

SIEMENS

Betagard MCBs, RCCBs & DBs



With
SLR

All round protection guaranteed

Betagard MCB 5SL – Inspiring Safety

Answers for infrastructure.

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Overview

As a culture Siemens has always endeavoured to introduce innovative products worldwide. The Electrical Installation R&D team has now raised the bar with the introduction of Betagard 5SL Miniature Circuit Breaker. Manufactured and designed at the Siemens Aurangabad facility, Betagard 5SL – *Inspiring Safety*, sets a new benchmark for protection.

Loaded with numerous features, Betagard 5SL is the only patented MCB with a unique **SLR** (Slide Latch-Release) feature for tool free removal of MCB from DIN rail. It also allows single MCB removal from a bus mounted assembly of MCBs. Betagard 5SL MCB is ergonomically designed and allows user-friendly switching. ON-OFF Status is easily recognizable thanks to the color coded switching position indicator on its attractive grey lever. With highly effective touch protection against accidental contact, Betagard 5SL range is available in current rating upto 63A in B and C characteristics.

Features and Benefits



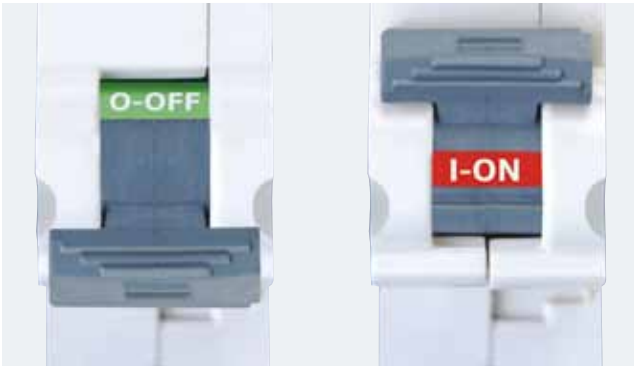
Ergonomically designed, with a user friendly lever for effortless switching



Highly effective touch protection against accidental contact



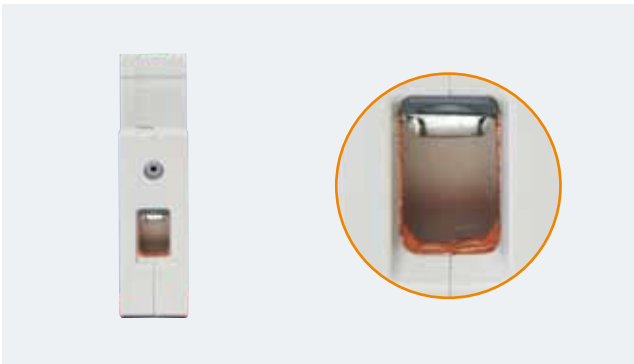
MCB with patented unique **SLR** (Slide Latch-Release) feature for tool free removal from DIN rail. It also allows individual MCBs to be removed from bus mounted assembly



To highlight exact switching position, easily recognizable color coded ON-OFF is embedded on the attractive grey lever



BIS approval for ISI marking as per latest IS/IEC 60898:2002 for assured quality and protection



Uniquely designed square terminal to accommodate wire up to 35 Sqmm



Enables firm mounting of Bus bar together with wire and front access of wires for safer installation



Terminals can accommodate 2 wires of same cross section (Solid up to 2 X 10 mm² and finely stranded with end sleeve up to 2 X 4 mm²) without twisting wire strands facilitates easier and safe wiring



Side mounting accessories like auxiliary switches and fault signaling contacts available for special applications



Lever locking device with maximum 6 mm shackle



Green product – Recyclable, low watt loss, free from hazardous material like CFC and silicon (ROHS)



Technical Specifications

| | | | Betagard 5SL |
|--|------------------------|-----------------|--|
| Standards | | | IS/IEC 60898-1 :2002 |
| Tripping characteristic | | | B, C |
| Number of poles | 1 | | ✓ |
| | 2 | | ✓ |
| | 3 | | ✓ |
| | 4 | | ✓ |
| Rated voltage | | V AC | 240/415 |
| Operational voltage | min. | V AC/DC | 24 |
| | max. | V DC/pole | 60 ¹⁾ |
| | max. | V AC | 440 |
| Rated breaking capacity | acc. to IS/IEC 60898-1 | kA AC | 7.5 |
| Insulation coordination | | | |
| • Rated insulation voltage | | V AC | 250/440 |
| • Degree of Pollution for overvoltage category III | | | 2 |
| Touch Protection | EN 50274 | | Yes |
| Degree of protection | | | IP20 |
| CFC and silicone-free | | | yes |
| Terminals | | | |
| • Terminal tightening torque, recommended | | Nm | 2.5 ... 3 |
| Conductor cross-sections | | | |
| • Solid and stranded | | mm ² | 0.75....35 |
| • Finely stranded with end sleeve, max. | | mm ² | 0.75....25 |
| Mounting position | | | any |
| Average Service life (with rated load) | | | 20.000 operations |
| Ambient temperature | °C | | -25 ... +45, occasionally +55, max. 95% humidity, storage temperature: -40 ... +75 |

¹⁾ The operational voltage 60 V DC/pole takes into account a battery charging voltage with peak value of 72 V





Selection and ordering data

| 7500 | I_n A | Mounting width MW ¹⁾ | Characteristic B Order No. | Characteristic C Order No. |
|---|------------------|------------------------------------|-------------------------------|-------------------------------|
| MCBs | | | | |
|  | 1P, 240/415 V AC | | | |
| | 0.5 | 1 | -- | 5SL61057RC |
| | 1 | | -- | 5SL61017RC |
| | 2 | | -- | 5SL61027RC |
| | 3 | | -- | 5SL61037RC |
| | 4 | | -- | 5SL61047RC |
| | 6 | | 5SL61066RC | 5SL61067RC |
| | 8 | | -- | 5SL61087RC |
| | 10 | | 5SL61106RC | 5SL61107RC |
| | 13 | | -- | 5SL61137RC |
| | 16 | | 5SL61166RC | 5SL61167RC |
| | 20 | | 5SL61206RC | 5SL61207RC |
| | 25 | | 5SL61256RC | 5SL61257RC |
| | 32 | | 5SL61326RC | 5SL61327RC |
| | 40 | | 5SL61406RC | 5SL61407RC |
| | 50 | | 5SL61506RC | 5SL61507RC |
| | 63 | | 5SL61636RC | 5SL61637RC |
|  | 2P, 240/415 V AC | | | |
| | 0.5 | 2 | -- | 5SL62057RC |
| | 1 | | -- | 5SL62017RC |
| | 2 | | -- | 5SL62027RC |
| | 3 | | -- | 5SL62037RC |
| | 4 | | -- | 5SL62047RC |
| | 6 | | 5SL62066RC | 5SL62067RC |
| | 8 | | -- | 5SL62087RC |
| | 10 | | 5SL62106RC | 5SL62107RC |
| | 13 | | -- | 5SL62137RC |
| | 16 | | 5SL62166RC | 5SL62167RC |
| | 20 | | 5SL62206RC | 5SL62207RC |
| | 25 | | 5SL62256RC | 5SL62257RC |
| | 32 | | 5SL62326RC | 5SL62327RC |
| | 40 | | 5SL62406RC | 5SL62407RC |
| | 50 | | 5SL62506RC | 5SL62507RC |
| | 63 | | 5SL62636RC | 5SL62637RC |

¹⁾ 1 MW (modular width) = 18 mm.

Selection and ordering data

| 7500 | I_n A | Mounting width MW ¹⁾ | Characteristic B Order No. | Characteristic C Order No. |
|---|--------------|------------------------------------|-------------------------------|-------------------------------|
| 3P, 415 V AC | | | | |
|  | 0.5 | 3 | -- | 5SL63057RC |
| | 1 | | -- | 5SL63017RC |
| | 2 | | -- | 5SL63027RC |
| | 4 | | -- | 5SL63047RC |
| | 6 | | 5SL63066RC | 5SL63067RC |
| | 10 | | 5SL63106RC | 5SL63107RC |
| | 16 | | 5SL63166RC | 5SL63167RC |
| | 20 | | 5SL63206RC | 5SL63207RC |
| | 25 | | 5SL63256RC | 5SL63257RC |
| | 32 | | 5SL63326RC | 5SL63327RC |
| | 40 | | 5SL63406RC | 5SL63407RC |
| | 50 | | 5SL63506RC | 5SL63507RC |
| | 63 | | 5SL63636RC | 5SL63637RC |
| | 4P, 415 V AC | | | |
|  | 0.5 | 4 | -- | 5SL64057RC |
| | 1 | | -- | 5SL64017RC |
| | 2 | | -- | 5SL64027RC |
| | 4 | | -- | 5SL64047RC |
| | 6 | | 5SL64066RC | 5SL64067RC |
| | 10 | | 5SL64106RC | 5SL64107RC |
| | 16 | | 5SL64166RC | 5SL64167RC |
| | 20 | | 5SL64206RC | 5SL64207RC |
| | 25 | | 5SL64256RC | 5SL64257RC |
| | 32 | | 5SL64326RC | 5SL64327RC |
| | 40 | | 5SL64406RC | 5SL64407RC |
| | 50 | | 5SL64506RC | 5SL64507RC |
| | 63 | | 5SL64636RC | 5SL64637RC |

¹⁾ 1 MW (modular width) = 18 mm.

Accessories

Betagard 5SL miniature circuit breakers are suitable for mounting auxiliary switches and fault signal contacts. Lever locking device is also available for Betagard 5SL.

Auxiliary switches (AS)

The auxiliary switch (AS) always signals the contact position of the miniature circuit breaker, regardless of whether the miniature circuit breaker is tripped manually or as a result of a fault.

Fault signal contacts (FC)

The fault signal contact (FC) signals the tripping of the miniature circuit breaker in the event of a fault, such as an overload or a short circuit. The contact position does not change if miniature circuit breaker is tripped manually.

Lever locking device

MCB lever locking device is available for Betagard 5SL MCBs. MCB lever can be locked in ON or OFF position. Any lock of maximum 6 mm shackle can be used with this device.

Benefits






The Betagard 5SL miniature circuit breakers are ideal for the quick and easy mounting of auxiliary switches and fault signal contacts. Captive metal brackets ensure the quick and easy mounting of devices on the miniature circuit breakers without tools.

Technical specifications

| | | Auxiliary switches (AS) 5ST3 010 | Fault signal contacts (FC) 5ST3 020 |
|--|------------------------|--|--|
| Standards | | EN 62019; IEC/EN 60947-5-1; UL 1077; CSA C22.2 No. 235 | |
| Short-circuit protection | | Miniature circuit breaker or gG 6 A fuse | |
| Contact load | | | |
| • Min. | | 50 mA, 24 V | 50 mA, 24 V |
| • Max. | | -- | -- |
| • 400 V AC, AC-14, NO | A | 2 | 2 |
| • 230 V AC, AC-14, NO | A | 6 | 6 |
| • 400 V AC, AC-13, NC | A | 2 | 2 |
| • 230 V AC, AC-13, NC | A | 6 | 6 |
| • 220 V DC, DC-13, NO+NC | A | 1 | 1 |
| • 110 V DC, DC-13, NO+NC | A | 1 | 1 |
| • 60 V DC, DC-13, NO+NC | A | 3 | 3 |
| • 24 V DC, DC-13, NO+NC | A | 6 | 6 |
| Service life, on average, with rated load | | 20000 actuations | 20000 actuations |
| Conductor cross-sections | mm ² AWG | 0.5 ... 2.5 22 ... 14 | 0.5 ... 2.5 22 ... 14 |
| Terminals | | | |
| • Terminal tightening torque | Nm lb/in | 0.5 4.5 | 0.5 4.5 |

Selection and ordering data

| | | Mounting width MW ¹⁾ | Reference No. |
|---|---|------------------------------------|----------------|
|  | Auxiliary switches (AS) 1 NO + 1 NC | 0.5 | 5ST3010 |
|  | Fault signal contacts (FC) 1 NO + 1 NC | 0.5 | 5ST3020 |
|  | For 5SL miniature circuit breakers For padlock with 3 ... 6 mm shackle | | 5ST3806 |

Rotary Handle Assembly for MCBs (ROH)

Benefits


- 5SJ, 5SY, 5SL, 5SP and 5TE8 series of MCBs/ Isolators can be fitted with Betagard Rotary Handle Assembly (ROH) for installation in Switchgear Cubicles and Distribution Panels
- The ROH gives operating uniformity and improves the aesthetics of the panel

- The ROH can be padlocked in OFF position with the help of suitable padlocks thereby ensuring complete safety to operating personal during maintenance
- Door interlock and defeat facility is available as a standard feature.

Applications

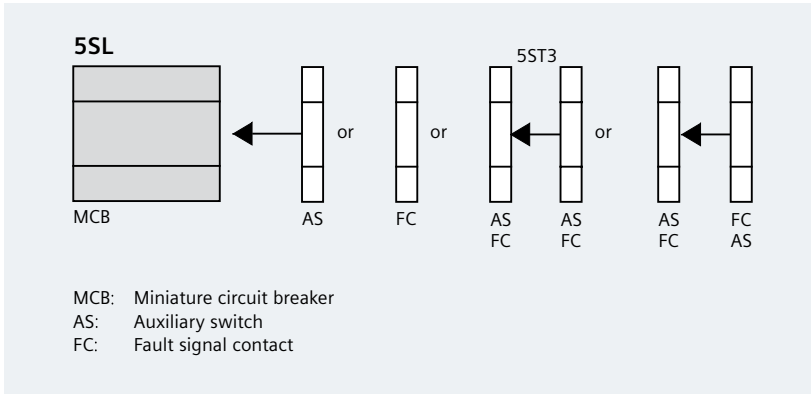
- Panel Boards / Switch Boards

Technical Details:

| | Product | Reference No |
|---|--------------------------------|-------------------|
|  | Rotary Handle Assembly for MCB | 5ST38140RC |

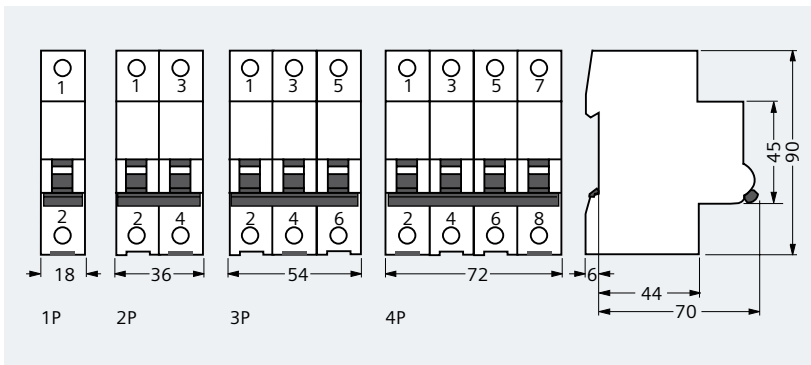
¹⁾ 1 MW (modular width) = 18 mm.

More information

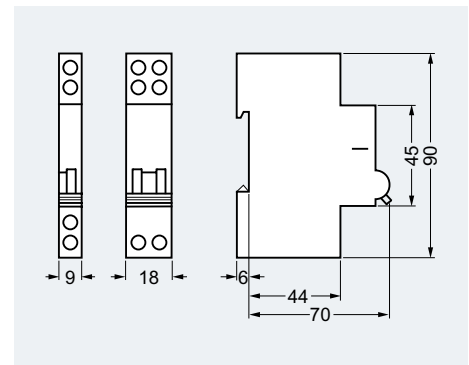


Dimensional drawings

5SL



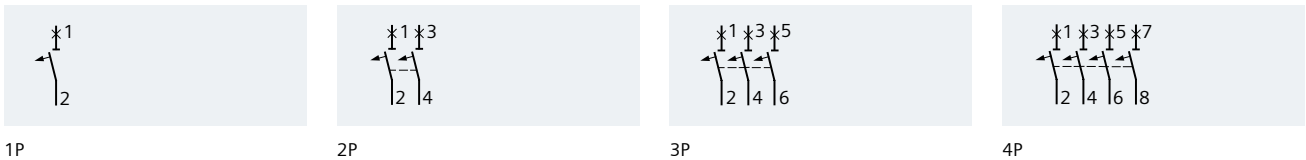
5ST3 010
5ST3 020



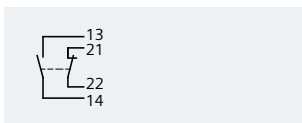
Schematics

Symbols

5SL



Auxiliary switches (AS)



5ST3 010

Fault signal contacts (FC)



5ST3 020

Application

'B' Characteristics

'B' Characteristic MCBs react quickly to overloads, and are set to trip when the current passing through them is between 3 to 5 times the normal full load current. They are suitable for protecting incandescent lighting and socket-outlet circuits in domestic and commercial environments, where there is little risk of surges that could cause the MCB to trip.

'C' Characteristics

'C' characteristics MCBs are used for protection of electrical circuits in general and are most widely used because of its suitability for practically all electrical circuits, cable and line protection. They are capable of supplying the majority of inductive and capacitive loads including most motor and fluorescent lighting loads.

This characteristic allows applying loads having high peak currents without requiring the MCB to be oversized. In fact, thanks to this characteristic, it is possible to apply loads with peak currents up to 5 times I_n , (rated current) and can hence be used to best advantage for handling higher inrush

currents e.g. lamps, motors, etc. Under 'C' characteristics, the magnetic operating limits (for short-circuit operations) are between 5 and 10 times the rated current (I_n) of MCB. For example the instantaneous mechanism of a 10A MCB will operate between 50A and 100A in an overcurrent situation. The thermal operating limits (for overload operation) are between 1.13 and 1.45 of the rated current (I_n) of the MCB.

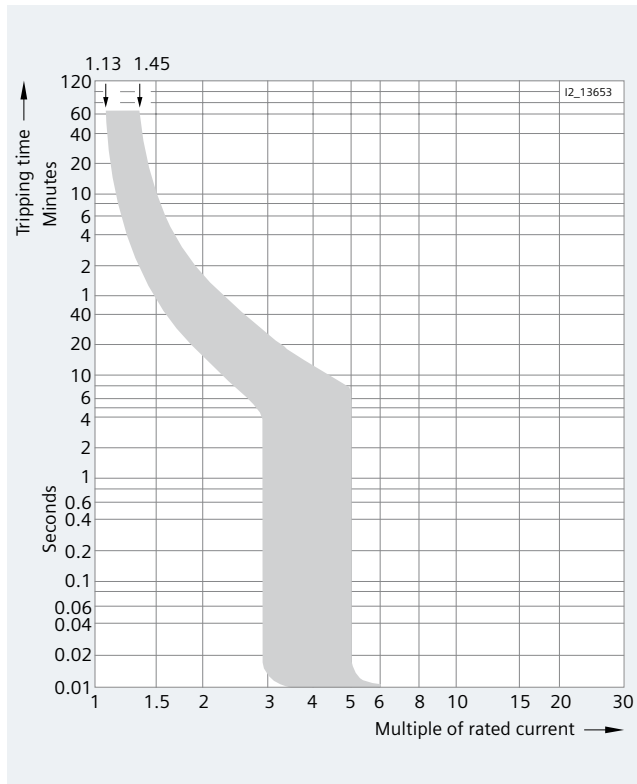
DC Operation

Single pole MCBs can be used up to 60V DC and double pole up to 110V DC.

However, they should not be used below 18V DC. Though the thermal operation is delayed but this is negligible. The instantaneous tripping characteristic must be increased by 40% (e.g. a Type 'C' MCB has a magnetic tripping characteristic between 5 and 10 times the rated current). This magnetic tripping characteristic would therefore become between 7 and 14 times the rated current.

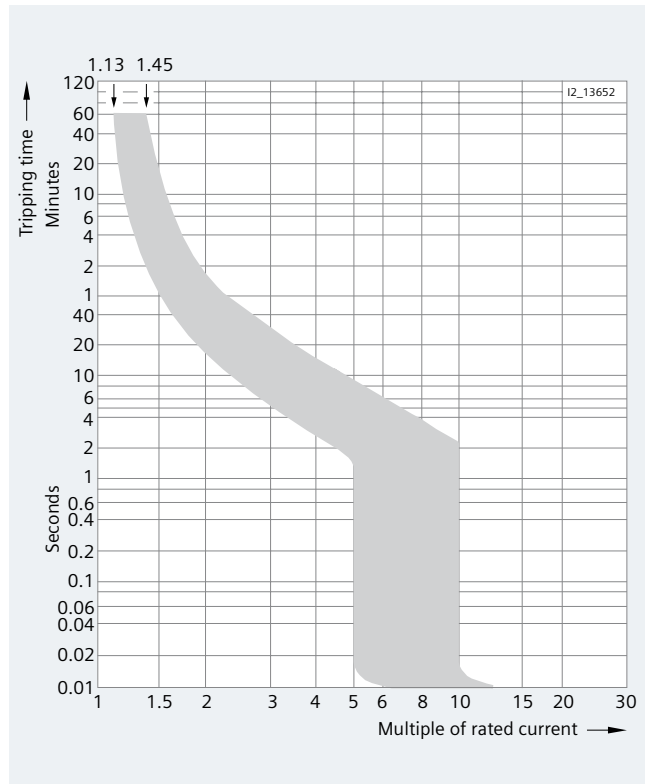
Characteristic curves

Tripping Characteristics as per IS/IEC 60898-1:2002



Tripping characteristic B

MCBs with this tripping characteristic are designed for universal use in socket outlet and lighting circuits.



Tripping characteristic C

In lamp and motor circuits with higher starting currents, MCBs with tripping characteristic C are generally used.

Tripping characteristics

Tripping characteristics at an ambient temperature of 30°C

| Tripping characteristic | Standards | Thermal trips | | | | Electromagnetic trips | | |
|-------------------------|------------------------------------|--------------------------------|-------------------------------|-------------------------|----------------------|-----------------------|----------------------------------|---------------------------------|
| | | Test currents: | | | | Test currents: | | |
| | | Limiting test current I_1 | Minimum test current I_2 | Tripping time t | | Hold I_4 | Latest tripping instant I_5 | Tripping time t |
| | | | | $I_n \leq 63 \text{ A}$ | $I_n > 63 \text{ A}$ | | | |
| B | IS/IEC 60898-1, DIN VDE 0641-11 | $1.13 \times I_n$ | $1.45 \times I_n$ | > 1 h < 1 h | > 2 h < 2 h | $3 \times I_n$ | $5 \times I_n$ | $\geq 0.1 \text{ s}$ < 0.1 s |
| C | IS/IEC 60898-1, DIN VDE 0641-11 | $1.13 \times I_n$ | $1.45 \times I_n$ | > 1 h < 1 h | > 2 h < 2 h | $5 \times I_n$ | $10 \times I_n$ | $\geq 0.1 \text{ s}$ < 0.1 s |

Internal power loss P_v of the miniature circuit breaker 5SL6

(Data per pole with I_n)

| I_n | Requirement of IS/IEC 60898 | | Characteristic B | | Characteristic C | |
|-------|-----------------------------|---|------------------|---|------------------|---|
| | P_v | W | P_v | W | P_v | W |
| 5SL6 | | | | | | |
| 0,5 | 3 | | -- | | 0.9 | |
| 1 | 3 | | -- | | 1.2 | |
| 2 | 3 | | -- | | 1.2 | |
| 3 | 3 | | -- | | 1.2 | |
| 4 | 3 | | 1.45 | | 1.3 | |
| 6 | 3 | | 1.15 | | 0.6 | |
| 8 | 3 | | -- | | 0.7 | |
| 10 | 3 | | 1.5 | | 1.2 | |
| 13 | 3.5 | | -- | | 1.8 | |
| 16 | 3.5 | | 1.9 | | 1.7 | |
| 20 | 4.5 | | 2.2 | | 1.7 | |
| 25 | 4.5 | | 2.3 | | 2.2 | |
| 32 | 6 | | 2.4 | | 2.5 | |
| 40 | 9 | | 3.4 | | 3.3 | |
| 50 | 9 | | 3.8 | | 3.5 | |
| 63 | 13 | | 5.4 | | 4.4 | |

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