## **SIEMENS**

Data sheet 5SJ4345-7HG41



Miniature circuit breaker 240 V 10kA, 3-pole, C, 45 A, D=70 mm according to UL 489  $\,$ 

product brand name product designation design of the product designation design of the product Miniature circuit-breakers Miniature circuit-breaker SSJ4  General technical data  number of poles design of pole 3P tripping characteristic class CC mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 2042 according to IEC 750 overvoltage category 3 Suitable for environment B (immunity to interference not applicable) F overvoltage (UI) at AC rated value 440 V  Supply voltage  supply voltage  supply voltage  at AC rated value 400 V at DC rated value 400 V operating voltage  at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC rated value maximum  at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value 50 Hz  Protection class P  IP20, with connected conductors, IP 40 in the handle range  Switching capacity  switching capacity  switching capacity current  according to IEC 60947-2 rated value  10 kA	Model	
design of the product  General technical data  number of poles design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of poliution 3  Voltage  insulation voltage (Ui) at AC rated value  * at C rated value * at AC rated value * at AC rated value * at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC rated value maximum  * at DC rated value maximum  * at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to EU 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to EU 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to EU 489 and CSA C22.2 No. 5-02 maximum  * at DC 3-channel according to EU 5-channel according to EU 5-cha	product brand name	SENTRON
General technical data  number of poles design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 2042 according to IEC 750 overvoltage category degree of pollution  Voltage  supply voltage supply voltage  **at AC rated value** **at AC rated value** **at AC according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC rated value maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 C22 No. 5-02 maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 C22 No. 5-02 maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 C22 No. 5-02 maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 **supply voltage frequency rated value maximum rated value maximum rated rated rated rated rated rated rated rated	product designation	Miniature circuit breakers
number of poles design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 degree of pollution 3  Voltage insulation voltage (Ui) at AC rated value  **AU V Supply voltage supply voltage **supply voltage **supply voltage **at AC rated value **at C rated value **at C according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum **supply voltage frequency foliage fo	design of the product	Miniature circuit-breaker 5SJ4
design of pole tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of pollution 3 Voltage supply voltage  • at AC rated value • at DC rated value • at DC rated value maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC shannel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC schannel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC schannel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC schannel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC schannel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC schannel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC schannel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.2 No. 5-02 maximum • at DC schannel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C35.4 No. 5-02 maximum  • at DC schannel according to UL 489 and CSA C35.4 No. 5-02 maximum  • at DC schannel according to UL	General technical data	
tripping characteristic class mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of pollution  Voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value maximum • at DC stangle channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C3-channel according to UL 489 and CSA C4-channel according to UL 489 and CSA C4-channel according to UL 48	number of poles	3
mechanical service life (operating cycles) typical installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 degree of pollution 3 3  Voltage insulation voltage (Ui) at AC rated value 440 V  Supply voltage supply voltage 440 V  Supply voltage 400 V 400	design of pole	3P
installation environment regarding EMC reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category degree of pollution  Voltage insulation voltage (Ui) at AC rated value  Supply voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum • at DC rated value maximum • at DC rated value maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.2 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 3-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 4-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 4-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 4-channel according to UL 489 and CSA C32.3 No. 5-02 maximum  • at DC 5-channel according to UL 489 and CSA C32	tripping characteristic class	C
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 overvoltage category 3 3 degree of pollution 3 3 Voltage  insulation voltage (Ui) at AC rated value 440 V  Supply voltage  supply voltage  • at AC rated value 400 V • at DC rated value 50/60 Hz operating voltage  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum 60 V • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No.5 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No.5 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No.5 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No.5 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No.5 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No.5 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2	mechanical service life (operating cycles) typical	10 000
according to IEC 204-2 according to IEC 750 overvoltage category 3 degree of pollution 3  Voltage insulation voltage (Ui) at AC rated value 440 V  Supply voltage supply voltage supply voltage  ***at AC rated value 60 V **at DC rated value 50/660 Hz operating voltage  ***at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  ***at AC rated value maximum 60 V  ***at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum 125 V  **C22.2 No. 5-02 maximum 50 Hz SV  ***c22.2 No. 5-02 ma	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)
degree of pollution  Voltage  insulation voltage (Ui) at AC rated value  440 V  Supply voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum • at DC rated value maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value  50 Hz  Protection class  protection class IP  Switching capacity  switching capacity current • according to EN 60898 rated value  10 kA  15 kA  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		F
Insulation voltage (Ui) at AC rated value  Supply voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value • at Cacording to UL 489 and CSA C22.2 No. 5-02 maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value  50 Hz  Protection class  protection class IP Switching capacity switching capacity switching capacity current • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value  Tisk A  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	overvoltage category	3
insulation voltage (Ui) at AC rated value  Supply voltage  supply voltage  • at AC rated value • at DC rated value • at DC rated value value range of the supply voltage frequency operating voltage • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value  50 Hz  Protection class  Protection class IP Switching capacity switching capacity current • according to EN 60898 rated value 10 kA • according to IEC 60947-2 rated value  11 kA  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	degree of pollution	3
supply voltage  • at AC rated value • at DC rated value • at DC rated value  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum • at DC rated value maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value  Protection class  protection class IP  Protection class IP  Protection class IP  IP20, with connected conductors, IP 40 in the handle range  Switching capacity switching capacity current • according to IEC 60947-2 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  Current	Voltage	
supply voltage  • at AC rated value • at DC rated value • at DC rated value value range of the supply voltage frequency operating voltage • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC rated value maximum • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum supply voltage frequency rated value  Protection class protection class protection class IP  Switching capacity switching capacity switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value  10 kA • according to EC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	insulation voltage (Ui) at AC rated value	440 V
at AC rated value at DC rated value at DC rated value value range of the supply voltage frequency operating voltage  at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC rated value maximum  at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value  Protection class protection class protection class IP  IP20, with connected conductors, IP 40 in the handle range  Switching capacity switching capacity switching capacity current  according to IEC 60947-2 rated value  10 kA  according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	Supply voltage	
at DC rated value value range of the supply voltage frequency operating voltage  at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC rated value maximum  at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value  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  according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	supply voltage	
value range of the supply voltage frequency operating voltage  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC rated value maximum  • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value  Protection class  protection class IP  Switching capacity  switching capacity  switching capacity current • according to EN 60898 rated value • according to EN 60898 rated value  10 kA • according to EN 60898 rated value  15 kA  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	<ul> <li>at AC rated value</li> </ul>	400 V
operating voltage  • at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC rated value maximum  • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value  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  • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		60 V
at AC according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC rated value maximum  at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value  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  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	value range of the supply voltage frequency	50/60 Hz
maximum  • at DC rated value maximum  • at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value  Protection class  protection class IP  Switching capacity  switching capacity  switching capacity current  • according to EN 60898 rated value  10 kA  • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		
at DC single channel according to UL 489 and CSA C22.2 No. 5-02 maximum  at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value  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  according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		240 V
C22.2 No. 5-02 maximum  • at DC 2-channel according to UL 489 and CSA C22.2 No. 5-02 maximum  supply voltage frequency rated value  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 • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	<ul> <li>at DC rated value maximum</li> </ul>	60 V
C22.2 No. 5-02 maximum supply voltage frequency rated value  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 • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current		60 V
Protection class IP IP20, with connected conductors, IP 40 in the handle range  Switching capacity  switching capacity current  • according to EN 60898 rated value • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	· · · · · · · · · · · · · · · · · · ·	125 V
protection class IP  Switching capacity  switching capacity current  • according to EN 60898 rated value • according to IEC 60947-2 rated value  Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current	supply voltage frequency rated value	50 Hz
Switching capacity switching capacity current  • according to EN 60898 rated value • 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  Current	Protection class	
switching capacity current  • according to EN 60898 rated value  • according to IEC 60947-2 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  Current	protection class IP	IP20, with connected conductors, IP 40 in the handle range
<ul> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> <li>bissipation</li> <li>power loss [W] for rated value of the current at AC in hot operating state per pole</li> <li>Current</li> </ul>	Switching capacity	
<ul> <li>according to EN 60898 rated value</li> <li>according to IEC 60947-2 rated value</li> <li>bissipation</li> <li>power loss [W] for rated value of the current at AC in hot operating state per pole</li> <li>Current</li> </ul>	switching capacity current	
Dissipation  power loss [W] for rated value of the current at AC in hot operating state per pole  Current  6.1 W		10 kA
power loss [W] for rated value of the current at AC in hot operating state per pole  Current  6.1 W	<ul> <li>according to IEC 60947-2 rated value</li> </ul>	15 kA
operating state per pole  Current	Dissipation	
		6.1 W
operational current	Current	
	operational current	

<ul> <li>at 30 °C rated value</li> </ul>	45 A
<ul> <li>at 40 °C rated value</li> </ul>	45 A
<ul> <li>at 45 °C rated value</li> </ul>	44.1 A
<ul> <li>at 50 °C rated value</li> </ul>	43.2 A
<ul> <li>at 55 °C rated value</li> </ul>	42.2 A
<ul> <li>at 60 °C rated value</li> </ul>	41.4 A
at AC rated value	45 A
Main circuit	
type of voltage supply at AC according to UL 489 and CSA C22.2 No. 5-02	240
suitability for operation	Mechanical engineering / industry
Product details	
product component	
<ul> <li>tunnel terminals top</li> </ul>	No
<ul> <li>tunnel terminals bottom</li> </ul>	No
<ul> <li>combined terminal top</li> </ul>	Yes
<ul> <li>combined terminal bottom</li> </ul>	Yes
<ul> <li>neutral conductor switching</li> </ul>	No
product feature	
<ul><li>halogen-free</li></ul>	Yes
• sealable	Yes
• silicon-free	Yes
product extension installable supplementary devices	Yes
Product function	
product function note	Terminal tightening torque for Cu, 60/75°C; 3.5Nm/31lb.in
Short circuit	3 - 3 - 3 - 4
short-circuit current breaking capacity (Icn) at AC	10 kA
according to UL 1077 and CSA C22.2 No.235	IU NA
Connections	
connectable conductor cross-section finely stranded with core end processing	
• minimum	0.75 mm <sup>2</sup>
	25 mm²
<ul><li>maximum</li></ul>	25 MMT
tightening torque with screw-type terminals maximum	3.5 N·m
tightening torque with screw-type terminals maximum	3.5 N·m
tightening torque with screw-type terminals maximum position of power supply cord	3.5 N·m
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design	3.5 N·m Any
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design height	3.5 N·m Any
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width	3.5 N·m Any 110 mm 54 mm
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth	3.5 N·m Any  110 mm 54 mm 70 mm
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method	3.5 N·m Any  110 mm 54 mm 70 mm 3 on standard mounting rail
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position	3.5 N·m Any  110 mm 54 mm 70 mm 3 on standard mounting rail any
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight	3.5 N·m Any  110 mm 54 mm 70 mm 3 on standard mounting rail any
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions	3.5 N·m Any  110 mm 54 mm 70 mm 3 on standard mounting rail any 508 g
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 508 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 508 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 508 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation  • minimum  • maximum	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 508 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz  55 °C -25 °C
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation  • minimum  • maximum ambient temperature during operation	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 508 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz  55 °C
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation  • minimum  • maximum	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 508 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz  55 °C -25 °C
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation  • minimum  • maximum  ambient temperature during operation ambient temperature during storage	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 508 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz  55 °C -25 °C max. 95% humidity
tightening torque with screw-type terminals maximum position of power supply cord  Mechanical Design  height width depth installation depth number of modular width units fastening method mounting position net weight  Environmental conditions  vibration resistance vibration resistance according to IEC 60068-2-6 ambient temperature during operation  • minimum  • maximum  ambient temperature during storage  • minimum	3.5 N·m Any  110 mm 54 mm 70 mm 70 mm 3 on standard mounting rail any 508 g  50 m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) ±1 mm at 5 to 25 Hz; 50 m/s² at 25 to 150 Hz  55 °C -25 °C max. 95% humidity -40 °C



Confirmation









Test Certificates other

<u>Miscellaneous</u> <u>Special Test Certificate</u> <u>Confirmation</u> <u>Miscellaneous</u> <u>ate</u>

Environmental Confirmations

## **Further information**

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=5SJ4345-7HG41

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

https://support.industry.siemens.com/cs/ww/en/ps/5SJ4345-7HG41

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

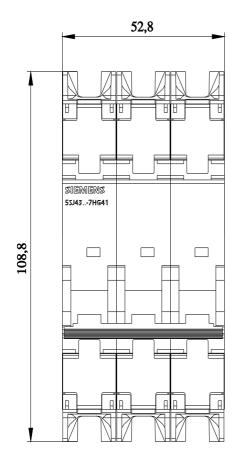
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SJ4345-7HG41

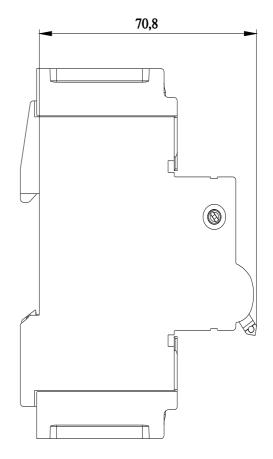
**CAx-Online-Generator** 

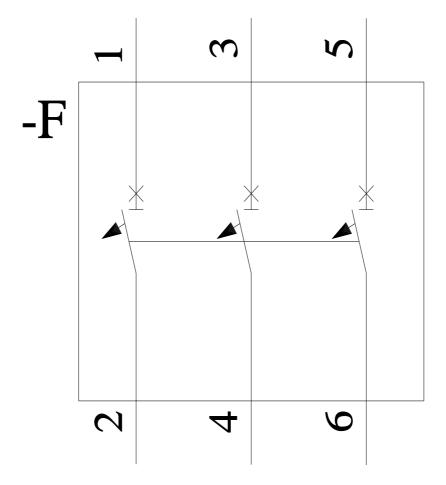
http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications







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