SIEMENS

Data sheet 5SJ4325-7HG42



Circuit breaker 10kA, 3-pole, C, 25A according to UL 489-480Y/277V

Model	
product brand name	SENTRON
product designation	Miniature circuit breakers
design of the product	Miniature circuit-breaker 5SJ4
General technical data	
number of poles	3
design of pole	3P
tripping characteristic class	С
mechanical service life (operating cycles) typical	10 000
installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	F
overvoltage category	3
degree of pollution	3
/oltage	
insulation voltage (Ui) at AC rated value	440 V
Supply voltage	
supply voltage	
at AC rated value	400 V
at DC rated value	60 V
value range of the supply voltage frequency	50/60 Hz
operating voltage	
 at AC according to UL 489 and CSA C22.2 No. 5-02 maximum 	277 V
 at DC rated value maximum 	60 V
 at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum 	60 V
 at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum 	125 V
supply voltage frequency rated value	50 Hz
Protection class	
protection class IP	IP20, with connected conductors, IP 40 in the handle range
Switching capacity	
switching capacity current	
 according to EN 60898 rated value 	10 kA
 according to IEC 60947-2 rated value 	15 kA
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	2.9 W
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	480/277

suitability for operation Product details product component • tunnel terminals top • tunnel terminals bottom • combined terminal top • combined terminal bottom • neutral conductor switching product feature • halogen-free • sealable • selizon-free • sealable • silicon-free • yes Product function product function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short circuit short-circuit current breaking capacity (Icn) at AC according to Ut. 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum • maximum 1 tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height vidth 45 4 mm depth number of modular width units fastening method mounting position any **Terminal tightening lindustry 1 to kA 10 kA 10 kA 11 kA 121 mm width 35 mm 477 m	b.in
product component • tunnel terminals top • tunnel terminals bottom • combined terminal top • combined terminal bottom • neutral conductor switching product feature • halogen-free • sealable • silicon-free • sealable • silicon-free • sealable • silicon-free • sealable • silicon-free • Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short circuit Short circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum • maximum • maximum • maximum position of power supply cord Mechanical Design height 121 mm width depth 70 mm installation depth 70 mm installation depth 70 mm number of modular width units 3 afastening method nounting position No Yes Yes Yes Yes Yes Yes Yes Ye	b.in
tunnel terminals top tunnel terminals bottom tunnel terminals bottom combined terminal top combined terminal bottom results conductor switching results conductor consumers c	b.in
 tunnel terminals bottom combined terminal top combined terminal top yes neutral conductor switching No product feature halogen-free sealable silicon-free Yes silicon-free Yes product extension installable supplementary devices Preduct function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing minimum maximum maximum 25 mm² tightening torque with screw-type terminals maximum position of power supply cord Any Mechanical Design height depth no mm installation depth number of modular width units 3 fastening method on standard mounting rail any 	b.in
combined terminal top combined terminal bottom neutral conductor switching product feature halogen-free sealable sealable selicon-free yes product extension installable supplementary devices Product function product function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing minimum maximum maximum maximum meximum meximum soliton of power supply cord Any Mechanical Design height installation depth number of modular width units fastening method mounting position Yes Yes Yes Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 10 kA 10 kA 10 kA 10 kA 11 kA 12 tmm 3.5 N·m 4.70 mm 121 mm 121 mm 121 mm 121 mm 121 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 mm 121 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 129 mm 120 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 129 mm 120 mm 121 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 mm 120 mm 121 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 mm 120 mm 120 mm 121 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 mm 120 mm 120 mm 120 mm 121 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 mm	b.in
combined terminal bottom neutral conductor switching product feature halogen-free sealable selicon-free silicon-free yes selicon-free yes Product function product function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing minimum maximum maximum maximum ightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height indicated in the product of modular width units installation depth number of modular width units installation depth number of modular width units installation depth inumber of modular width units installation depth inumber of modular width units installation depth inumber of modular width units	b.in
• neutral conductor switching product feature • halogen-free • sealable • sealable • silicon-free • silicon-free • silicon-free • product extension installable supplementary devices Product function product function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short-circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum • maximum • maximum ightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height identify the section of	b.in
product feature	b.in
 halogen-free sealable yes yes<td>b.in</td>	b.in
sealable silicon-free yes Product extension installable supplementary devices Product function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum • maximum itightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height vidth depth ro mm installation depth number of modular width units fastening method mounting position remainder Yes Yes Yes Yes Yes Yes Yes Y	b.in
silicon-free product extension installable supplementary devices Product function product function onte Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connectable conductor cross-section finely stranded with core end processing	b.in
product extension installable supplementary devices Product function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum 10.75 mm² 25 mm² tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height vidth depth 70 mm installation depth number of modular width units fastening method mounting position Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 0.75 m/3 10 kA 10 kA 110 kA 121 kA 121 mm² 121 mm 121 mm 121 mm 121 mm 121 mm 121 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 mm 120 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 mm 120 mm 120 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 mm 120 mm 121 mm 121 mm 122 mm 123 mm 124 mm 125 mm 125 mm 126 mm 127 mm 128 mm 129 mm 129 mm 120 m	b.in
Product function product function note Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 Short circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum 10.75 mm² 25 mm² tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height 121 mm width depth 70 mm installation depth number of modular width units fastening method mounting position any	lb.in
product function note Short circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum 10.75 mm² 25 mm² tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height vidth depth for mm installation depth number of modular width units fastening method mounting position Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31 10 kA 10 kA 10 kA 110 kA 110 kA 110 kA 110 kA 110 kA 111 kA 112 kB 112	lb.in
Short circuit short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum 10.75 mm² 25 mm² tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height 121 mm width 54 mm depth 70 mm installation depth 70 mm number of modular width units 3 fastening method mounting position 10 kA 10 kA 110 kA 12 kA 12 kA 12 kA 12 kA 12 kA 12 kA 13 kA 14 kA 15 kA 16 kA 17 kA 18 kA 18 kA 18 kA 18 kA 18 kA 18 kA 19 kA 10 kA 11 kA 10 kA 11 kA 11 kA 11 kA 12 kA 12 kA 13 kA 14 kA 15 kA 16 kA 17 kA 18 kA 18 kA 18 kA 18 kA 19 kA 10 ka	lb.in
short-circuit current breaking capacity (Icn) at AC according to UL 1077 and CSA C22.2 No.235 Connections connectable conductor cross-section finely stranded with core end processing • minimum • maximum • maximum tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height uidth depth installation depth number of modular width units fastening method mounting position 10 kA 10 kA 10 kA 10 kA 11 kA 12 kA 12 mm² 12 mm² 12 mm² 12 mm 12 mm 13 mm 14 mm 15 mm 15 mm 16 mm 17 mm 17 mm 18 mm 1	
Connectable conductor cross-section finely stranded with core end processing In maximum	
connectable conductor cross-section finely stranded with core end processing • minimum • maximum 25 mm² tightening torque with screw-type terminals maximum position of power supply cord Mechanical Design height 121 mm width 54 mm depth 70 mm installation depth 70 mm number of modular width units fastening method mounting position any	
end processing	
■ maximum	
tightening torque with screw-type terminals maximum position of power supply cord Any Mechanical Design height 121 mm width 54 mm depth 70 mm installation depth number of modular width units fastening method mounting position 3.5 N·m Any	
position of power supply cord Mechanical Design height 121 mm width 54 mm depth 70 mm installation depth 70 mm number of modular width units 3 fastening method on standard mounting rail mounting position Any	
Mechanical Design height 121 mm width 54 mm depth 70 mm installation depth 70 mm number of modular width units 3 fastening method on standard mounting rail mounting position any	
Mechanical Design height 121 mm width 54 mm depth 70 mm installation depth 70 mm number of modular width units 3 fastening method on standard mounting rail mounting position any	
width 54 mm depth 70 mm installation depth 70 mm number of modular width units 3 fastening method on standard mounting rail any	
depth 70 mm installation depth 70 mm number of modular width units 3 fastening method on standard mounting rail any	
installation depth 70 mm number of modular width units 3 fastening method on standard mounting rail mounting position any	
number of modular width units fastening method on standard mounting rail mounting position any	
number of modular width units 3 fastening method on standard mounting rail any	
mounting position any	
mounting position any	
net weight 497 g	
Environmental conditions	
standard IEC / EN 60947-2 / UL 489	
vibration resistance 50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)	
vibration resistance according to IEC 60068-2-6 ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz	
ambient temperature during operation	
• minimum 55 °C	
• maximum -25 °C	
ambient temperature during operation max. 95% humidity	
ambient temperature during storage	
• minimum -40 °C	
• maximum 75 °C	
General Product Approval Declaration of Con	



Confirmation









Test Certificates other Environment

<u>Special Test Certificate</u> Confirmation Miscellaneous Environmental Confirmations

urther 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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SJ4325-7HG42

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ432

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

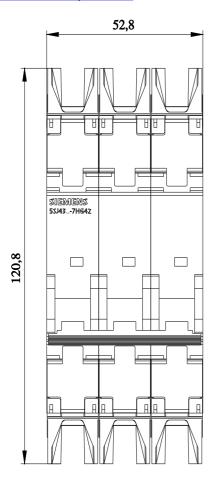
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SJ4325-7HG42

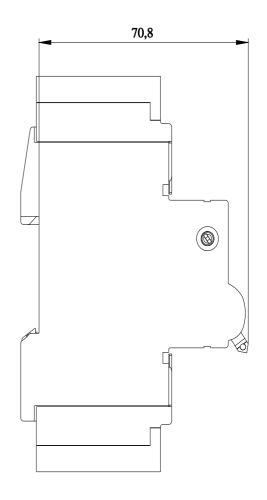
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





last modified:

8/13/2023

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

5SJ43257HG42