## **Data sheet**

## 3VA2712-5AB03-0AA0

fixed-mounted molded case circuit breaker w. handle frame 1600; 4AUX and trip alarm switch S24; Icu "M" Icu=55kA @ 415V, 3-pole ETU320, LI, In=1250A rotary coding switch Ir=500...1250A li=1.5...15 x In N conductor protec. adjustable opt. w. ext. CT; up to 200% nut keeper kit No communication connection, no measurement function Without additional alarm switch assembly With mechanical calling without 2nd auxiliary release without 1st auxiliary release

product brand name product design of the product design of the product product version design of the actuating element type of the driving mechanism / motor drive No design of the overcurrent release ETU320  Ceneral technical data number of poles size of the circuit-breaker machanical service life (operating cycles) / stycical electrical endurance (operating cycles) / stycical insulation violage / rated value operating violage operating violage operating violage operating violage operating violage  operating capacity switching capacity class of the circuit breaker product data of the circuit breaker  * at 45 °C / rated value / maximum 1 250 A  supply violage operating violage * at AC / at 5000 Hz / rated value  * at 65 °C / rated value / maximum 1 250 A  supply violage operating violage  * at AC / at 5000 Hz / rated value  * at 67 °C rated value / maximum 1 250 A  supply violage  * at AC / at 5000 Hz / rated value  * at 67 °C rated value / maximum 1 41 W  ** ** ** ** ** ** ** ** ** ** ** ** *	Model	
design of the product product version design of the actuating element type of the driving mechanism manual operating mechanism (bype of the driving mechanism / motor drive design of the overcurrent release ETU320  General technical data number of poles size of the circuit-breaker mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / a AC-1 / at 380/415 V portation voltage / rated value  operational current at A5 °C / rated value / 1.250 A continuous current / rated value / 1.250 A continuous current / rated value / 690 V  Protection class protection class IP / on the front Broaking Capacity switching capacity class of the circuit breaker  which is a state / per pole maximum  at W for rated value of the current / at AC / in hot operating state / per pole maximum  at W Auxiliary circuit number of CO contacts / for auxiliary contacts  ### W  **Auxiliary circuit **Control component**  **In product details  product details  product details  product extension / optional / motor drive  **Ves **voltage trigger on No **voltage trigger o	product brand name	SENTRON
product version Selective Applications toggel handle actuator type of the driving mechanism manual operating mechanism type of the driving mechanism / motor drive No design of the overcurrent release ETU320  General technical data number of poles 3 size of the circuit-breaker 1600 A mechanism service life (operating cycles) / typical 1000 electrical endurance (operating cycles) / typical 1000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 2000 insulation voltage / rated value 1000 v 0 operating cycles / at AC-1 / at 380/415 V 2000 insulation voltage / rated value 1250 A 12	product designation	Molded case circuit breaker
design of the actuating element type of the driving mechanism motor drive type of the driving mechanism / motor drive dosign of the overcurrent release  Ceneral technical data number of poles size of the circuit-breaker 1000 A mechanical service life (operating cycles) / typical 1000 A electrical endurance (operating cycles) / typical 1000 A electrical endurance (operating cycles) / tal AC-1 / at 380/415 V 2000 insulation voltage / rated value 1000 V operational current  * at 45 °C / rated value 1250 A continuous curront / rated value 680 V  Protection datas protection datas   P / on the front   IP20  Auxiliary circuit   A / V   V   V   V   V   V   V   V   V   V	design of the product	MCCB
type of the driving mechanism type of the driving mechanism / motor drive design of the overcurrent release ETU320  General technical data number of poles size of the circuit-breaker mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / ta AC-1 / at 380/415 V electrical endurance (operating cycles) / ta AC-1 / at 380/415 V operational current  • at 45 °C / tated value  operating voltage  operating voltage  operating voltage  • al AC / at 50/60 Hz / rated value / maximum 1 250 A  Supply voltage  operating voltage  • al AC / at 50/60 Hz / rated value  690 V  Protection class Protection class Protection class IP / on the front Protection class IP / on the front  Brown for stated value of the current / at AC / in hot operating slab / per pole  • naximum 141 W  Auxiliary circuit number of CO contacts / for auxiliary contacts  4  Suitability for use  adjustable parameters  avoltage relative	product version	Selective Applications
type of the driving mechanism / motor drive design of the overcurrent release ETU320  General technical data  number of poles 3 size of the circuit-breaker 1600 A 1000 A	design of the actuating element	toggel handle actuator
design of the overcurrent release ETU320  General technical data number of poles 3 size of the circuit-breaker 1600 A mechanical service life (operating cycles) / typical 1000 electrical endirance (operating cycles) / typical 1000 v insulation voltage / rated value 1000 v operational current 4 at 43 c/ 7 rated value 1250 A continuous current / rated value / maximum 1250 A Supply voltage operating voltage at AC / at 50/80 Hz / rated value 690 v  Protection class IP / on the front IP20  Breaking Capacity switching capacity class of the circuit breaker M power loss IW]  on for rated value of the current / at AC / in hot operating state / per pole maximum 411 W  Ausiliary circuit number of CO contacts / for auxiliary contacts 4 Suitability suitability for use system protection Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component of trip indicator voltage trigger	type of the driving mechanism	manual operating mechanism
Ceneral technical data   number of poles   3	type of the driving mechanism / motor drive	No
number of poles size of the circuit-breaker mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / tal AC-1 / at 380/415 V 2 000 insulation voltage / rated value operational current • at 45 °C / rated value  operational current • at 45 °C / rated value / maximum 1 250 A  continuous current / rated value / maximum 1 250 A  Supply voltage • at AC / at 50/60 Hz / rated value  operating voltage • at AC / at 50/60 Hz / rated value  Protection class IP / on the front IP20  Breaking Capacity switching capacity class of the circuit breaker  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 141 W  Auxiliary circuit number of CO contacts / for auxiliary contacts 4  Sultability suitability for use   System protection   Adjustable current response value current / of the current-dependent overload release / initial value   Product details	design of the overcurrent release	ETU320
size of the circuit-breaker mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V insulation voltage / rated value 1 000 V operational current • at 45 °C / rated value 1 250 A continuous current / rated value / maximum 1 250 A  Supply voltage operating voltage • at AC / at 50/60 Hz / rated value  • at AC / at 50/60 Hz / rated value  • at AC / at 50/60 Hz / rated value  • protection class IP / on the front    P20	General technical data	
mechanical service life (operating cycles) / typical 1000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 2000 insulation voltage / rated value 1000 V  operational current	number of poles	3
electrical endurance (operating cycles) / at AC-1 / at 380/415 V 2 000  insulation voltage / rated value	size of the circuit-breaker	1600 A
insulation voltage / rated value 1000 V  operational current  • at 45 °C / rated value 1250 A  continuous current / rated value / maximum 1250 A  Supply voltage operating voltage • at AC / at 50/60 Hz / rated value 690 V  Protection class   P / on the front   IP20    Breaking Capacity   Switching capacity class of the circuit breaker   M    power loss [W] • for rated value of the current / at AC / in hot operating state / per pole   • maximum   141 W    Auxiliary circuit   number of CC contacts / for auxiliary contacts   4    Suttability   Switching to year   Switching   Swit	mechanical service life (operating cycles) / typical	1 000
operational current  • at 45 °C / rated value   1 250 A  Supply voltage  operating voltage  • at AC / at 50/60 Hz / rated value   690 V  Protection class IP / on the front   IP20    Breaking Capacity  switching capacity class of the circuit breaker   M  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole  • maximum   141 W  Auxiliary circuit  number of CO contacts / for auxiliary contacts   4  Suitability  suitability or use   Adjustable parameters   Adjustable parameters   Adjustable parameters   Adjustable current / of the current / of	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	2 000
ontinuous current / rated value / maximum     1 250 A     continuous current / rated value / maximum     1 250 A     Supply voltage     operating voltage	insulation voltage / rated value	1 000 V
continuous current / rated value / maximum 1 250 A  Supply voltage  operating voltage  • at AC / at 50/60 Hz / rated value 690 V  Protection class  protection class IP / on the front IP20  Breaking Capacity switching capacity class of the circuit breaker M  power loss [W] • for rated value of the current / at AC / in hot operating state / per pole • maximum 141 W  Auxiliary circuit number of CO contacts / for auxiliary contacts 4  Suitability suitability for use system protection  Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component • trip indicator Yes • voltage trigger No product strension / optional / motor drive  Product textension / optional / motor drive  No Product function • grounding protection • Go rounding protection No	operational current	
Operating voltage  • at AC / at 50/60 Hz / rated value 690 V  Protection class IP / on the front IP20  Breaking Capacity  switching capacity class of the circuit breaker M  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole • maximum 141 W  Auxiliary circuit number of CO contacts / for auxiliary contacts 4  Suitability  suitability for use system protection  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component • trip indicator Yes • voltage trigger No • undervoltage release No  product extension / optional / motor drive  Product function  product function • grounding protection No • communication function No	• at 45 °C / rated value	1 250 A
operating voltage	continuous current / rated value / maximum	1 250 A
e at AC / at 50/60 Hz / rated value 690 V  Protection class  protection class IP / on the front IP20  Breaking Capacity  switching capacity class of the circuit breaker M  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole  • maximum 141 W  Auxiliary circuit  number of CO contacts / for auxiliary contacts 4  Suitability  suitability for use system protection  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component  • trip indicator Yes  • voltage trigger No  • undervoltage release No  product tension / optional / motor drive No  Product function  • grounding protection No  • communication function No	Supply voltage	
protection class protection class IP / on the front  Breaking Capacity  switching capacity class of the circuit breaker  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole  • maximum  141 W  Auxiliary circuit  number of CO contacts / for auxiliary contacts  4  Suitability  suitability for use  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product demonstrate  • trip indicator  • trip indicator  • undervoltage release  • undervoltage release  Product struction  Product function  product function  • grounding protection  • communication function	operating voltage	
protection class IP / on the front IP20  Breaking Capacity  switching capacity class of the circuit breaker M  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole • maximum 141 W  Auxiliary circuit  number of CO contacts / for auxiliary contacts 4  Suitability suitability for use system protection  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component • trip indicator Yes • voltage trigger No • undervoltage release No product extension / optional / motor drive No  Product function  product function  • grounding protection • grounding protection • grounding protection • communication function  No	<ul><li>at AC / at 50/60 Hz / rated value</li></ul>	690 V
Breaking Capacity  switching capacity class of the circuit breaker  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole  • maximum  Auxiliary circuit  number of CO contacts / for auxiliary contacts  4  Suitability  suitability for use  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component  • trip indicator  • undervoltage release  • voltage trigger	Protection class	
switching capacity class of the circuit breaker  power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole • maximum  Auxiliary circuit  number of CO contacts / for auxiliary contacts  4  Suitability  suitability or use  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component  • trip indicator  • trip indicator  • undervoltage release  product extension / optional / motor drive  Product function  • grounding protection  • grounding protection  • grounding protection  • communication function  No	protection class IP / on the front	IP20
power loss [W]  • for rated value of the current / at AC / in hot operating state / per pole  • maximum  Auxiliary circuit  number of CO contacts / for auxiliary contacts  Suitability  suitability for use  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component  • trip indicator  • voltage trigger  • voltage trigger  • undervoltage release  product extension / optional / motor drive  Product function  • grounding protection  • grounding protection  • communication function  No	Breaking Capacity	
• for rated value of the current / at AC / in hot operating state / per pole     • maximum  Auxillary circuit  number of CO contacts / for auxiliary contacts  4  Suitability  suitability for use  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component     • trip indicator     • voltage trigger     • undervoltage release     • undervoltage release  product extension / optional / motor drive  Product function  • grounding protection  • grounding protection  • grounding protection  • communication function  No	switching capacity class of the circuit breaker	M
state / per pole	power loss [W]	
maximum     Auxiliary circuit     number of CO contacts / for auxiliary contacts      Suitability     suitability for use     Adjustable parameters     adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component     • trip indicator     • voltage trigger     • voltage trigger     • voltage release     product extension / optional / motor drive  Product function  product function     • grounding protection     • grounding protection     • communication function  No		47 W
Auxiliary circuit  number of CO contacts / for auxiliary contacts  Suitability  suitability for use  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component  • trip indicator  • voltage trigger  • voltage trigger  • undervoltage release  product extension / optional / motor drive  Product function  product function  • grounding protection  • grounding protection  • communication function  No		
number of CO contacts / for auxiliary contacts  Suitability  suitability for use  Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component  • trip indicator  • voltage trigger  • voltage trigger  • undervoltage release  No  product extension / optional / motor drive  No  Product function  • grounding protection  • grounding protection  • communication function  No		141 W
Suitability suitability for use Adjustable parameters adjustable current response value current / of the current-dependent overload release / initial value  Product details product component • trip indicator • voltage trigger • voltage release No product extension / optional / motor drive  Product function • grounding protection • grounding protection • communication function  system protection System pro		
suitability for use  Adjustable parameters  adjustable current response value current / of the current- dependent overload release / initial value  Product details  product component  • trip indicator  • voltage trigger  • undervoltage release  product extension / optional / motor drive  Product function  • grounding protection  • grounding protection  • communication function  system protection  System protection  System protection  System protection  No  System protection  System protection  No  Adjustable current / of the current- Sou A  S	·	4
Adjustable parameters  adjustable current response value current / of the current-dependent overload release / initial value  Product details  product component  • trip indicator  • voltage trigger  • undervoltage release  No  product extension / optional / motor drive  Product function  product function  • grounding protection  • communication function  No		
adjustable current response value current / of the current- dependent overload release / initial value  Product details  product component  • trip indicator  • voltage trigger  • undervoltage release  product extension / optional / motor drive  Product function  product function  • grounding protection  • communication function  500 A		system protection
dependent overload release / initial value  Product details  product component  • trip indicator  • voltage trigger  • undervoltage release  product extension / optional / motor drive  Product function  product function  • grounding protection  • communication function  No		
product component  • trip indicator  • voltage trigger  • voltage trigger  • undervoltage release  product extension / optional / motor drive  Product function  product function  • grounding protection  • communication function  No	dependent overload release / initial value	500 A
<ul> <li>trip indicator</li> <li>voltage trigger</li> <li>No</li> <li>undervoltage release</li> <li>No</li> <li>product extension / optional / motor drive</li> <li>No</li> </ul> Product function <ul> <li>grounding protection</li> <li>communication function</li> </ul> No <	Product details	
voltage trigger     undervoltage release     No product extension / optional / motor drive  Product function  product function     grounding protection     communication function  No	product component	
undervoltage release     product extension / optional / motor drive  Product function  product function      grounding protection     communication function  No	• trip indicator	Yes
product extension / optional / motor drive  Product function  product function  • grounding protection  • communication function  No	voltage trigger	No
Product function  product function  • grounding protection • communication function  No	undervoltage release	No
product function  • grounding protection  • communication function  No		No
• grounding protection • communication function  No	Product function	
• communication function No	product function	
	<ul> <li>grounding protection</li> </ul>	No
Display and operation	<ul> <li>communication function</li> </ul>	No
Biopia) and operation	Display and operation	
display version Without display	display version	Without display

Short circuit	
operating short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	100 kA
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
maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	100 kA
• 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
short-circuit current making capacity (lcm)	
• at 240 V / rated value	220 kA
• at 415 V / rated value	121 kA
• at 440 V / rated value	121 kA
• at 500 V / rated value	75.6 kA
• at 690 V / rated value	53 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	210 mm
depth	183 mm
fastening method	fixed mounting
net weight	14 kg
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
maximum	70 °C
Further information	

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-5AB03-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-5AB03-0AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA2712-5AB03-0AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA2712-5AB03-0AA0</a>

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications



