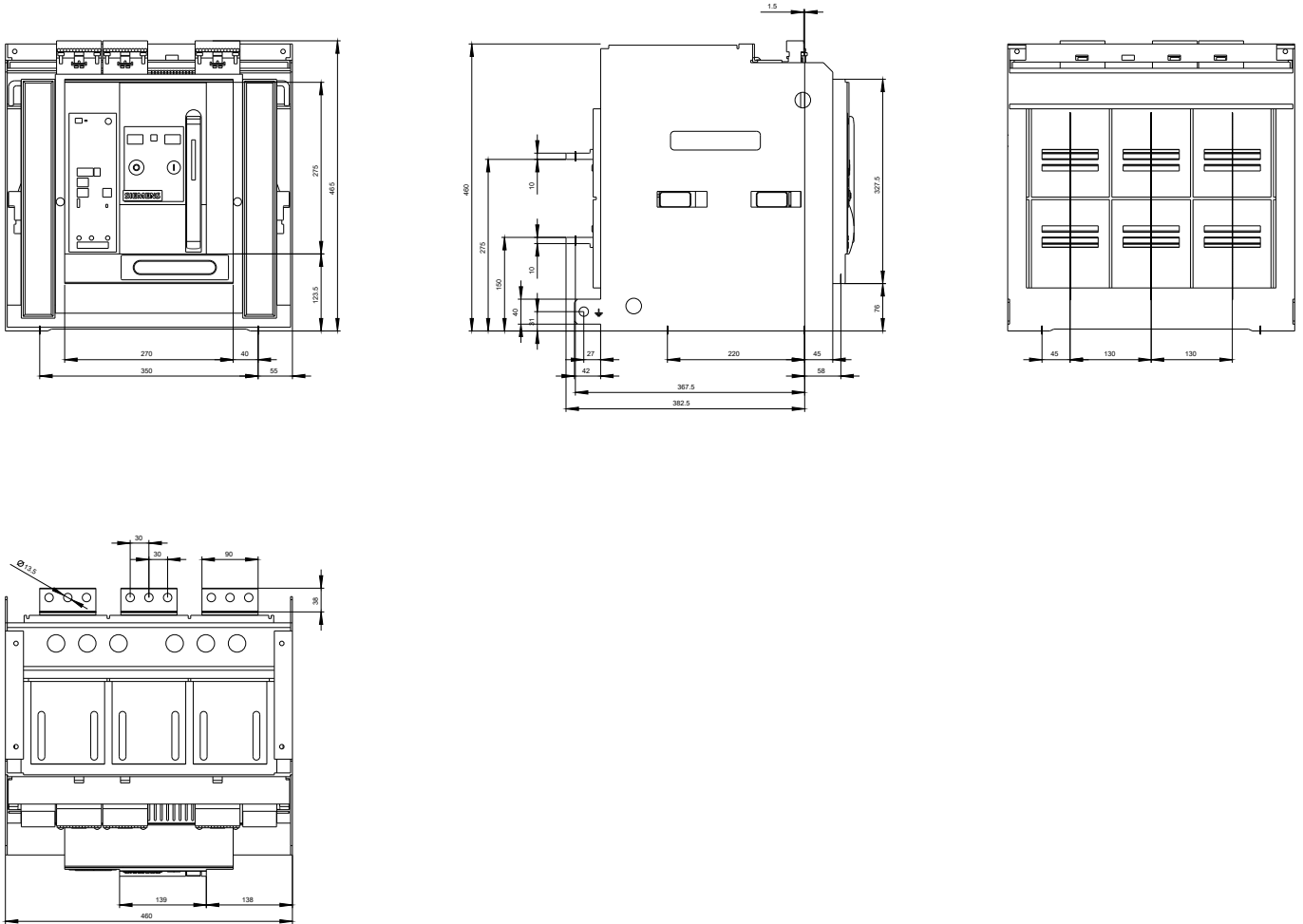
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1220-2CB66-4AA2>

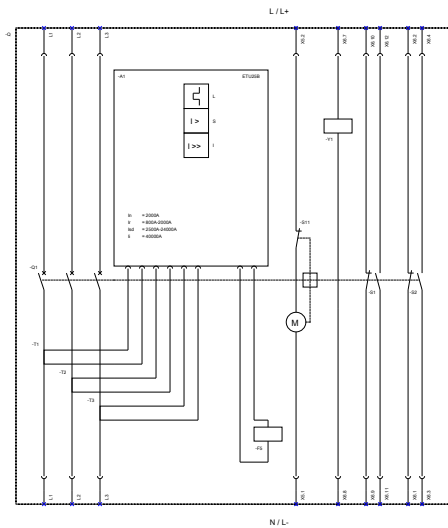
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3WL1220-2CB66-4AA2>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1220-2CB66-4AA2





S (Long Time Delay / Überstromschutz), S (Short Time Delay / Kutschusschutz, kurzzeitverzögert), I (Differential / Kutschusschutz, unverzögert),
 S11 (Internal motor shutdown switch, if being reconnected / Interner Motorschaltkontakt, wenn Feder gespannt), FS (Release for trip unit / Auslöseorgan),
 S1 (Shunt switch / Hilfskontakt), Y1 (Starting coil / Einschaltorgan).

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11/26/2020