## Data sheet 3VA5322-7EF41-2AA0



circuit breaker 3VA5 UL frame 400 breaking capacity class C 100kA @ 480 V 4-pole, line protection TM240, ATAM, In=225A overload protection Ir=157,5A ...225A short circuit protection Ii=5...10 x In neutral unprotected w/o connection

Model	
product designation / according to UL file	CJAS
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type)	No
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM240
protection function of the overcurrent release	LI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	600 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	48 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	15.83 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 000
electrical endurance (operating cycles) / at 480 V	6 000
electrical endurance (operating cycles) / at 600 V	3 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
product function	
<ul> <li>communication function</li> </ul>	No
other measurement function	No
Net Weight	6 820 g
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
• at 40 °C	225 A
• at 45 °C	220 A
• at 50 °C	216 A
• at 55 °C	211 A
• at 60 °C	206 A
• at 65 °C	201 A
• at 70 °C	197 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	С
maximum short-circuit current breaking capacity (Icu)	

* at 242 V	240 \/	200 kA
### ### ### ### #### #################	• at 240 V	200 kA
operating short-incuit current breaking capacity (ics)  • at 26 9 V  • at 46 9 V  • at 66 9 V  • at 66 9 V  • at 415 V  • at 66 9 V  • at 415 V  • at 66 9 V  • at 415 V  • at 66 9 V  • at 415 V  • at 60 9 V  • at 415 V  • at 60 9 V  • at 415 V  • at 60 9 V  • at 415 V  • at 60 9 V  • at 415 V  • at 60 9 V  • at 415 V  • at 60 9 V  • at 415 V  • at 60 9 V  • at 60 9 V  • at 415 V  • at 60 9 V  • at 60 9 V  • at 415 V  • at 60 9 V  • at 414 5 V  • at 60 9 V  • at 414 5 V  • at 60 9 V  • at 414 9 V  • at 60 9 V  • at 42 9 V  • at 43 0 V  • at 44 0 V  • at 43 0 V  • at 44 0 V  • at 44 0 V  • at 45 0 V  • at 44 0 V  • at 45 0 V  • at 44 0 V  • at 45 0 V  • at 44 0 V  • at 45 0 V  • at 45 0 V  • at 46 0		
### 200 V		10 KA
11 14 15 V   10 16 NA   10 16 N		
* 1890 V		
short-Circuit current making capacity (tom)		
# 1240 V	• at 690 V	6 kA
4415 V	short-circuit current making capacity (Icm)	
• at 880 V      design of short-circuit protection     design of short-circuit protection     switching power values in IOC networks, see the SVA molided case circuit chapter  Switching capacity according to UL 483  current breaking capacity     • al 240 V     • al 480 V     • al 480 V     • al 680 V  Adjustable parameters  Adjustable pa	• at 240 V	440 kA
design of short-circuit protection breaker device manual; link to be found under Service & Support in the last chapter  Switching capacity according to UL 489  current breaking capacity	● at 415 V	242 kA
breaker device manual; link to be found under Service & Support in the last chapter  Switching capacity according to UL 489  current breaking capacity	• at 690 V	17 kA
current breaking capacity	design of short-circuit protection	breaker device manual; link to be found under Service & Support in the last
ent 240 V   ot 480 V   ot 480 V   ot 58 KA	Switching capacity according to UL 489	
	current breaking capacity	
adjustable parameters adjustable response value setting current (ir) / of the L-trip / with 12 characteristic	• at 240 V	200 kA
adjustable parameters adjustable response value setting current (ir) / of the L-trip / with 12 characteristic	• at 480 V	100 kA
adjustable response value setting current (Ir) / of the L-trip / with 1/2t characteristic		35 kA
adjustable response value setting current (Ir) / of the L-trip / with 1/2t characteristic	Adjustable parameters	
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic  minimum maximum maximum minimum minimum minimum maximum	adjustable response value setting current (Ir) / of the L-trip / with	
adjustable response value delay time (tr) / for L-tripping / with 12t characteristic	• minimum	180 A
characteristic      minimum     maximum     maximum	• maximum	225 A
■ maximum     adjustable response value setting current (ii) / for I-tripping     ● minimum		
adjustable response value setting current (II) / for I-tripping	• minimum	1 s
minimum maximum maxim	• maximum	1 s
	adjustable response value setting current (li) / for I-tripping	
adjustable setting current (InN) / for N-tripping	• minimum	1 125 A
minimum makinum design of the N-conductor protection Without product function / grounding protection No  Mechanical Design  product component undervoltage release No voltage trigger No trip indicator No height [in] 9.76 in height 248 mm width [in] 7.24 in width 184 mm depth [in] 4.33 in depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts of the supplied basic switch  Environmental conditions  Environmental conditions  protection class IP / on the front ambient temperature of during operation / minimum  -25 °C	• maximum	2 250 A
maximum     o A  design of the N-conductor protection     product function / grounding protection     No  Mechanical Design  product component     • undervoltage release     • voltage trigger     • trip indicator     height [in]     height [in]     height [in]     width	adjustable setting current (InN) / for N-tripping	
design of the N-conductor protection  product function / grounding protection  Mechanical Design  product component  • undervoltage release  • voltage trigger  • trip indicator  height [in]  side the member of Co contacts / for auxiliary contacts  Auxiliary circuit  number of CO contacts / for auxiliary contacts  • of the supplied basic switch  Environmental conditions  protection class IP / on the front  ambient temperature  • during operation / minimum  Volume of Co contacts / for the front  ambient temperature  • during operation / minimum  Possible Auxiliary circuit conditions  Parotection class IP / on the front  ambient temperature  • during operation / minimum  -25 °C	• minimum	0 A
product function / grounding protection  Mechanical Design  product component  • undervoltage release • voltage trigger • voltage trigger • ir ji indicator No  height [in] 9.76 in  height 10 248 mm  width [in] 7.24 in  width 184 mm  depth [in] 4.33 in  depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit  without Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive  manufacturer's article number • of the supplied basic switch  Environmental conditions  protection class IP / on the front ambient temperature • during operation / minimum  -25 °C	• maximum	0 A
product component  • undervoltage release • voltage trigger • trip indicator  height [in] 9.76 in  height width [1] 7.24 in width 184 mm depth [in] 4.33 in depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection / tor main current circuit Without Auxillary circuit number of CO contacts / for auxillary contacts  product extension / optional / motor drive  • of the supplied basic switch  Environmental conditions  protection class IP / on the front ambient temperature • during operation / minimum  -25 °C	design of the N-conductor protection	Without
product component  • undervoltage release • voltage trigger • trip indicator No height [in] 9.76 in height width [in] 7.24 in width 184 mm depth [in] 4.33 in depth fin] 4.33 in depth Tonnections arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Type of electrical connection / for main current circuit Tumber of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive manufacturer's article number • of the supplied basic switch  Environmental conditions  protection class IP / on the front ambient temperature • during operation / minimum  -25 °C	product function / grounding protection	No
undervoltage release     voltage trigger     No     trip indicator     No height [in] 9.76 in height 248 mm width [in] 7.24 in width 184 mm depth [in] 4.33 in depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without  Auxillary circuit number of CO contacts / for auxiliary contacts  product extension / optional / motor drive yes manufacturer's article number     of the supplied basic switch  Environmental conditions  protection class IP / on the front IP40 ambient temperature     our of the supplied basic switch  IP40 ambient temperature     our of the supplied basic switch  IP40 ambient temperature     our of the supplied product / minimum  -25 °C	Mechanical Design	
voltage trigger     trip indicator     No height [in] 9.76 in height 248 mm width [in] 7.24 in width 184 mm depth [in] 4.33 in depth 110 mm  Connections arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without Auxiliary circuit number of CO contacts / for auxiliary contacts 0  Accessories product extension / optional / motor drive Yes manufacturer's article number     of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40 ambient temperature     oduring operation / minimum -25°C	product component	
voltage trigger     trip indicator     No height [in] 9.76 in height 248 mm width [in] 7.24 in width 184 mm depth [in] 4.33 in depth 110 mm  Connections arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without Auxiliary circuit number of CO contacts / for auxiliary contacts 0  Accessories product extension / optional / motor drive Yes manufacturer's article number     of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40 ambient temperature     oduring operation / minimum -25°C	undervoltage release	No
• trip indicator No height [in] 9.76 in height 248 mm width [in] 7.24 in width 184 mm depth in] 4.33 in depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without  Auxiliary circuit number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes manufacturer's article number  • of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40 ambient temperature • during operation / minimum -25 °C		No
height [in] 9.76 in height 248 mm width [in] 7.24 in width 184 mm depth [in] 4.33 in depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without Auxiliary circuit number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes manufacturer's article number		No
height 248 mm  width [in] 7.24 in  width 184 mm  depth [in] 4.33 in  depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection  type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes  manufacturer's article number  of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40  ambient temperature oduring operation / minimum -25 °C		
width [in] 7.24 in  width 184 mm  depth [in] 4.33 in  depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection  type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes  manufacturer's article number  of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40  ambient temperature of during operation / minimum -25 °C		
width 184 mm  depth [in] 4.33 in  depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection  type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes  manufacturer's article number  • of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40  ambient temperature  • during operation / minimum -25 °C		
depth [in] 4.33 in depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes  manufacturer's article number  • of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40  ambient temperature • during operation / minimum -25 °C		
depth 110 mm  Connections  arrangement of electrical connectors / for main current circuit Without connection type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes  manufacturer's article number  • of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40  ambient temperature • during operation / minimum -25 °C		
arrangement of electrical connectors / for main current circuit Without connection  type of electrical connection / for main current circuit Without  Auxiliary circuit  number of CO contacts / for auxiliary contacts 0  Accessories  product extension / optional / motor drive Yes  manufacturer's article number  of the supplied basic switch 3VA53227EF412AA0  Environmental conditions  protection class IP / on the front IP40  ambient temperature of during operation / minimum -25 °C		
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Auxiliary circuit  number of CO contacts / for auxiliary contacts  Accessories  product extension / optional / motor drive		
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product extension / optional / motor drive  product extension / optional / motor drive  manufacturer's article number  of the supplied basic switch  Servironmental conditions  protection class IP / on the front  ambient temperature  during operation / minimum  -25 °C		
product extension / optional / motor drive  manufacturer's article number of the supplied basic switch  Environmental conditions  protection class IP / on the front  ambient temperature of during operation / minimum  Pes  Yes  3VA53227EF412AA0  IP40  IP40  and article number are number and article number and article number and article number and article number are number and article number and article number are number and article number and article number are number and article number and article number and article number and article number are number and article number are number and article number and article number are number and article number an	· · · · · · · · · · · · · · · · · · ·	
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of the supplied basic switch      3VA53227EF412AA0  Environmental conditions  protection class IP / on the front     IP40  ambient temperature     during operation / minimum  -25 °C		TES
Environmental conditions  protection class IP / on the front ambient temperature  • during operation / minimum  -25 °C		0)/45000755440440
protection class IP / on the front IP40  ambient temperature  • during operation / minimum -25 °C		<u>3VA532Z/EF41ZAAU</u>
ambient temperature  • during operation / minimum  -25 °C		
• during operation / minimum -25 °C		IP40
◆ during storage / minimum  -40 °C		
	during storage / minimum	-40 °C

o during storage / maximum

 80 °C

Certificates

reference code / according to IEC 81346-2

General Product Approval

 Declaration of Conformity

 Marine / Shipping
 other

Confirmation

Miscellaneous

EAC

UK



**Miscellaneous** 

other

Confirmation

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5322-7EF41-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5322-7EF41-2AA0

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

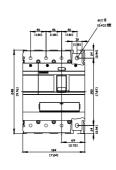
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5322-7EF41-2AA0

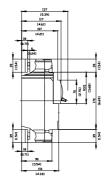
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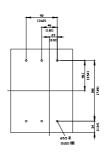
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Tender specifications

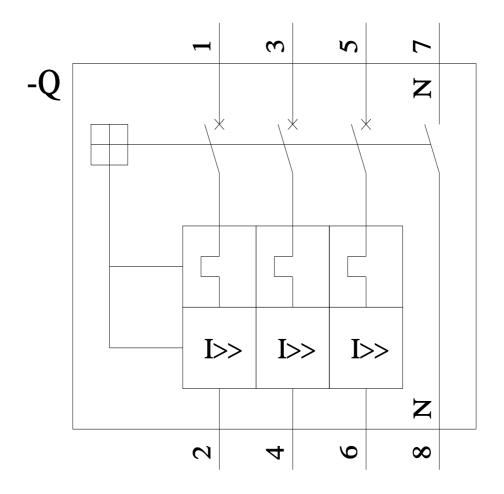
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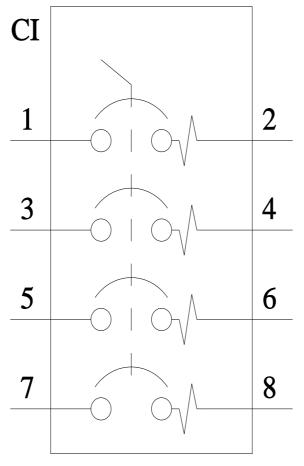












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