SIEMENS

Data sheet

withdrawable circuit breaker with guide frame 4-pole, size I, IEC In=1250A to 690V, AC50/60Hz Icu=85kA at 500V rear connection horizontal

product brand name SENTRON product designation ACB design of the product design of the product design of the actualing 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 Ceneral technical data number of potes 4 size of the circuit-breaker 1 tultization category B circuit-breaker / Design 3WL1 Voltage Rated insulation voltage Ui 1000 V insulation voltage I rated value 1000 V operating voltage e at AC / at 50/60 Hz / rated value 690 V Protection class IP protection class IP on the front IP20 protection function of the overcurrent release LSING Dissipation power loss [W] of or rated value of the current / at AC / in hot operating state / per pote e maximum 205 W Current Continuous current / rated value / maximum 205 W Current continuous current / rated value / maximum 205 W Current continuous current / rated value / maximum 205 W Current continuous current / rated value / maximum 205 W Current continuous current / rated value / maximum 250 A continuous curr		to 690V, AC50/60Hz Icu=85kA at 500V rear connection horizontal
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type of the driving mechanism / motor drive		
Type of the driving mechanism / motor drive design of the overcurrent release ETU27B	design of the actuating element	Pushbutton
design of the overcurrent release General technical data number of poles size of the circuit-breaker	type of the driving mechanism	Manual operating mechanism with mechanical closing
Ceneral technical data	type of the driving mechanism / motor drive	No
number of poles 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 / on the front IP20 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 IP20 protection class IP / on the front IP20 continuous cursent / rated value of the current / at AC / in hot operating state / per pole • maximum 205 W Current continuous current / rated value / maximum 1 250 A continuous current / rated value current • of the current-dependent overload release / full-scale value • of instantaneous short-circuit trip unit / intital value • of instantaneous short-circuit trip unit / intital value • 2 / rated value 1 / rated value 5 / Urated value 1 / rated value	design of the overcurrent release	ETU27B
Size of the circuit-breaker 1	General technical data	
utilization category circuit-breaker / Design 7 Voltage Rated insulation voltage Ui insulation voltage / rated value 1 000 V operating voltage • at AC / at 50/60 Hz / rated value 690 V Protection class 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 Current continuous current / rated value / maximum 1 250 A continuous current / rated value • of instantaneous short-circuit trip unit / full-scale value Main circuit operating frequency • 1 / rated value • 2 / 2 / rated value operating frequency • 1 / rated value • 2 / 2 / rated value operating frequency • 1 / rated value • 2 / rated value • 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3 / 3	number of poles	4
Circuit-breaker / Design 3WL1	size of the circuit-breaker	1
Rated insulation voltage Ui 1 000 V insulation voltage I/ rated value 1 000 V operating voltage at AC / at 50/60 Hz / rated value 690 V Protection class IP protection class IP protection class IP / on the front IP20 protection function of the overcurrent release LSING Dissipation For rated value of the current / at AC / in hot operating state / per pole	utilization category	В
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power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 205 W Current continuous current / rated value / maximum continuous current / rated value • of the 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 • of instantaneous short-circuit trip unit / full-scale value • of operating frequency • 1 / rated value • 2 / rated value • 2 / rated value • at 40 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 60 °C / rated value		
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of instantaneous short-circuit trip unit / full-scale value Main circuit	of the current-dependent overload release / full-	1 250 A
of instantaneous short-circuit trip unit / full-scale value Main circuit	 of instantaneous short-circuit trip unit / initial value 	25 000 A
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	operating frequency	
operational current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 67 °C / rated value • at 67 °C / rated value • at 70 °C / rated value • at 70 °C / rated value • at 70 °C / rated value	• 1 / rated value	50 Hz
 at 40 °C / rated value at 50 °C / rated value at 55 °C / rated value at 60 °C / rated value at 65 °C / rated value at 65 °C / rated value at 70 °C / rated value 1 250 A 1 250 A 250 A 1 250 A 	• 2 / rated value	60 Hz
 at 50 °C / rated value at 55 °C / rated value at 60 °C / rated value at 65 °C / rated value at 65 °C / rated value at 70 °C / rated value 1 250 A 1 250 A 250 A 1 250 A 1 250 A 1 250 A 	operational current	
 at 55 °C / rated value at 60 °C / rated value at 65 °C / rated value at 70 °C / rated value 1 250 A 250 A 1 250 A 250 A 	• at 40 °C / rated value	1 250 A
 at 60 °C / rated value at 65 °C / rated value at 70 °C / rated value 1 250 A 250 A 210 A 	 at 50 °C / rated value 	1 250 A
 at 65 °C / rated value at 70 °C / rated value 1 250 A 210 A 	• at 55 °C / rated value	1 250 A
• at 70 °C / rated value 1 210 A	• at 60 °C / rated value	1 250 A
	• at 65 °C / rated value	1 250 A
Auxiliary circuit	• 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 	Yes
 phase failure detection 	Yes
Display and operation	
display version	without display
Short circuit	
breaking capacity operating short-circuit current (lcs)	
• 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	460 mm
width	410 mm
depth	456 mm
fastening method	drawer unit
Environmental conditions	
ambient temperature / during operation	
• minimum	-20 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
minimummaximum	-40 °C 70 °C
• maximum	
• maximum Certificates	
maximum Certificates reference code	70 °C
maximum Certificates reference code acc. to DIN EN 61346-2	70 °C Q

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3WL1112-4DG46-1AA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3WL1112-4DG46-1AA2

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3WL1112-4DG46-1AA2

Tender specifications

http://www.siemens.com/specifications





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