SIEMENS

Data sheet

3VA2712-1AC13-0AA0

fixed-mounted molded case circuit breaker frame 1600; with RTC and 4AUX trip alarm switch S24; Icu "M" Icu=55kA @ 415V, 4-pole, left ETU350, LSI, In=1250A rotary coding switch Ir=500...1250A Isd=1...10xIn, Ii=1.5...15xIn N conductor protec. adjustable OFF, 50%, 100%, 200% nut keeper kit No communication connection, no measurement function Manual operating mechanism of the spring energy store With mechanical calling without 2nd auxiliary release without 1st auxiliary release

product brand name product designation design of the product design of the product design of the product pye of the driving mechanism without motor drive type of the driving mechanism / motor drive design of the overcurrent release Ceneral technical data number of poles stze of the circuit-breaker mechanical service life (switching cycles) / typical circuit-breaker / Design Voltage insulation voltage / rated value operating voltage / rated value of the current / at AC / in hot operating state / per pole Current continuous current / rated value or of the voltage is a factor of the voltage of the current of the voltage of the voltage of the value or of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / minimum at AC / rat 415 V / limited to 0.5 s / rated value at 40° C / rated value at 40° C / rated value at 60° C / rated value 1 250 A 20 kA 20 kA 20 kA 20 kA 21 250 A 20 kA 21 250 A 21 250 A 22 kA 23 kA 24 40° C / rated value 1 250 A 25 kA 26 kA 27 c / rated value 1 250 A 28 kA 29 kA 20 kA 20 kA 20 kA 21 250 A 21 250 A 21 250 A 22 kA 23 kA 24 40° C / rated value 1 250 A 25 kA 26 kA 27 c / rated value 1 250 A 28 kB 29 kA 20 kA 20 kA 20 kA 21 250 A 21 250 A 22 kA 23 kA 24 25 C / rated value 26 kA 27 c / rated value 28 kB 29 kA 29 kA 20 kA 20 kA 20 kA 20 kA 20 kA 21 250 A 21 250 A 22 kA 23 kB 24 c / C / rated value 25 kB 26 kB 27 c / rated value 28 kB 29 k	Model	
design of the product design of the actualing element type of the driving mechanism type of the driving mechanism / motor drive type of the driving mechanism / motor drive design of the overcurrent release ETU350 Concrat technical data number of poles size of the circuit-breaker mechanical service life (switching cycles) / typical circuit-breaker / Design Voltage Voltage insulation voltage / rated value operating voltage / at AC / at 50/60 Hz / rated value protection class IP / on the front protection class IP / on the front protection class IP / on the front hot operating state / per pole Current continuous current / rated value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / minimum short-time withstand current (low) elimited to 1 s / rated value e at AC / at 415 V limited to 0.5 s / rated value 20 kA Main circuit operational current eat AC / at 415 V limited to 0.5 s / rated value eat 55 °C / rated value 1 1250 A Auxillary circuit number of CO contacts / for auxillary contacts Auxillary circuit number of CO contacts / for auxillary contacts 4 Sufficiency Suf	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 ETU350 General technical data number of poles size of the circuit-breaker mechanical service life (switching cycles) / typical circuit-breaker / Design Voltage insulation voltage / rated value operating voltage / at AC / at 50/60 Hz / rated value protection class IP protection class IP / on the front protection function of the overcurrent release power loss [W] / for rated value of the current / at AC / in hot operating voltage / at AC / at 50/60 Hz / rated value adjustable current response value current • of the current-dependent overload release / full- scale value • of instantaneous short-circuit trip unit / minimum • of instantaneous short-circuit trip unit / maximum short-time withstand current (low) • limited to 1 s / rated value • at AC / at 415 V / limited to 0.5 s / rated value • at 60 °C / ra	product designation	Molded case circuit breaker
type of the driving mechanism type of the driving mechanism / motor drive type of the driving mechanism / motor drive design of the overcurrent release ETU350 General technical data number of poles size of the circuit-breaker 1600 A mechanical service life (switching cycles) / typical 1000 circuit-breaker / Design 3VA2 Voltage Insulation voltage / rated value 1000 V operating voltage / rated value 1000 V operating voltage / rated value 1920 protection class IP on the front IP20 protection function of the overcurrent release LSI power loss IW] / for rated value of the current / at AC / in hot operating state / per pole Current 20	design of the product	MCCB
type of the driving mechanism / motor drive design of the overcurrent release ETU350 Concrat Lechnical data	design of the actuating element	spring actuator
design of the overcurrent release General technical data number of poles size of the circuit-breaker mechanical service life (switching cycles) / typical circuit-breaker / Design Voltage insulation voltage / rated value operating voltage / at AC / at 50/60 Hz / rated value operating voltage / at AC / at 50/60 Hz / rated value operating voltage / at AC / at 50/60 Hz / rated value operating voltage / at AC / at 50/60 Hz / rated value operating voltage / at AC / at 50/60 Hz / rated value operating voltage / at AC / at 50/60 Hz / rated value operating voltage / at AC / at 50/60 Hz / rated value operating voltage / at AC / at 50/60 Hz / rated value protection function of the overcurrent release LSI protection function of the overcurrent release LSI opewer loss // W/ for rated value of the current / at AC / in hot operating state / per pole Current continuous current / rated value	type of the driving mechanism	without motor drive
Senoral technical data number of poles 4	type of the driving mechanism / motor drive	No
number of poles size of the circuit-breaker mechanical service life (switching cycles) / typical circuit-breaker / Design Voltage insulation voltage / rated value operating voltage / rated value protection class IP protection class IP / on the front protection function of the overcurrent release power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current continuous current / rated value of instantaneous short-circuit trip unit / maximum of instantaneous short-circuit trip unit / maximum short-time withstand current (icw) ilmited to 1 s / rated value	design of the overcurrent release	ETU350
size of the circuit-breaker mechanical service life (switching cycles) / typical insulation voltage / rated value operating stale / per pole IP20 protection class IP / on the front protection function of the overcurrent release LSI power loss [W] / for rated value of the current / at AC / in hot operating stale / per pole Current continuous current / rated value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum short-time withstand current (lcw) oi limited to 1 s / rated value of at AC / at 415 V / limited to 0.5 s / rated value of at 40° C / rated value of C / rated value of correctional current operational current operational current of C / rated value	General technical data	
mechanical service life (switching cycles) / typical circuit-breaker / Design Voltage insulation voltage / rated value	number of poles	4
circuit-breaker / Design Voltage insulation voltage / rated value	size of the circuit-breaker	1600 A
insulation voltage / rated value	mechanical service life (switching cycles) / typical	1 000
insulation voltage / rated value	circuit-breaker / Design	3VA2
operating voltage / at AC / at 50/60 Hz / rated value 690 V protection class IP IP20 IP20 protection class IP on the front IP20 protection function of the overcurrent release LSI power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 47 W Continuous current / rated value adjustable current response value current of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit 1250 A of instantaneous short-circuit 1250 A of instantaneous short-circuit 122 A of instantaneous short-circuit 123 A of instantaneous short-circuit 125 A of instantaneous short-circuit 1	Voltage	
protection class IP / on the front IP20 protection class IP / on the front IP20 protection function of the overcurrent release LSI power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current continuous current / rated value 1 250 A adjustable current response value current of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum 1 875 A of instantaneous short-circuit trip unit / maximum 18 750 A short-time withstand current (lcw) limited to 1 s / rated value 20 kA at AC / at 415 V / limited to 0.5 s / rated value 20 kA Main circuit operational current at 40 °C / rated value 1 250 A at 50 °C / rated value 1 250 A at 60 °C / rated value 1 240 A at 60 °C / rated value 1 182 A at 60 °C / rated value 1 182 A at 60 °C / rated value 1 192 A at 60 °C / rated value 1 192 A at 70 °C / rated value 1 192 A at 70 °C / rated value 1 192 A at 70 °C / rated value 1 192 A at 70 °C / rated value 1 192 A at 70 °C / rated value 1 192 A at 70 °C / rated value 1 192 A at 70 °C / rated value 1 192 A at 70 °C / rated value 1 192 A suitability suitability suitability for use system protection	insulation voltage / rated value	1 000 V
protection class IP / on the front protection function of the overcurrent release power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current continuous current / rated value	operating voltage / at AC / at 50/60 Hz / rated value	690 V
protection function of the overcurrent release power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current continuous current / rated value adjustable current response value current of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum 18 750 A short-time withstand current (lcw) ilimited to 1 s / rated value at AC / at 415 V / limited to 0.5 s / rated value e at 40 °C / rated value at 50 °C / rated value 1 250 A at 60 °C / rated value 1 250 A at 60 °C / rated value 1 250 A at 60 °C / rated value 1 250 A at 60 °C / rated value 1 122 A at 60 °C / rated value 1 122 A at 70 °C / rated value 1 122 A Auxiliary circuit number of CO contacts / for auxiliary contacts Suitability	protection class IP	IP20
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current continuous current / rated value	protection class IP / on the front	IP20
Current continuous current / rated value adjustable current response value current • of the current-dependent overload release / full- scale value • of instantaneous short-circuit trip unit / minimum • of instantaneous short-circuit trip unit / maximum 1875 A • of instantaneous short-circuit trip unit / maximum short-time withstand current (lcw) • limited to 1 s / rated value • at AC / at 415 V / limited to 0.5 s / rated value 20 kA Main circuit operational current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 65 °C / rated value • at 65 °C / rated value • at 65 °C / rated value • at 70 °C / rated value Note The current of the cu	<u> </u>	LSI
continuous current / rated value adjustable current response value current of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum short-time withstand current (lcw) ilimited to 1 s / rated value at AC / at 415 V / limited to 0.5 s / rated value 20 kA Main circuit operational current at 40 °C / rated value at 60 °C / rated value at 65 °C / rated value at 70 °C / rated value at 70 °C / rated value at 70 °C / rated value suitability suitability suitability suitability		47 W
adjustable current response value current of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 18 750 A short-time withstand current (lcw) limited to 1 s / rated value ot AC / at 415 V / limited to 0.5 s / rated value 20 kA Main circuit operational current ot at 40 °C / rated value at 50 °C / rated value ot 250 A at 55 °C / rated value 1 250 A at 65 °C / rated value 1 240 A at 65 °C / rated value 1 122 A at 70 °C / rated value 1 122 A at 70 °C / rated value 1 1057 A Auxiliary circuit number of CO contacts / for auxiliary contacts 4 Suitability suitability suse system protection	Current	
of the current-dependent overload release / full-scale value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum 1875 A of instantaneous short-circuit trip unit / maximum 18 750 A short-time withstand current (lcw) olimited to 1 s / rated value ot AC / at 415 V / limited to 0.5 s / rated value operational current operational current ot at 40 °C / rated value ot at 50 °C / rated value ot at 55 °C / rated value ot at 60 °C / rated value ot at 70 °C / rated value ot 70 °C / rated value ot 70 °C / rated value standard ot 122 A ot 70 °C / rated value standard ot 70 °C /	continuous current / rated value	1 250 A
scale value of instantaneous short-circuit trip unit / minimum of instantaneous short-circuit trip unit / maximum 1875 A 18 750 A short-time withstand current (Icw) olimited to 1 s / rated value 20 kA at AC / at 415 V / limited to 0.5 s / rated value Main circuit operational current operational curr	adjustable current response value current	
of instantaneous short-circuit trip unit / maximum short-time withstand current (Icw) olimited to 1 s / rated value at AC / at 415 V / limited to 0.5 s / rated value Amain circuit Operational current olimited to 20 kA Main circuit Operational current olimited to 0°C / rated value olimited to 0.5 s / rated value olimited to 0.5 s / rated value olimited to 1 s / rated value olimited to 2 kA olimited to 1 s / rated value olimited to 2 kA olimited to 1 s / rated value olimited to 2 kA olimited to 3 kA olimited to 2 kA olimited to 3 kA olimited to 3 kA olimited to 4 ka o		1 250 A
short-time withstand current (Icw) • limited to 1 s / rated value • at AC / at 415 V / limited to 0.5 s / rated value 20 kA Main circuit operational current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 60 °C / rated value 1 182 A • at 65 °C / rated value 1 122 A • at 70 °C / rated value 1 1057 A Auxiliary circuit number of CO contacts / for auxiliary contacts 4 Suitability suitability for use system protection	 of instantaneous short-circuit trip unit / minimum 	1 875 A
 • limited to 1 s / rated value • at AC / at 415 V / limited to 0.5 s / rated value 20 kA Main circuit operational current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 65 °C / rated value • at 70 °C / rated value • at 70 °C / rated value • at 70 °C / rated value Auxiliary circuit number of CO contacts / for auxiliary contacts Suitability suitability for use system protection 	of instantaneous short-circuit trip unit / maximum	18 750 A
 at AC / at 415 V / limited to 0.5 s / rated value Main circuit operational current at 40 °C / rated value at 50 °C / rated value 1 250 A at 55 °C / rated value 1 240 A at 60 °C / rated value 1 182 A at 65 °C / rated value 1 122 A at 70 °C / rated value 1 057 A Auxiliary circuit number of CO contacts / for auxiliary contacts Suitability suitability for use system protection 	short-time withstand current (lcw)	
Main circuit operational current • at 40 °C / rated value	limited to 1 s / rated value	20 kA
operational current • at 40 °C / rated value • at 50 °C / rated value • at 55 °C / rated value • at 60 °C / rated value • at 60 °C / rated value • at 65 °C / rated value • at 65 °C / rated value • at 70 °C / rated value 1 122 A • at 70 °C / rated value 1 1057 A Auxiliary circuit number of CO contacts / for auxiliary contacts 4 Suitability suitability for use system protection	 at AC / at 415 V / limited to 0.5 s / rated value 	20 kA
 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 1 122 A at 70 °C / rated value 1 057 A Auxiliary circuit number of CO contacts / for auxiliary contacts 4 Suitability system protection 	Main circuit	
 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 1 057 A Auxiliary circuit number of CO contacts / for auxiliary contacts Suitability suitability for use system protection 	operational current	
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 at 70 °C / rated value 1 057 A Auxiliary circuit number of CO contacts / for auxiliary contacts 4 Suitability suitability for use system protection	 at 40 °C / rated value 	1 250 A
 at 60 °C / rated value at 65 °C / rated value at 70 °C / rated value 1 057 A Auxiliary circuit number of CO contacts / for auxiliary contacts Suitability suitability for use system protection	 at 50 °C / rated value 	1 250 A
at 65 °C / rated value at 70 °C / rated value 1 122 A at 70 °C / rated value 1 057 A Auxiliary circuit number of CO contacts / for auxiliary contacts 4 Suitability suitability for use system protection	 at 55 °C / rated value 	1 240 A
◆ at 70 °C / rated value	 at 60 °C / rated value 	1 182 A
Auxiliary circuit number of CO contacts / for auxiliary contacts Suitability suitability for use system protection	 at 65 °C / rated value 	1 122 A
number of CO contacts / for auxiliary contacts Suitability suitability for use system protection	at 70 °C / rated value	1 057 A
Suitability suitability for use system protection	Auxiliary circuit	
suitability for use system protection	number of CO contacts / for auxiliary contacts	4
	Suitability	
Adjustable parameters	suitability for use	system protection
	Adjustable parameters	

adjustable current response value current	
of the short-time delayed short-circuit release / initial	1 250 A
value	1 200 A
 of the short-time delayed short-circuit release / full- scale value 	12 500 A
adjustable current response value current / of the current- dependent overload release / initial value	500 A
product component	
trip indicator	Yes
voltage trigger	No
 undervoltage release 	No
product extension / optional / motor drive	Yes
Product function	
product function	
grounding protection	No
Display and operation	
display version	Without display
Short circuit	
breaking capacity operating short-circuit current (lcs)	
• at 415 V / rated value	55 kA
at 500 V / rated value	36 kA
at 690 V / rated value	25 kA
breaking capacity maximum short-circuit current (Icu)	
at 415 V / rated value	55 kA
• at 440 V / rated value	55 kA
at 500 V / rated value	36 kA
at 690 V / rated value	25 kA
Connections	
arrangement of electrical connectors / for main current circuit	Main connection on front side
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	296 mm
width	280 mm
depth	183 mm
fastening method	fixed mounting
net weight	16 kg
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °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
General Product Approval	EMC Declaration of Conformity Test Certificates









Manufacturer De-**Miscellaneous Miscellaneous Dangerous Goods** claration **Information**

Further information

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-1AC13-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-1AC13-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-1AC13-0AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



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