## SIEMENS

## Data sheet

## 5SJ4116-8HG40



Miniature circuit breaker 240 V 14kA, 1-pole, D, 16A, D=70 mm according to UL 489, equal polarity

product brand name         SENTRON           product designation         Miniature circuit breakers           design of the product         Miniature circuit breaker SSI4           General technical data         1           number of poles         1           titpping characteristic class         D           mechanical service life (switching cycles) / typical         10 000           installation environment regarding EMC         Suitable for environment B (immunity to interference not applicable)           reference code / according to DIN 40719 extended         3           according to EC 204-2 / according to DIN 40719 extended         3           according to DIN 40719 extended         F           overworklage category         3           type of voltage / of the operating voltage         AC/DC           insulation voltage (UI) / at AC / rated value         440 V           Supply voltage         at AC / rated value         400 V           operating voltage         at AC / according to UL 489 and CSA C22.2 No.5-C         120 V           2/ maximum         60 V         60 V           cSA C / according to UL 489 and CSA C22.2 No.5-C         120 V           2/ according to UL 489 and CSA C22.2 No.5-C         120 V           supply voltage frequency / rated value         50 Hz	Model		
design of the product     Miniature circuit-breaker 5SJ4       General technical data     1       number of poles     1       tripping characteristic class     D       mechanical service life (switching cycles) / typical     10 000       installation environment regarding EMC     Suitable for environment B (immunity to interference not applicable)       reference code / according to DIN 40719 extended     F       according to IEC 204-27 according to IEC 750     3       overvoltage category     3       degree of pollution     3       Voltage     AC/DC       insulation voltage (U) / at AC / rated value     440 V       Supply voltage / at AC / rated value     440 V       Supply voltage / at AC / rated value     400 V       operating voltage     120 V       e at AC / according to UL 489 and CSA C22.2 No. 5-     120 V       02 / maximum     60 V       e at CC / single channel / according to UL 489 and CSA C22.2 No. 5-     120 V       02 / maximum     60 V       e at CC / rated value / maximum     60 V       e at CC / rated value / maximum     60 V       e according to EC 60947-2 / rated value     50 Hz       Protection class IP     IP20, with connected conductors, IP 40 in the handle range       Switching capacity     switching capacity       switching capacity current<	product brand name	SENTRON	
General technical data       1         Imper of poles       3         Voltage       4         Voltage / of the operating voltage       AC/DC         Insulation voltage / of the operating voltage       AC/DC         Isupply voltage / at AC / rated value       400 V         Operating voltage       at AC / according to UL 489 and CSA C22.2 No. 5-0 / according to UL 489 and CSA C22.2 No. 5-0 / according to UL 4	product designation	Miniature circuit breakers	
number of poles         1           tripping characteristic class         D           mechanical service life (switching cycles) / typical         0 000           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         S           overvoitage category         3           degree of pollution         3           Voltage         AC/DC           insulation voltage (UI) / at AC / rated value         440 V           Supply voltage / of the operating voltage insulation voltage (UI) / at AC / rated value         400 V           Supply voltage / at AC / rated value         400 V           operating voltage / according to UL 489 and CSA C22.2 No. 5- 02 / maximum         120 V           e at DC / single channel / according to UL 489 and CSA C22.2 No. 5- 02 / maximum         60 V           e at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum         60 V           supply voltage frequency / rated value         50 Hz           Protection class IP         IP20, with connected conductors, IP 40 in the handle range           Switching capacity current         eaccording to EN 60989 / rated value           e according to EN 60989 / rated value         10 kA           eaccording to EN 60989 /	design of the product	Miniature circuit-breaker 5SJ4	
tripping characteristic class     D       mechanical service life (switching cycles) / typical     10 000       installation environment regarding EMC     Suitable for environment B (immunity to interference not applicable)       reference code / according to DIX 40719 extended according to IEC 204-2 / according to IEC 750     Suitable for environment B (immunity to interference not applicable)       overvoltage category     3       degree of pollution     3       Voltage     K/DC       insulation voltage (UI) / at AC / rated value     440 V       Supply voltage     440 V       Supply voltage     400 V       operating voltage     400 V       operating voltage     400 V       supply voltage     60 V       e at C / rated value / maximum     60 V       e at C / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum     50 Hz       Protection class IP     IP20, with connected conductors, IP 40 in the handle range       Switching capacity     switching capacity current     60 KA       e according to EN 60898 / rated value     10 KA       e according to EN 60898 / rated value     10 KA       e according to EN 60898 / rated value     10 KA       e according to EN 60898 / rated value     10 KA       e according to EN 60898 / rated value     10 KA       e according to EN 60898 / rated value     10 KA </td <td colspan="3">General technical data</td>	General technical data		
In Solution       10 000         Installation environment regarding EMC       Suitable for environment B (immunity to interference not applicable)         reference code / according to DIN 40719 extended       Suitable for environment B (immunity to interference not applicable)         reference code / according to EC 249-2 / according to EC 750       S         overvoltage category       3         degree of pollution       3         Voltage          type of voltage / of the operating voltage       AC/DC         insulation voltage (Ui) / at AC / rated value       440 V         Supply voltage       400 V         operating voltage       60 V         e at DC / rated value / maximum       60 V         e at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum       50 Hz         Protection class       IP20, with connected conductors, IP 40 in the handle range         Supply voltage frequency / rated value       50 Hz         Protection class IP       IP20, with connected conductors, IP 40 in the handle range         Switching capacity current       according to EN 60898 / rated value       10 kA     <	number of poles	1	
Installation environment regarding EMC       Suitable for environment B (immunity to interference not applicable)         reference code / according to DIN 40719 extended       F         according to EC 204-2 / according to IEC 750       3         overvoltage category       3         degree of pollution       3         Voltage       AC/DC         Insulation voltage (UI) / at AC / rated value       440 V         Supply voltage       AC/DC         insulation voltage (UI) / at AC / rated value       400 V         operating voltage       400 V         operating voltage       120 V         • at AC / according to UL 489 and CSA C22.2 No. 5-       120 V         02 / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / rated value       50 Hz         Protection class IP       IP20, with connected conductors, IP 40 in the handle range         switching capacity current       10 kA         • according to IEC 60947-2 / rated value       10 kA         Dissipation       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         Operational current       e at 30 °C / rated value       16 A	tripping characteristic class	D	
reference code / according to DIN 40719 extended according to IEC 204-2 / according to IEC 750       3         overvoltage category       3         degree of pollution       3         Votage       AC/DC         insulation voltage (Ui) / at AC / rated value       440 V         Supply voltage       AC/DC         insulation voltage (Ui) / at AC / rated value       440 V         Supply voltage       according to UL 489 and CSA C22.2 No. 5-         02 / maximum       60 V         • at AC / cated value / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / rated value       50 Hz         Protection class       IP20, with connected conductors, IP 40 in the handle range         switching capacity current       10 kA         • according to IEC 60947-2 / rated value       15 kA         Dissipation       2.1 W         operating state / per pole       2.1 W         operating state / per pole       16 A	mechanical service life (switching cycles) / typical	10 000	
according to IEC 204-2 / according to IEC 750         overvoltage category       3         degree of pollution       3         Voltage       AC/DC         insulation voltage (UI) / at AC / rated value       440 V         Supply voltage       400 V         operating voltage       41 AC / rated value         ota AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum       120 V         e at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum       60 V         supply voltage frequency / rated value       50 Hz         Protection class       IP20, with connected conductors, IP 40 in the handle range         Switching capacity current       10 kA         • according to EIC 60947-2 / rated value       10 kA         • according to EIC 60947-2 / rated value       15 kA         Dissipation       2.1 W         operating state / per pole       2.1 W         operating state / per pole       16 A	installation environment regarding EMC	Suitable for environment B (immunity to interference not applicable)	
degree of pollution       3         Voltage       AC/DC         insulation voltage (Ui) / at AC / rated value       440 V         Supply voltage       440 V         Supply voltage       440 V         supply voltage       440 V         operating voltage       400 V         operating voltage       60 V         csa C22.2 No. 5-02 / maximum       60 V         supply voltage frequency / rated value       50 Hz         Protection class       P         protection class IP       IP20, with connected conductors, IP 40 in the handle range         Switching capacity current       0 kA         • according to EN 60898 / rated value       10 kA         • according to IEC 60947-2 / rated value       15 kA <td></td> <td>F</td>		F	
Voltage       Voltage         type of voltage / of the operating voltage       AC/DC         insulation voltage (Ui) / at AC / rated value       440 V         Supply voltage       440 V         supply voltage       400 V         operating voltage       400 V         • at AC / according to UL 489 and CSA C22.2 No. 5-       120 V         02 / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-       120 V         02 / maximum       60 V         • at DC / single channel / according to UL 489 and CSA C22.2 No. 5-       60 V         supply voltage frequency / rated value       50 Hz         Protection class       Protection class IP         growtching capacity       IP20, with connected conductors, IP 40 in the handle range         Switching capacity current       10 kA         • according to EN 60898 / rated value       10 kA         • according to EC 69947-2 / rated value       15 kA         Dissipation       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         operational current       61 A         • at 30 °C / ra	overvoltage category	3	
type of voltage / of the operating voltage         AC/DC           insulation voltage (Ui) / at AC / rated value         440 V           Supply voltage         440 V           supply voltage         400 V           operating voltage         400 V           • at AC / rated value         400 V           operating voltage         400 V           • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum         120 V           • at DC / rated value / maximum         60 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           supply voltage frequency / rated value         50 Hz           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         2.1 W           power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         2.1 W           operational current         16 A           • at 30 °C / rated value         16 A	degree of pollution	3	
insulation voltage (Ui) / at AC / rated value       440 V         Supply voltage       supply voltage         supply voltage / at AC / rated value       400 V         operating voltage       400 V         • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum       120 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         supply voltage frequency / rated value       50 Hz         Protection class       IP20, with connected conductors, IP 40 in the handle range         Switching capacity current       10 kA         • according to EN 60898 / rated value       10 kA         • according to EC 60947-2 / rated value       15 kA         Dissipation       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         operational current       16 A         • at 40 °C / rated value       16 A	Voltage		
Supply voltage       400 V         operating voltage       400 V         operating voltage       400 V         operating voltage       120 V         • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum       120 V         • at DC / rated value / maximum       60 V         • at DC / rated value / maximum       60 V         • at DC / rated value / maximum       60 V         supply voltage frequency / rated value       50 Hz         Protection class       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 EC 60947-2 / rated value       15 kA         Dissipation       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         operational current       16 A         • at 30 °C / rated value       16 A	type of voltage / of the operating voltage	AC/DC	
supply voltage / at AC / rated value       400 V         operating voltage       410 V         operating voltage       120 V         • at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum       120 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         supply voltage frequency / rated value       50 Hz         Protection class       1P20, with connected conductors, IP 40 in the handle range         switching capacity       10 kA         • according to EN 60898 / rated value       10 kA         • according to IEC 60947-2 / rated value       15 kA         Dissipation       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         current       at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A	insulation voltage (Ui) / at AC / rated value	440 V	
operating voltage <ul> <li>at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum</li> <li>at DC / rated value / maximum</li> <li>at DC / rated value / maximum</li> <li>60 V</li> <li>at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum</li> <li>supply voltage frequency / rated value</li> <li>50 Hz</li> </ul> <li>Protection class         <ul> <li>protection class IP</li> <li>IP20, with connected conductors, IP 40 in the handle range</li> <li>Switching capacity current</li></ul></li>	Supply voltage		
• at AC / according to UL 489 and CSA C22.2 No. 5- 02 / maximum         120 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           supply voltage frequency / rated value         50 Hz           Protection class         Frotection class IP           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         2.1 W           cover loss [W] / for rated value of the current / at AC / in hot operating state / per pole         2.1 W           current         at 30 °C / rated value         16 A           • at 40 °C / rated value         16 A	supply voltage / at AC / rated value	400 V	
02 / maximum       60 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         supply voltage frequency / rated value       50 Hz         Protection class       protection class IP         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       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         current       at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A	operating voltage		
• at DC / single channel / according to UL 489 and CSA C22.2 No. 5-02 / maximum       60 V         supply voltage frequency / rated value       50 Hz         Protection class       protection class IP         protecting capacity       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       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         Operational current       16 A         • at 40 °C / rated value       16 A		120 V	
CSA C22.2 No. 5-02 / maximum       50 Hz         supply voltage frequency / rated value       50 Hz         Protection class       IP20, with connected conductors, IP 40 in the handle range         Switching capacity       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       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         Operational current       16 A         • at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A	<ul> <li>at DC / rated value / maximum</li> </ul>	60 V	
Protection class       IP20, with connected conductors, IP 40 in the handle range         Switching capacity       IP20, with connected conductors, IP 40 in the handle range         Switching capacity current       • according to EN 60898 / rated value         • 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         Current       • at 30 °C / rated value         • at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A		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       10 kA         • according to IEC 60947-2 / rated value       10 kA         • according to IEC 60947-2 / rated value       15 kA         Dissipation       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         Operational current       • at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A       16 A	supply voltage frequency / rated value	50 Hz	
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       2.1 W         Current       operational current         • at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A	Protection class		
switching capacity current       according to EN 60898 / rated value       10 kA         • according to IEC 60947-2 / rated value       15 kA         Dissipation       2.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         Current       operational current         • at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A	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>10 kA</li> <li>according to IEC 60947-2 / rated value</li> <li>15 kA</li> </ul> Dissipation           power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         2.1 W             Current         2.1 W             operational current         410 °C / rated value           • at 40 °C / rated value         16 A	Switching capacity		
e 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     operational current     e at 30 °C / rated value     16 A     e at 40 °C / rated value	switching capacity current		
Dissipation         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       2.1 W         Current       0         operational current • at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A	<ul> <li>according to EN 60898 / rated value</li> </ul>	10 kA	
power loss [W] / for rated value of the current / at AC / in       2.1 W         hot operating state / per pole       2.1 W         Current       operational current         • at 30 °C / rated value       16 A         • at 40 °C / rated value       16 A	<ul> <li>according to IEC 60947-2 / rated value</li> </ul>	15 kA	
hot operating state / per pole          Current         operational current         • at 30 °C / rated value         16 A         • at 40 °C / rated value	Dissipation		
operational current     16 A       • at 40 °C / rated value     16 A		2.1 W	
• at 30 °C / rated value     16 A     16 A	Current		
• at 40 °C / rated value 16 A	operational current		
	• at 30 °C / rated value	16 A	
• at 45 °C / rated value 15.5 A	• at 40 °C / rated value	16 A	
	• at 45 °C / rated value	15.5 A	

• at 50 °C / rated value	15 A
• at 55 °C / rated value	14.5 A
• at 60 °C / rated value	14.1 A
at AC / rated value	16 A
Main circuit	
type of voltage supply / at AC / according to UL 489 and CSA C22.2 No. 5-02	240/120
suitability for operation	Mechanical engineering / industry
Product details	
product component / neutral conductor switching	No
product feature / touch protection	Yes
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
combined terminal bottom	Yes
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	
breaking capacity short-circuit current (Icn) / at AC / according to UL 1077 and CSA C22.2 No.235	14 kA
Connections	
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm <sup>2</sup>
• maximum	25 mm²
tightening torque / with screw-type terminals / maximum	3.5 N·m
position / of power supply cord	Any
Mechanical Design	
height	90 mm
width	18 mm
depth	- 70 mm
installation depth	70 mm
number of modular width units	1
fastening method	on standard mounting rail
mounting position	any
net weight	163 g
Environmental conditions	
vibration resistance	50 m/s <sup>2</sup> at 25 to 150Hz and 60m/s <sup>2</sup> at 35Hz (4sec)
ambient temperature / during operation	
• minimum	55 °C
• maximum	-25 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C
Certificates	
reference code	
according to EN 61346-2	F
according to IEC 81346-2	F
General Product Approval	Declaration of Conformity

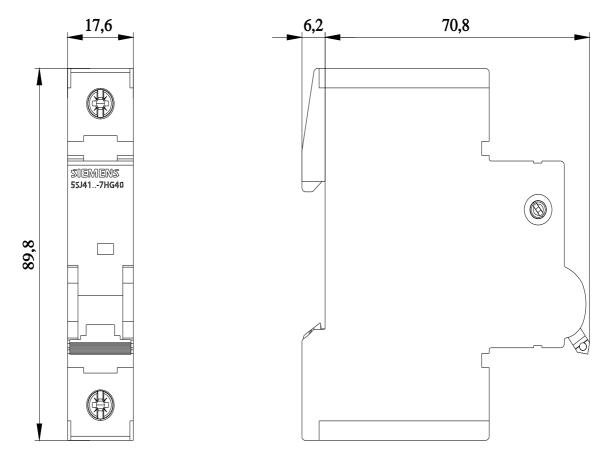


Further information

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EG-Konf.