

SIEMENS

Product Profile:

5SJ4...-.HG4. Miniature Circuit Breakers for North American and International Applications according to UL, CSA and IEC



Table of Contents

| | Page |
|---|------|
| Certifications, Standards & Features | 2 |
| Description | 3 |
| Tripping Characteristics | 4 |
| Current Ratings at Ambient Temperatures Other than 40°C | 5 |
| Power Loss | 6 |
| Catalog Number Nomenclature | 7 |
| Product Selection – 5SJ41...-.HG40 | 8 |
| Product Selection – 5SJ4...-.HG41 | 9 |
| Product Selection – 5SJ4...-.HG42 | 10 |
| Typical Device Markings | 11 |
| Accessories | 13 |
| Specifications | 14 |
| Dimensions | 15 |

SIEMENS

Certifications and Standards

- UL Listed, Certified to Canadian Standards, CE
- UL 489
- CSA 22.2 No. 5-02
- HACR
- IEC 60 898

Features – UL 489

- Suitable for Branch Circuit Protection Applications
 - **-.HG40:** up to 240 VAC, and 60 VDC (1-pole);
 - **-.HG41:** up to 240 VAC, and 60 VDC (1-pole); and, up to 240 VAC, and 125 VDC (2- and 3-pole)
 - **-.HG42:** up to 277 VAC, and 60 VDC (1-pole); and, up to 480Y/277 VAC and 125 VDC (2- and 3-pole).
- cULus: UL Listed and Certified to Canadian Standards. File E243414
- HACR Rated
- Thermal Magnetic Protection
- High Interrupting Rating:
 - VAC: up to 14,000 (Type HSJ) or 10,000 (Type NSJ) Maximum RMS Symmetrical Amps
 - VDC: up to 10,000 Amps (Type HSJ and Type NSJ) at 60/125 VDC
- 40°C (104°F) Calibration Base (Industrial Applications)
- Can be used for “field wiring” applications, AWG 14 to AWG 4, Copper (Cu) Only
- **-.HG40:** suitable for “Same Polarity” connections only. Not suitable for “Reverse Feed” Applications
- **-.HG41 & -.HG42:** suitable for “Reverse Feed” Applications. No “Same Polarity” restrictions.

5SJ4 miniature circuit breakers are also CE marked according to EN/IEC 60 898 making them suitable for use in International applications.

Features – EN/IEC 60 898

- CE Marked
- 30°C (86°F) Calibration Base
- Meets Trip Characteristics
 - **-.HG40:** B, C and D
 - **-.HG41 & -.HG42:** C and D
- Rated Voltage
 - VAC/DC: 24 minimum
 - VDC/pole: 60 maximum
 - VAC: 440 maximum
- High Interrupting Rating (I_{cn}) acc. to IEC 60898-1 of up to 10,000 A AC

SIEMENS

Features – Common

- Available with
 - **-.HG40**: 1-pole
 - **-.HG41 & -.HG42**: 1-, 2- or 3-poles
- Available from
 - **-.HG40 & -.HG41**: 0.3 to 63 Amps depending on the device selected
 - **-.HG42**: 0.3 to 40 A (C Characteristic); 0.3 to 32A (D Characteristic)
- Visible Indicator for ON and OFF/Trip
- Finger-Safe Design
- DIN Rail Mounting (35 mm)
- Identical Wire Screw Connections on Line and Load Sides
- CFC and Silicone Free

Description

5SJ4...-HG4. Miniature Circuit Breakers (mCB) are 1-, 2- and 3-pole thermal / magnetic overcurrent protection devices that are intended for general industrial use such as Branch Circuit Protection. They are UL Listed (File No. E243414, Volume 1, Section 1) in accordance with UL 489, 10th edition, “Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures” and Certified to Canadian Standards (CSA 22.2 No. 5.02). They are provided with a manual means for opening the circuit and they are not ambient compensated.

5SJ4...-HG4. Miniature Circuit Breakers are rated

- **-.HG40**: 240 VAC max. and 60 VDC max. for 1-pole devices
- **-.HG41**: 240 VAC max. and 60 VDC max. for 1-pole devices; 240 VAC max. and 125 VDC max. for 2- and 3-pole devices.
- **-.HG42**: 277 VAC max. and 60 VDC max. for 1-pole devices; 480Y/277 VAC max. and 125 VDC max. for 2- and 3-pole devices.
- The load current ranges form 0.3 to 63 A depending on the device selected with interrupting ratings stated in the following table for 1-, 2- and 3-pole devices.

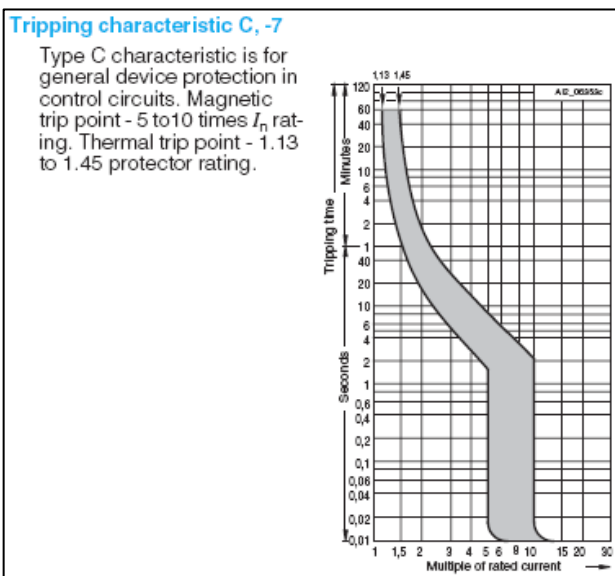
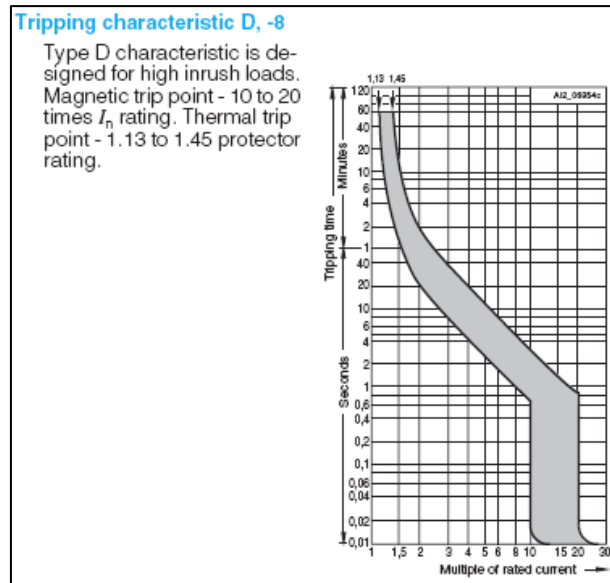
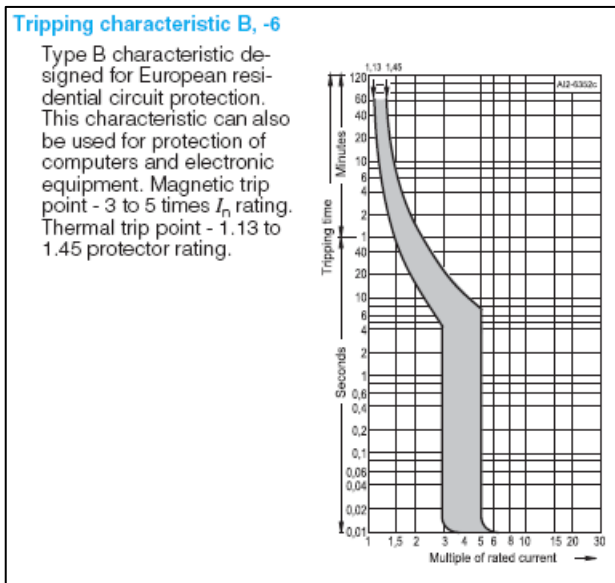
| Designation | Characteristic | Current A | Rated switching capacity (operational voltage 240 V AC) kA AC | Rated switching capacity (operational voltage 480Y/277 V AC) kA AC |
|---------------|----------------|--------------|---|--|
| 5SJ4 ...-HG40 | B | 6 ... 63 | 14 | -- |
| | C | 0.3 ... 40 | 14 | -- |
| | C | 45 ... 63 | 10 | -- |
| | D | 0.3 ... 20 | 14 | -- |
| | D | 25 ... 63 | 10 | -- |
| 5SJ4 ...-HG41 | C | 0.3 ... 40 | 14 | -- |
| | C | 45 ... 63 | 10 | -- |
| | D | 0.3 ... 20 | 14 | -- |
| | D | 25 ... 63 | 10 | -- |
| 5SJ4 ...-HG42 | C | 0.3 ... 40 | 14 | 10 |
| | D | 0.3 ... 20 | 14 | 10 |
| | D | 25 ... 32 | 10 | 10 |

SIEMENS

Type descriptions are:

- **Type HSJ:** VAC: 14,000 Maximum RMS Symmetrical Amps
VDC: 10,000 Amps
- **Type NSJ:** VAC: 10,000 Maximum RMS Symmetrical Amps
VDC: 10,000 Amps

Tripping Characteristics according to EN 60 898 are defined as follows.



SIEMENS

Current Ratings at Ambient Temperatures Other than 40°C

Use the following table to determine the mCBs I_n current rating for ambient temperatures other than 40°C.

| Device Marked Current Rating in (A) @ 40C | I_n (A) at different Ambient Temperatures | | | | | | |
|---|---|------|------|------|------|------|------|
| | 15°C | 20°C | 25°C | 30°C | 40°C | 50°C | 55°C |
| 0.3 | 0.33 | 0.32 | 0.32 | 0.31 | 0.30 | 0.29 | 0.28 |
| 0.5 | 0.55 | 0.54 | 0.53 | 0.52 | 0.50 | 0.48 | 0.47 |
| 1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 |
| 1.6 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 |
| 2 | 2.2 | 2.2 | 2.1 | 2.1 | 2.0 | 1.9 | 1.9 |
| 3 | 3.3 | 3.3 | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 |
| 4 | 4.6 | 4.4 | 4.3 | 4.2 | 4.0 | 3.8 | 3.6 |
| 5 | 5.7 | 5.6 | 5.4 | 5.3 | 5.0 | 4.7 | 4.5 |
| 6 | 6.8 | 6.7 | 6.5 | 6.3 | 6.0 | 5.6 | 5.4 |
| 8 | 9.1 | 8.9 | 8.7 | 8.5 | 8.0 | 7.5 | 7.3 |
| 10 | 11.1 | 10.9 | 10.7 | 10.5 | 10.0 | 9.5 | 9.3 |
| 13 | 14.5 | 14.2 | 13.9 | 13.6 | 13.0 | 12.4 | 12.0 |
| 15 | 16.7 | 16.4 | 16.0 | 15.7 | 15.0 | 14.3 | 13.9 |
| 16 | 17.8 | 17.5 | 17.1 | 16.7 | 16.0 | 15.2 | 14.8 |
| 20 | 22.3 | 21.8 | 21.4 | 20.9 | 20.0 | 19.0 | 18.5 |
| 25 | 27.8 | 27.3 | 26.7 | 26.2 | 25.0 | 23.8 | 23.1 |
| 30 | 33.4 | 32.7 | 32.1 | 31.4 | 30.0 | 28.5 | 27.8 |
| 32 | 35.6 | 34.9 | 34.2 | 33.5 | 32.0 | 30.4 | 29.6 |
| 35 | 39.9 | 38.2 | 37.4 | 36.6 | 35.0 | 33.3 | 32.4 |
| 40 | 44.5 | 43.6 | 42.8 | 41.9 | 40.0 | 38.0 | 37.0 |
| 45 | 51.2 | 50.0 | 48.8 | 47.6 | 45.0 | 42.3 | 40.8 |
| 50 | 56.9 | 55.6 | 54.2 | 52.9 | 50.0 | 47.0 | 45.4 |
| 60 | 66.8 | 65.5 | 64.1 | 62.8 | 0.6 | 57.1 | 55.5 |
| 63 | 71.7 | 70.0 | 68.3 | 66.6 | 63.0 | 59.2 | 57.2 |

5SJ4 miniature circuit breakers are “Non 100 percent rated” as specified in UL 489, paragraph 7.1.4.2. When selecting a miniature circuit breaker for continuous loads no more than 80% of the device’s marked current should be used.

Power Loss

| Rated current I_n A | Characteristic B | | Characteristic C | | Characteristic D | |
|-----------------------------|------------------|------------|------------------|------------|------------------|------------|
| | R_i mΩ | P_v W | R_i mΩ | P_v W | R_i mΩ | P_v W |
| 0.3 | -- | -- | 12900 | 1.2 | 12600 | 1.1 |
| 0.5 | -- | -- | 4900 | 1.2 | 4600 | 1.2 |
| 1 | -- | -- | 1650 | 1.7 | 1480 | 1.5 |
| 1.6 | -- | -- | 620 | 1.6 | 570 | 1.5 |
| 2 | -- | -- | 440 | 1.8 | 435 | 1.8 |
| 3 | -- | -- | 197 | 1.8 | 190 | 1.7 |
| 4 | -- | -- | 115 | 1.8 | 100 | 1.6 |
| 5 | -- | -- | 115 | 2.9 | 100 | 2.5 |
| 6 | 85 | 3.1 | 74 | 2.7 | 73 | 2.6 |
| 8 | -- | -- | 40 | 2.6 | 39 | 2.5 |
| 10 | 16.5 | 1.7 | 13.5 | 1.4 | 11.9 | 1.2 |
| 13 | 11.7 | 2.0 | 10.2 | 1.7 | 10.2 | 1.7 |
| 15 | 8.5 | 1.9 | 7.8 | 1.8 | 7.7 | 1.7 |
| 16 | 8.5 | 2.2 | 7.8 | 2.0 | 7.7 | 2.0 |
| 20 | 6.7 | 2.7 | 5.5 | 2.2 | 5.5 | 2.2 |
| 25 | 4.3 | 2.7 | 4.2 | 2.6 | 4.2 | 2.6 |
| 30 | 3.4 | 3.1 | 3.5 | 3.2 | 3.0 | 2.7 |
| 32 | 3.4 | 3.5 | 3.5 | 3.6 | 3.0 | 3.1 |
| 35 | 2.8 | 3.4 | 2.8 | 3.4 | 2.7 | 3.3 |
| 40 | 2.8 | 4.5 | 2.8 | 4.5 | 2.5 | 4.0 |
| 45 | 2.8 | 5.7 | 2.7 | 5.5 | 2.5 | 5.1 |
| 50 | 2.1 | 5.3 | 2.1 | 5.0 | 2.0 | 5.0 |
| 60 | 1.7 | 6.1 | 1.7 | 6.1 | 1.7 | 6.1 |
| 63 | 1.7 | 6.7 | 1.7 | 6.7 | 1.7 | 6.7 |

SIEMENS

Catalog Number Nomenclature

5SJ4 1 10 – 7 HG41
 a b c d e

| | | |
|----------|--------------------|--------------------|
| a | Frame Style | |
| | Code | Description |
| | 5SJ4 | Standard Frame |

| | | |
|----------|--------------|--------------------|
| b | Poles | |
| | Code | Description |
| | 1 | 1-Pole |
| | 2 | 2-Pole |
| | 3 | 3-Pole |

| | | |
|----------|----------------------|---|
| c | Rated Current | |
| | Code | Rated Current (I_n) |
| | 14 | 0.3 |
| | 05 | 0.5 |
| | 01 | 1 |
| | 15 | 1.6 |
| | 02 | 2 |
| | 03 | 3 |
| | 04 | 4 |
| | 11 | 5 |
| | 06 | 6 |
| | 08 | 8 |
| | 10 | 10 |
| | 13 | 13 |
| | 18 | 15 |
| | 16 | 16 |
| | 20 | 20 |
| | 25 | 25 |
| | 30 | 30 |
| | 32 | 32 |
| | 35 | 35 |
| 40 | 40 | |
| 45 | 45 | |
| 50 | 50 | |
| 60 | 60 | |
| 63 | 63 | |

| | | | | |
|----------|------------------------------------|-------------------|----------------------------|--------------------------------|
| d | Trip Curve (Characteristic) | | | |
| | Code | Trip Curve | Magnetic Trip Point | Thermal Trip Point |
| | 6 | B | 3 to 5 I_n | 1.13 to 1.45 Breaker Rating |
| | 7 | C | 5 to 10 I_n | |
| 8 | D | 10 to 20 I_n | | |

| | | |
|----------|----------------|------------------------|
| e | Version | |
| | Code | Description |
| | HG40 | 240 VAC Same Polarity |
| | HG41 | 240 VAC Opposite phase |
| | HG42 | 480Y/277 VAC |

SIEMENS

Product Selection – 5SJ41...HG40



Type HSJ: Interrupting rating:
 240 VAC: 14,000 Maximum RMS Symmetrical Amps
 60 VDC: 10,000 Amps

Type NSJ: Interrupting rating:
 240 VAC: 10,000 Maximum RMS Symmetrical Amps
 60 VDC (1-pole) / 125 VDC (2- & 3-pole): 10,000 Amps

| TYPE → | | HSJ | HSJ | NSJ | HSJ | NSJ |
|--------------|-----------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| No. of Poles | I_n (A) | Characteristic B Order No. | Characteristic C Order No. | Characteristic C Order No. | Characteristic D Order No. | Characteristic D Order No. |
| 1 | 0.3 | --- | 5SJ4114-7HG40 | | 5SJ4114-8HG40 | |
| 1 | 0.5 | --- | 5SJ4105-7HG40 | | 5SJ4105-8HG40 | |
| 1 | 1 | --- | 5SJ4101-7HG40 | | 5SJ4101-8HG40 | |
| 1 | 1.6 | --- | 5SJ4115-7HG40 | | 5SJ4115-8HG40 | |
| 1 | 2 | --- | 5SJ4102-7HG40 | | 5SJ4102-8HG40 | |
| 1 | 3 | --- | 5SJ4103-7HG40 | | 5SJ4103-8HG40 | |
| 1 | 4 | --- | 5SJ4104-7HG40 | | 5SJ4104-8HG40 | |
| 1 | 5 | --- | 5SJ4111-7HG40 | | 5SJ4111-8HG40 | |
| 1 | 6 | 5SJ4106-6HG40 | 5SJ4106-7HG40 | | 5SJ4106-8HG40 | |
| 1 | 8 | --- | 5SJ4108-7HG40 | | 5SJ4108-8HG40 | |
| 1 | 10 | 5SJ4110-6HG40 | 5SJ4110-7HG40 | | 5SJ4110-8HG40 | |
| 1 | 13 | 5SJ4113-6HG40 | 5SJ4113-7HG40 | | 5SJ4113-8HG40 | |
| 1 | 15 | 5SJ4118-6HG40 | 5SJ4118-7HG40 | | 5SJ4118-8HG40 | |
| 1 | 16 | 5SJ4116-6HG40 | 5SJ4116-7HG40 | | 5SJ4116-8HG40 | |
| 1 | 20 | 5SJ4120-6HG40 | 5SJ4120-7HG40 | | 5SJ4120-8HG40 | |
| 1 | 25 | 5SJ4125-6HG40 | 5SJ4125-7HG40 | | | 5SJ4125-8HG40 |
| 1 | 30 | 5SJ4130-6HG40 | 5SJ4130-7HG40 | | | 5SJ4130-8HG40 |
| 1 | 32 | 5SJ4132-6HG40 | 5SJ4132-7HG40 | | | 5SJ4132-8HG40 |
| 1 | 35 | 5SJ4135-6HG40 | 5SJ4135-7HG40 | | | 5SJ4135-8HG40 |
| 1 | 40 | 5SJ4140-6HG40 | 5SJ4140-7HG40 | | | 5SJ4140-8HG40 |
| 1 | 45 | 5SJ4145-6HG40 | | 5SJ4145-7HG40 | | 5SJ4145-8HG40 |
| 1 | 50 | 5SJ4150-6HG40 | | 5SJ4150-7HG40 | | 5SJ4150-8HG40 |
| 1 | 60 | 5SJ4160-6HG40 | | 5SJ4160-7HG40 | | 5SJ4160-8HG40 |
| 1 | 63 | 5SJ4163-6HG40 | | 5SJ4163-7HG40 | | 5SJ4163-8HG40 |

SIEMENS

Product Selection – 5SJ4...-HG41



Type HSJ: Interrupting rating:

240 VAC: 14 kA Maximum RMS Symmetrical
60 VDC (1-pole) / 125 VDC (2- & 3-pole): 10kA

Type NSJ: Interrupting rating:

240 VAC: 10kA Maximum RMS Symmetrical
60 VDC (1-pole)/125 VDC (2- & 3-pole): 10 kA

| TYPE → | | HSJ | NSJ | HSJ | NSJ |
|--------------|-----------|----------------------------|----------------------------|----------------------------|----------------------------|
| No. of Poles | I_n (A) | Characteristic C Order No. | Characteristic C Order No. | Characteristic D Order No. | Characteristic D Order No. |
| * | 0.3 | 5SJ4*14-7HG41 | | 5SJ4*14-8HG41 | |
| * | 0.5 | 5SJ4*05-7HG41 | | 5SJ4*05-8HG41 | |
| * | 1 | 5SJ4*01-7HG41 | | 5SJ4*01-8HG41 | |
| * | 1.6 | 5SJ4*15-7HG41 | | 5SJ4*15-8HG41 | |
| * | 2 | 5SJ4*02-7HG41 | | 5SJ4*02-8HG41 | |
| * | 3 | 5SJ4*03-7HG41 | | 5SJ4*03-8HG41 | |
| * | 4 | 5SJ4*04-7HG41 | | 5SJ4*04-8HG41 | |
| * | 5 | 5SJ4*11-7HG41 | | 5SJ4*11-8HG41 | |
| * | 6 | 5SJ4*06-7HG41 | | 5SJ4*06-8HG41 | |
| * | 8 | 5SJ4*08-7HG41 | | 5SJ4*08-8HG41 | |
| * | 10 | 5SJ4*10-7HG41 | | 5SJ4*10-8HG41 | |
| * | 13 | 5SJ4*13-7HG41 | | 5SJ4*13-8HG41 | |
| * | 15 | 5SJ4*18-7HG41 | | 5SJ4*18-8HG41 | |
| * | 16 | 5SJ4*16-7HG41 | | 5SJ4*16-8HG41 | |
| * | 20 | 5SJ4*20-7HG41 | | 5SJ4*20-8HG41 | |
| * | 25 | 5SJ4*25-7HG41 | | | 5SJ4*25-8HG41 |
| * | 30 | 5SJ4*30-7HG41 | | | 5SJ4*30-8HG41 |
| * | 32 | 5SJ4*32-7HG41 | | | 5SJ4*32-8HG41 |
| * | 35 | 5SJ4*35-7HG41 | | | 5SJ4*35-8HG41 |
| * | 40 | 5SJ4*40-7HG41 | | | 5SJ4*40-8HG41 |
| * | 45 | | 5SJ4*45-7HG41 | | 5SJ4*45-8HG41 |
| * | 50 | | 5SJ4*50-7HG41 | | 5SJ4*50-8HG41 |
| * | 60 | | 5SJ4*60-7HG41 | | 5SJ4*60-8HG41 |
| * | 63 | | 5SJ4*63-7HG41 | | 5SJ4*63-8HG41 |

1 Substitute the "*" with:

- 1 for 1-pole mCBs
- 2 for 2-pole mCBs
- 3 for 3-pole mCBs

SIEMENS

Product Selection – 5SJ4...-HG42



Type NSJ: Interrupting rating:

- 480Y/277 VAC 10,000 Maximum RMS Symmetrical Amps
- 60 VDC (1-pole) / 125 VDC (2- & 3-pole) 10,000 Amps

| TYPE → | | HSJ | NSJ | HSJ | NSJ |
|--------------|-----------|----------------------------|----------------------------|----------------------------|----------------------------|
| No. of Poles | I_n (A) | Characteristic C Order No. | Characteristic C Order No. | Characteristic D Order No. | Characteristic D Order No. |
| * | 0.3 | --- | 5SJ4*14-7HG42 | --- | 5SJ4*14-8HG42 |
| * | 0.5 | --- | 5SJ4*05-7HG42 | --- | 5SJ4*05-8HG42 |
| * | 1 | --- | 5SJ4*01-7HG42 | --- | 5SJ4*01-8HG42 |
| * | 1.6 | --- | 5SJ4*15-7HG42 | --- | 5SJ4*15-8HG42 |
| * | 2 | --- | 5SJ4*02-7HG42 | --- | 5SJ4*02-8HG42 |
| * | 3 | --- | 5SJ4*03-7HG42 | --- | 5SJ4*03-8HG42 |
| * | 4 | --- | 5SJ4*04-7HG42 | --- | 5SJ4*04-8HG42 |
| * | 5 | --- | 5SJ4*11-7HG42 | --- | 5SJ4*11-8HG42 |
| * | 6 | --- | 5SJ4*06-7HG42 | --- | 5SJ4*06-8HG42 |
| * | 8 | --- | 5SJ4*08-7HG42 | --- | 5SJ4*08-8HG42 |
| * | 10 | --- | 5SJ4*10-7HG42 | --- | 5SJ4*10-8HG42 |
| * | 13 | --- | 5SJ4*13-7HG42 | --- | 5SJ4*13-8HG42 |
| * | 15 | --- | 5SJ4*18-7HG42 | --- | 5SJ4*18-8HG42 |
| * | 16 | --- | 5SJ4*16-7HG42 | --- | 5SJ4*16-8HG42 |
| * | 20 | --- | 5SJ4*20-7HG42 | --- | 5SJ4*20-8HG42 |
| * | 25 | --- | 5SJ4*25-7HG42 | --- | 5SJ4*25-8HG42 |
| * | 30 | --- | 5SJ4*30-7HG42 | --- | 5SJ4*30-8HG42 |
| * | 32 | --- | 5SJ4*32-7HG42 | --- | 5SJ4*32-8HG42 |
| * | 35 | --- | 5SJ4*35-7HG42 | --- | --- |
| * | 40 | --- | 5SJ4*40-7HG42 | --- | --- |
| * | 45 | --- | --- | --- | --- |
| * | 50 | --- | --- | --- | --- |
| * | 60 | --- | --- | --- | --- |
| * | 63 | --- | --- | --- | --- |

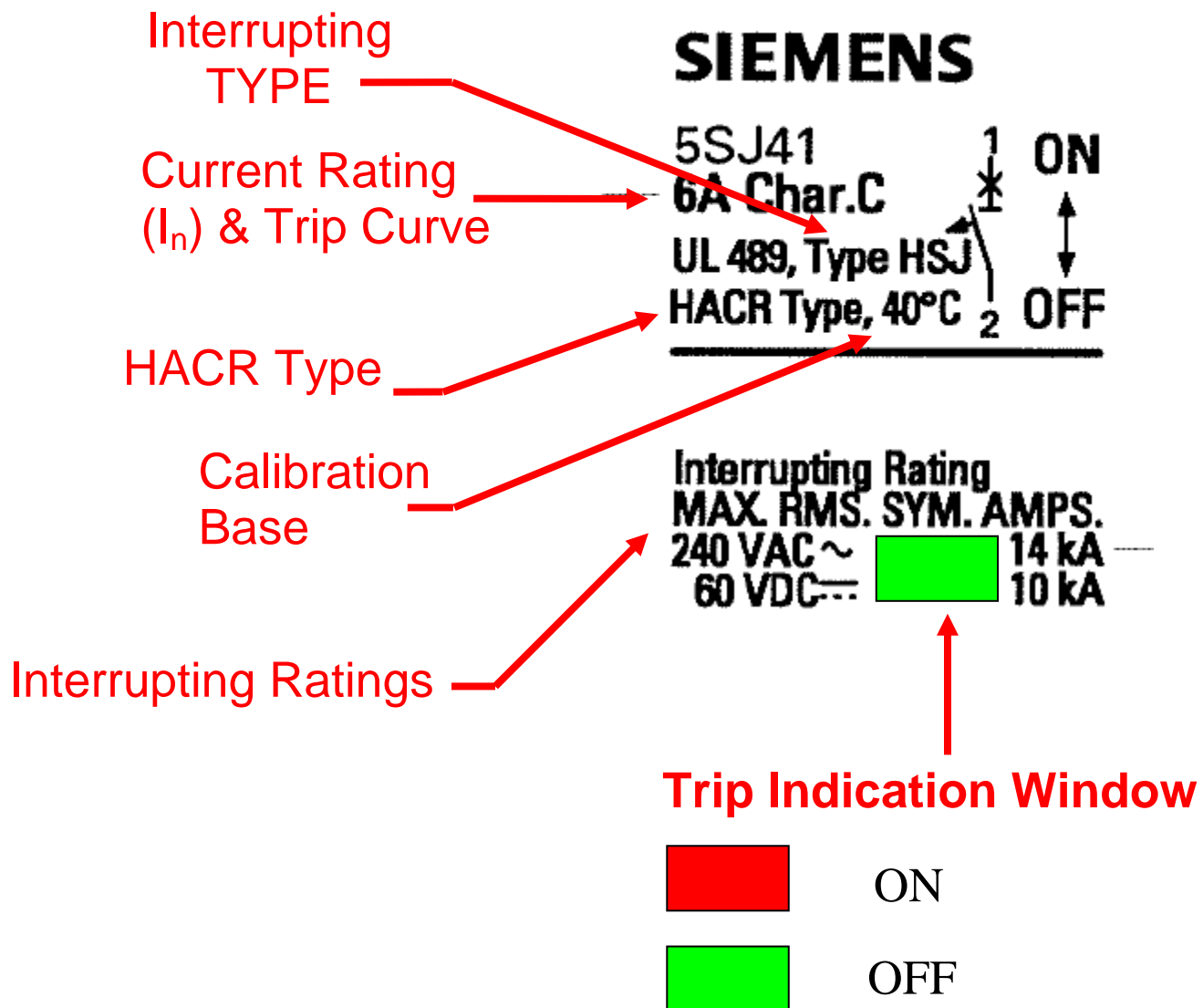
1 Substitute the "*" with:

- 1 for 1-pole mCBs
- 2 for 2-pole mCBs
- 3 for 3-pole mCBs

SIEMENS

Typical Device Markings

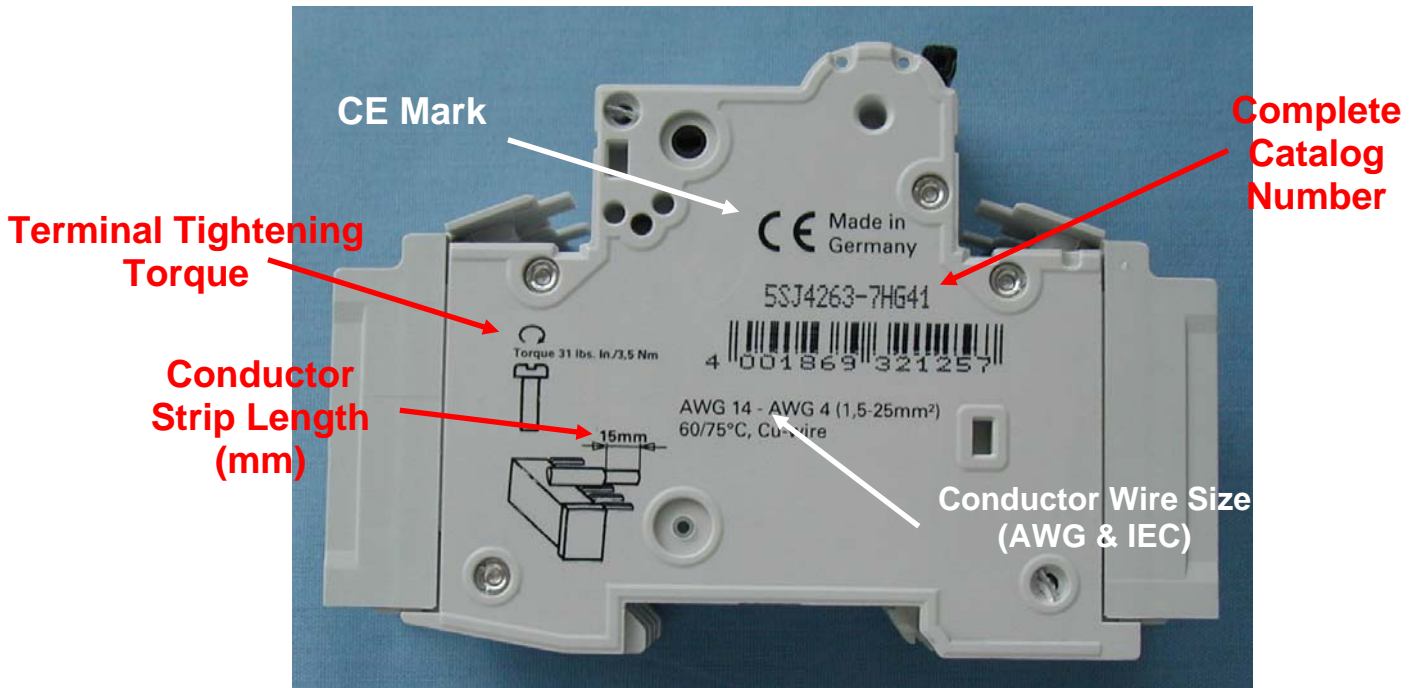
Front Markings



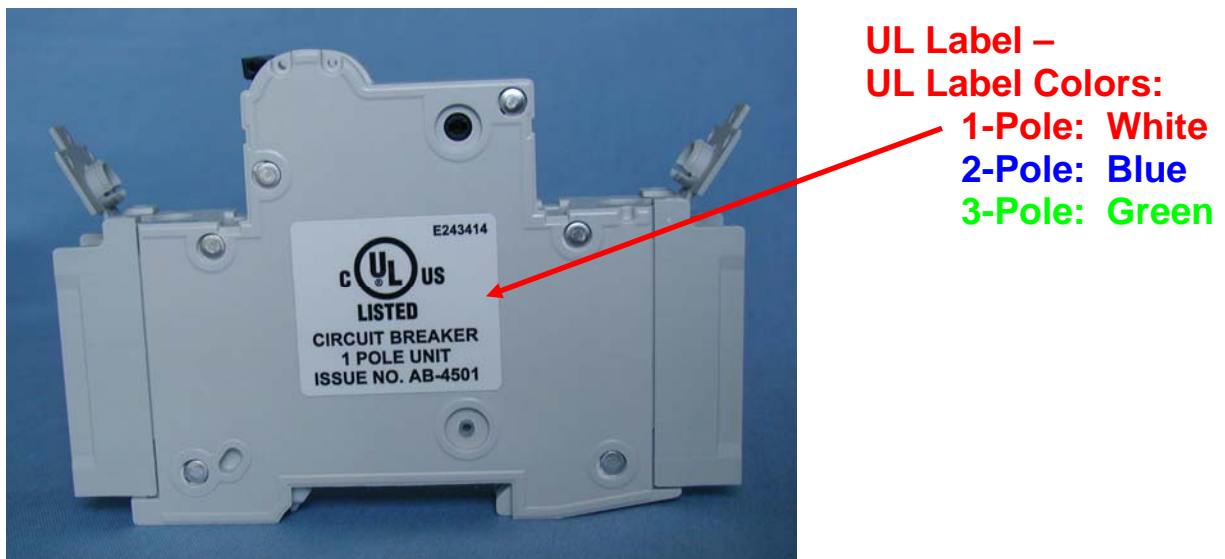
SIEMENS

Typical Device Markings (Continued)

Left Side Markings



Right Side Markings



SIEMENS

Accessories

| | Pin spacing | Length | DT | Order No. |
|--|-------------|--------|----|--------------|
| | MW | mm | | |
| Busbars acc. to UL 489 for use with 5SJ4...-HG.. fixed lengths, cannot be cut ¹⁾ | | | | |
| Single-Pole For 6 MCB 1P | | | | |
| | 1 | 100 | A | 5ST3 663-0HG |
| For 12 MCB 1P | | | | |
| | 1 | 205 | A | 5ST3 663-1HG |
| For 18 MCB 1P | | | | |
| | 1 | 310 | A | 5ST3 663-2HG |
|  | | | | |
| Two-Pole For 3 MCB 2P | | | | |
| | 1 | 100 | A | 5ST3 664-0HG |
| For 6 MCB 2P | | | | |
| | 1 | 205 | A | 5ST3 664-1HG |
| For 9 MCB 2P | | | | |
| | 1 | 310 | A | 5ST3 664-2HG |
| Three-Pole For 2 MCBs 3P | | | | |
| | 1 | 100 | A | 5ST3 665-0HG |
| For 4 MCBs 3P | | | | |
| | 1 | 205 | A | 5ST3 665-1HG |
| For 6 MCBs 3P | | | | |
| | 1 | 310 | A | 5ST3 665-2HG |
| Connection terminals acc. to UL489 for use only with 5SJ4...-HG.. | | | | |
| Infeed - MCBs 35 mm ² | | | | |
| | | | A | 5ST3 666-0HG |
| Infeed - busbars 50 mm ² | | | | |
| | | | A | 5ST3 666-2HG |
| Touch protection covers for busbars acc. to UL489 ⁽¹⁾ 3 x 1 pin | | | | |
| | | | A | 5ST3 666-1HG |

¹⁾ To maintain UL Listing, ALL unused busbar terminals must be covered

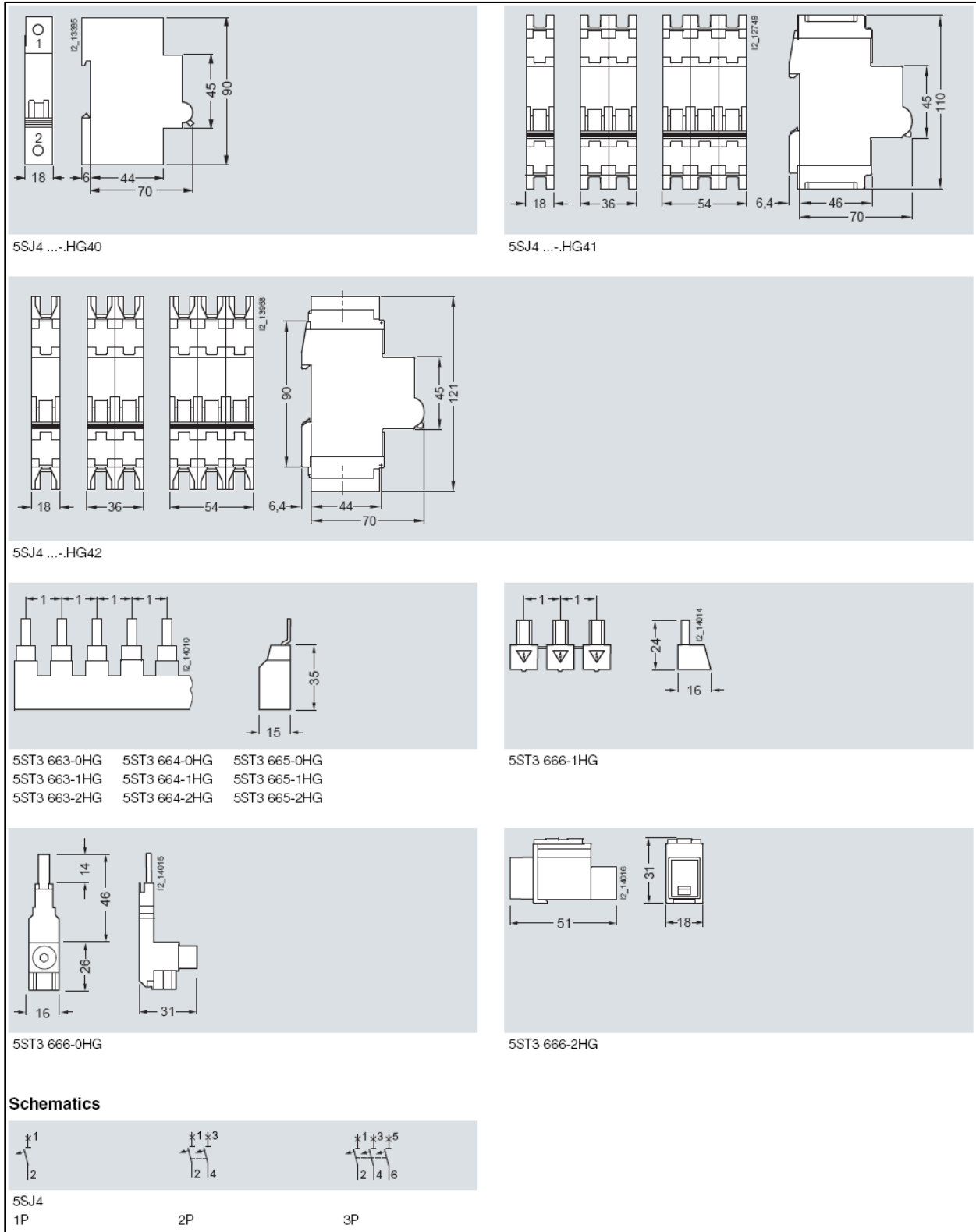
SIEMENS

Specifications

| Miniature circuit breakers | | 5SJ4 ...-HG40 | 5SJ4 ...-HG41 | 5SJ4 ...-HG42 |
|---|-----------------|---|--|------------------|
| Standards | | EN 6898; UL 489; CSA C22.2 No. 5-02 | | |
| Approved acc. to | | UL 489; CSA C22.2 No. 5-02, UL File No. E243414 | | |
| Tripping characteristic | | B, C, D | C, D | |
| Operational voltage | min. V AC/DC | 24 | | |
| • Acc. to IEC 60898 | max. V DC/pole | 60 | | |
| | max. V AC | 440 | | |
| • Acc. to UL 489 and CSA C22.2 No. 5-02 | max. V AC | 240/120 | 240 | 480Y/277 |
| | V DC/1P | 60 | 60 | 60 |
| | V DC/2P | -- | 125 | 125 |
| | | | | |
| Rated breaking capacity | | | | |
| • I_{cn} acc. to IEC 60898-1 | kA AC | 10 | | |
| • Acc. to UL 489 and CSA C22.2 No. 5-02 | kA AC | 14/10 ¹⁾ | 14/10 ¹⁾ | 10 ¹⁾ |
| Insulation coordination | | | | |
| • Rated insulation voltage | V AC | 250 | 250/440 | |
| • Degree of pollution for overvoltage category | | 3/III | | |
| Touch protection acc. to EN 50274 | | Yes | | |
| Handle end position, sealable | | Yes | | |
| Degree of protection acc. to EN 60529 | | IP20, with connected conductors | | |
| CFC and silicone-free | | Yes | | |
| Mounting | | On standard mounting rail | | |
| Terminals | | | | |
| • Combined terminals at both ends | | Yes | | |
| • Terminal tightening torque, only for Cu, 60/75 °C | Nm lb/in | 3.5 31 | | |
| Conductor cross-sections | | | | |
| • Solid and stranded, top and bottom terminal, acc. to UL 489 and CSA C22.2 No. 5-02 | AWG | 14 ... 4 | | |
| • AWG conductors, solid and stranded acc. to IEC 60898-1 | mm ² | 0.75 ... 35 | | |
| Mains connection | | Any | | |
| Mounting position | | Any | | |
| Average service life, with rated load | | 20000 actuations | | |
| Ambient temperature | | °C | -25 ... +45, occasionally +55, max. 95 % humidity, storage temperature: -40 ... +75 | |
| Resistance to climate acc. to IEC 60068-2-30 | | 6 cycles | | |
| Resistance to vibrations acc. to IEC 60068-2-6 | | m/s ² | 60 at 10 ... 150 Hz | |

| Busbars | | 5ST3 663 5ST3 664 5ST3 665 | 5ST3 666-0 | 5ST3 666-2 |
|---|-------|----------------------------------|---------------------------------|------------------------|
| Standards | | UL 489 | | |
| Approved acc. to | | UL 489; UL File Nr. E321559 | | |
| Operational voltage | | | | |
| • Acc. to IEC | V AC | 690 | | |
| • Acc. to UL 489 | V AC | 480Y/277 and 240 | | |
| Rated conditional short-circuit current | | kA | 15 kA with NH3 355A gL/gG 500 V | |
| Dielectric strength | kV/mm | 30 | | |
| Surge strength | kV | >9.5 | | |
| Rated current at 40 °C ambient temperature | | A | 115 | |
| Insulation coordination | | | | |
| • Degree of pollution | | 2 | | |
| • Overvoltage category | | III | | |
| Busbar cross-section | | mm ² Cu | 16 | |
| Infeed | | Any | | |
| Conductor cross-sections | | AWG mm ² | -- -- | 14 ... 2 1.5 ... 35 |
| Terminals – terminal tightening torque | | Nm lb/in | -- -- | 3.5 30 |
| Temperature resistance | | °C | 200 – UL94-V0/0.4 mm | |

Dimensions



The information provided in this product profile contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.

All products designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.