

Selective Main Circuit-Breakers

S 750 and S 750 DR series acc. to DIN VDE 0641-21

Selective main circuit-breakers of the S 750 and S 750 DR series are SMCBs according to DIN VDE 0641-21 with voltage-independent Operating principle. This means that they do not rely on a control circuit to make or break contact (SHU) and are therefore particularly suitable for use in energy distribution-systems with maximum availability requirements. Two mounting variants are available: S 750 for bus bars and S 750 DR for DIN rail mounting.

- High short-circuit breaking capability of 25 kA over the complete rated current range
- High energy-limiting capacity by current-limiting selectivity
- Suitable for selective overcurrent protection at the meter mounting board and in general-purpose electric main distribution boards
- Suitable to disconnect and isolate electric circuits
- Voltage-independent function (no connection to neutral)
- Applicable in installation acc. to:
Overvoltage category I ... IV,
pollution degree 1 ... 3
- S 750 DR version for DIN rail mounting
- S 750 version for mounting on busbar systems without using any tools, with screwless connection on load side and additional cage terminals for the supply to the busbar system
- Isolation function according to IEC 60364-5-53
- Additional contact position indicator
RED = ON ; GREEN = OFF
- Lockable and sealable
- For operation by ordinary people



2CDC 021 205 F0007



2CDC 021 007 S0011

Fields of application

- As isolating device in meter boards for downstream customer's installation
- In main distribution boards or switchgear as a selective group or back-up protection device, especially where a high degree of continuity of supply is required, e.g. for installations related to "Safety Services" (IEC 60346-5-56), "Medical Locations" (IEC 60364-7-710) etc.
- For general applications with tripping characteristic E
- For the protection of areas where high current peaks (e.g. start-up currents) occur during operation, using circuit-breakers with tripping characteristic K (S 750 DR)

Purpose

- Ensure power supply capability over a large temperature range
- Protect wires and cables in case of operational overload or short-circuit
- Additional limitation of let-through current and let-through energy in case of short-circuit tripping in final circuit
- Disconnection and isolation of the system, also by ordinary people
- Special selectivity with respect to downstream circuit breakers and upstream fuses
- Ensure a high availability of the electrical power supply



Selective Main Circuit-Breaker series S 750 and S 750 DR Function

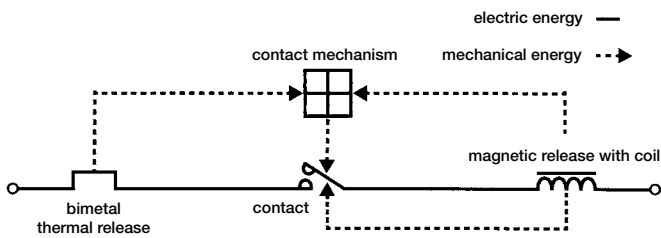
ABB SMCB operate according to a voltage-independent principle. They do not require an auxiliary source, neither for making / breaking contact nor for the protective function. For overload tripping, a thermostatic bimetal is used. As usual for circuit-breakers, it is necessary to separate the main contacts in a time less than 1ms by using a short-circuit "hammer trip" solenoid to ensure effective short-circuit limitation. When the downstream protection device has tripped because of a short-circuit, the contact tips reclose automatically through a simple spring-type system without requiring auxiliary energy.

If a short-circuit occurs between the S 750 (DR) and the downstream circuit-breaker, another bimetal release enables short-time delayed tripping. Both the selective release and the

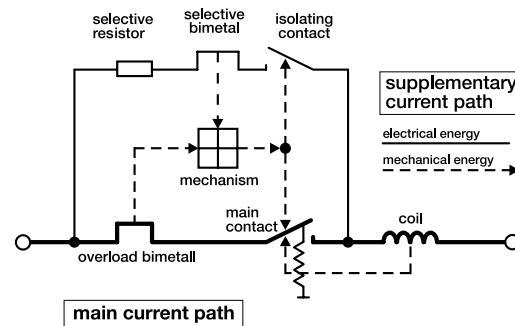
overload release trip the mechanism and ensure that the contact tips remain in the open position enabling isolating. The current is limited and the arc is quenched as in the case of standard circuit-breakers by means of quick contact opening by a "hammer trip" solenoid and quick build-up of the arc voltage in the quenching chamber.

This operating principle achieves a particularly high selective behaviour – **the current-limiting selectivity**. In case of short-circuit in final circuits, the S 750 (DR) supports the downstream circuit breaker and limits the energy and thus minimizes the impact on the whole installation and the feeding supply network. This selective behaviour of the S 750 (DR) offers major advantages compared to fuse-based technologies.

Operating principle of a circuit-breaker



Operating principle of the selective main circuit breaker S 750 (DR)



Locking

The S 750 (DR) is provided with an integrated locking tab which makes it possible to block the all poles simultaneously. The integrated locking tab locks the circuit-breaker in ON or OFF position and can be additionally protected by a padlock, wire seal or cable tie. When locked in ON position, the

protective function is maintained in case of a fault: The blocked switch handle still permits the tripping of the mechanism and opening of the contacts in case of overload or short-circuit (trip-free mechanism). The indicator shows "green" also in case of a fault with ON position locked – giving you the certainty that power is switched off.

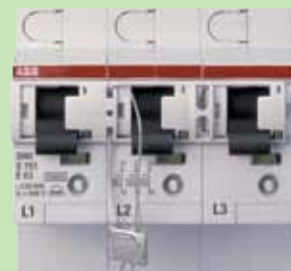
Protecting the locked position with a cable tie



Protecting the locked position with a padlock



Protecting the locked position with a wire seal



Selective Main Circuit-Breaker series S 750 and S 750 DR

Technical data

| | | S 750 DR | S 750 |
|---|---------|--|---|
| General Data | | | |
| Standards | | DIN VDE 0641-21 | DIN VDE 0641-21 |
| Poles | | 1-, 2-, 3-, 4-pole, 3 x 1-pole | 1-pole, 3 x 1-pole |
| Rated current I_n | A | 16...63 A | 16...63 A |
| Rated frequency f | Hz | 50/60 Hz | 50/60 Hz |
| DIN VDE 0641-21 | | | |
| Tripping characteristics | | $E_{selective}, K_{selective}$ | $E_{selective}$ |
| Rated operational voltage U_n | V | 230/400 V AC | 230/400 V AC |
| Rated breaking capacity I_{cn} | kA | 25 kA | 25 kA |
| Rated insulation voltage U_i | V | 690 V AC | 690 V AC |
| Selectivity limit current I_{s1} | kA | rated breaking capacity of downstream breaker (min.) – see selectivity tables | |
| Overvoltage category | | IV | IV |
| Pollution degree | | 3 | 3 |
| Rated impulse withstand voltage U_{imp} | kV | 6 kV | 6 kV |
| Impulse withstand voltage acc. to IEC 60364-5-53 (at 2000m above sea level) | kV | 8 kV | 8 kV |
| Impulse withstand test voltage (1.2 / 50 μ s) | kV | 9.8 kV | 9.8 kV |
| Isolation function acc. to IEC 60364-53 | | yes | yes |
| Dielectric t_e | kV | 2 kV (50/60 Hz, 1 min.) | 2 kV (50/60 Hz, 1 min.) |
| Mechanical Data | | | |
| Contact position indication | | via toggle (I-ON / O-OFF), via trip indicator (red-ON / green-OFF) | |
| IP protection degree acc. to IEC / EN 60529 | | IP40 (when protected by internal cabinet cover) | |
| Shock resistance acc. to IEC / EN 60068-2-27 | | 25 g, min. 3 shocks, duration 13 ms | |
| Vibration resistance acc. to IEC/EN 60 068-2-6 | | 2 g, 20 cycles 5...150...5 Hz | 2 g, 20 cycles 5...150...5 Hz |
| Environmental conditions (damp heat cyclic) acc. to IEC / EN 60068-2-30 | °C / RH | 28 cycles: 55 °C / 90...96% – 25 °C / 95...100% | |
| Ambient temperature | °C | -25 ... +55 °C | -25 ... +55 °C |
| Storage temperature | °C | -40 ... +70 °C | -40 ... +70 °C |
| Installation | | | |
| Wire connection (Top) | | frame terminal to connect solid and rigid stranded conductors incl. flexible conductors 2.5...50 mm ² | screwless spring terminal for solid or flexible conductors (with or without ferrules) 2.5 ... 16 mm ² |
| Wire connection (Bottom) | | frame terminal to connect solid and rigid stranded conductors incl. flexible conductors 2.5...50 mm ² | frame terminal to connect solid and rigid stranded conductors incl. flexible conductors 2.5...50 mm ² , also to feed the busbars up to 100 A |
| Max. torque | Nm | 2,5 ... 3 Nm | 2,5 ... 3 Nm |
| Recommended Screwdriver | | slotted: 1 x 5.5, Pozidrive: PZ 2 | slotted: 1 x 5.5, Pozidrive: PZ 2 |
| Mounting | | DIN rail 35 mm acc. to EN 60715 | 40 mm busbar system (5 / 10 mm x 12 mm), 4- / 5-pole |
| Locking | | integrated blocking device, additional locking by 3 mm padlock, 1mm seal wire or cabel binder | |
| Mouting position | | any | any |
| Supply | | any | any |
| Dimensions and weight | | | |
| Size acc. to DIN 43880 | | 3 | 6 |
| Width | | 27 mm per pole | 27 mm per pole |
| Pole dimensions (H x T x B) | mm | see drawings | see drawings |
| Pole weight | g | see ordering tables | see ordering tables |
| Accessories | | | |
| | | 3 mm padlock | 3 mm padlock |

Selective Main Circuit-Breaker series S 750 and S 750 DR

Technical data

Tripping behavior

| tripping characteristic acc. to DIN VDE 0641-21 | reference ambient temperature | delayed overload tripping | | | short-time delayed short-circuit tripping | | |
|---|-------------------------------|-----------------------------------|-------------------------------|---------------|---|-------------------------------------|--|
| | | conventional non-tripping current | conventional tripping current | tripping time | delayed tripping current | short-time delayed tripping current | tripping time |
| | T_{ref}^1 | I_{nt} | I_t | t | I_{tv} | I_{tk} | t |
| E _{selective} | 30 °C | 1.05 x I_n | | ≥ 2 h | 5 x I_n | | 0.05 s < t < 5 s ($I_n \leq 32$ A) 0.05 s < t < 10 s ($I_n > 32$ A) |
| | | | 1.2 x I_n | < 2 h | | 6.25 x I_n | 0.01 s < t < 0.3 s |
| K _{selective} | 20 °C | 1.05 x I_n | | ≥ 2 h | 8 x I_n | | 0.05 s < t < 15 s |
| | | | 1.2 x I_n | < 2 h | | 12 x I_n | 0.01 s < t < 0.3 s |

¹ Reference ambient temperature 30 °C (in the case of higher ambient temperatures, the current values are reduced by ca. 5 % per each 10 K)

Deviating ambient temperature

| tripping characteristic acc. to DIN VDE 0641-21 | Rated current I_n /A | Maximum operating current at ambient temperature T | | | | | | | |
|---|------------------------|--|--------|------|--------|--------|--------|--------|--------|
| | | -20 °C | -10 °C | 0 °C | +10 °C | +20 °C | +30 °C | +40 °C | +50 °C |
| E _{selective} | 16 | 19.8 | 19.1 | 18.4 | 17.6 | 16.8 | 16.0 | 15.1 | 14.2 |
| | 20 | 24.7 | 23.8 | 22.9 | 22.0 | 21.0 | 20.0 | 18.9 | 17.8 |
| | 25 | 30.9 | 29.8 | 28.7 | 27.5 | 26.3 | 25.0 | 23.6 | 22.2 |
| | 35 | 43.2 | 41.7 | 40.1 | 38.5 | 36.8 | 35.0 | 33.1 | 31.1 |
| | 40 | 49.4 | 47.7 | 45.9 | 44.0 | 42.1 | 40.0 | 37.8 | 35.5 |
| | 50 | 61.8 | 59.6 | 57.4 | 55.0 | 52.6 | 50.0 | 47.3 | 44.4 |
| | 63 | 77.8 | 75.1 | 72.3 | 69.3 | 66.2 | 63.0 | 59.6 | 56.0 |
| K _{selective} | 16 | 19.1 | 18.4 | 17.6 | 16.8 | 16.0 | 16.0 | 15.1 | 14.2 |
| | 20 | 23.8 | 22.9 | 22.0 | 21.0 | 20.0 | 20.0 | 18.9 | 17.8 |
| | 25 | 29.8 | 28.7 | 27.5 | 26.3 | 25.0 | 25.0 | 23.6 | 22.2 |
| | 35 | 41.7 | 40.1 | 38.5 | 36.8 | 35.0 | 35.0 | 33.1 | 31.1 |
| | 40 | 47.7 | 45.9 | 44.0 | 42.1 | 40.0 | 40.0 | 37.8 | 35.5 |
| | 50 | 59.6 | 57.4 | 55.0 | 52.6 | 50.0 | 50.0 | 47.3 | 44.4 |
| | 63 | 75.1 | 72.3 | 69.3 | 66.2 | 63.0 | 63.0 | 59.6 | 56.0 |

Internal resistance and power loss per pole

| Rated current I_n /A | S 750 E | | S 750 DR E | | S 750 DR K | |
|------------------------|--|----------------------------------|--|----------------------------------|--|----------------------------------|
| | Internal resistance ¹ R_l /mΩ | Power loss ² P_V /W | Internal resistance ¹ R_l /mΩ | Power loss ² P_V /W | Internal resistance ¹ R_l /mΩ | Power loss ² P_V /W |
| 16 | 15.3 | 4.5 | 15.3 | 4.1 | 14.5 | 3.9 |
| 20 | 11.3 | 6.0 | 11.3 | 5.4 | 10.7 | 5.1 |
| 25 | 8.7 | 6.5 | 8.7 | 5.9 | 8.3 | 5.5 |
| 35 | 4.5 | 6.9 | 4.5 | 6.3 | 4.3 | 6.2 |
| 40 | 3.8 | 6.4 | 3.4 | 6.1 | 3.2 | 5.8 |
| 50 | 3.5 | 8.0 | 2.9 | 7.6 | 2.8 | 7.2 |
| 63 | 2.3 | 9.7 | 2.1 | 8.7 | 2.1 | 8.7 |

¹ in cold state

² at rated current

Back-up protection

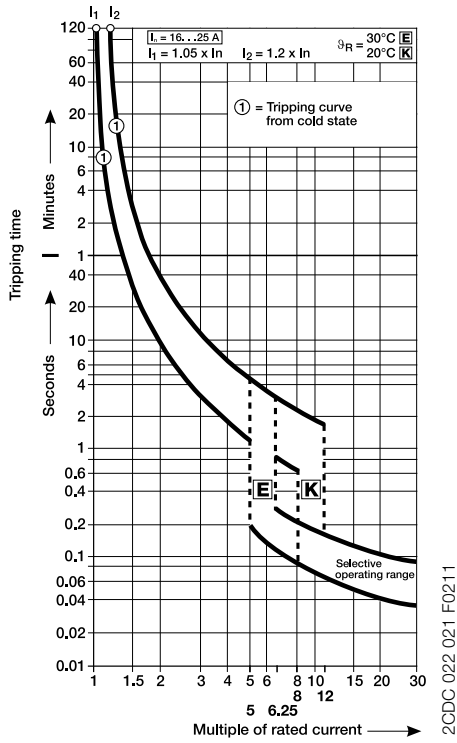
Main circuit breakers of the S 750 (DR) series are capable of switching off short-circuit currents of up to 25 kA automatically in networks with a rated voltage of 230/400 V. Back-up

protection is only necessary if the prospective short-circuit current may exceed 25 kA prosp. at the installation point. Further information on back-up protection is available on request.

Selective Main Circuit-Breaker series S 750 and S 750 DR

Tripping characteristics

trip curve 16... 25 A



trip curve 35... 63 A

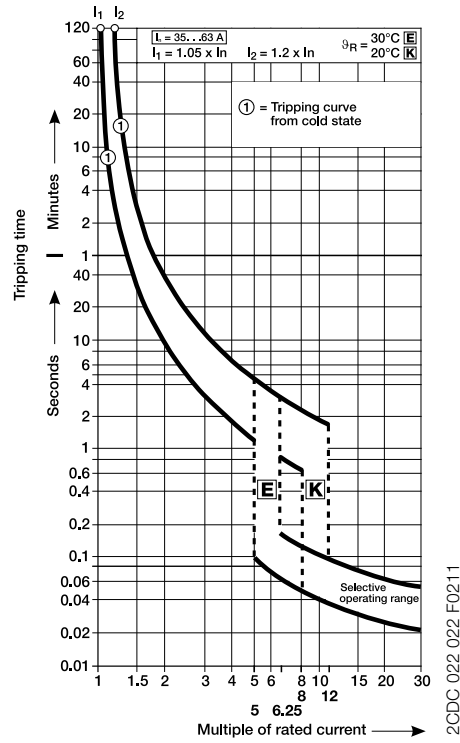


diagram of let-through values I^2t 16... 63 A

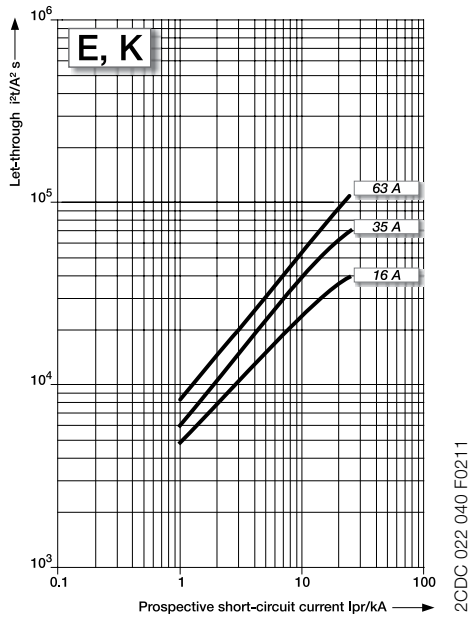
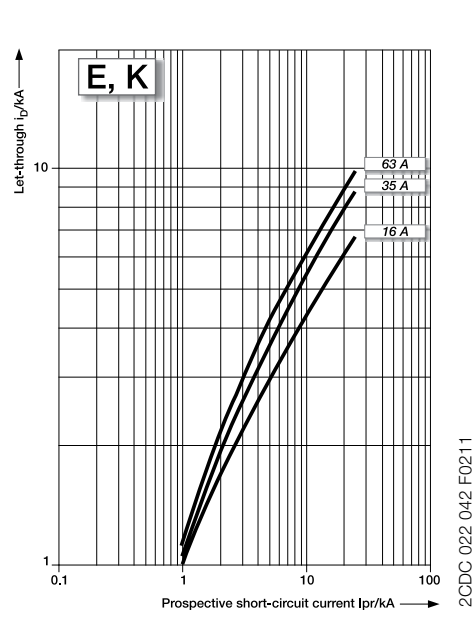


diagram of let-through values I_p 16... 63 A



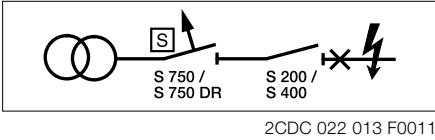
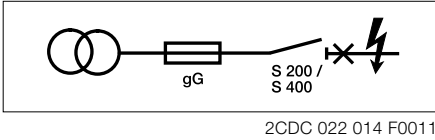
Selective Main Circuit-Breaker series S 750 and S 750 DR

Short-circuit selectivity

When ABB miniature circuit-breaker are used in combination with the S 750 (DR), higher short-circuit currents can be disconnected than are indicated as permissible rated switching capacity of device. Considering the values given in the table, the

S 750 (DR) operates selectively with respect to the combination with the final device. If other mcbs are used selectivity for 6 kA and 10 kA devices is available up to the rated switching capacity of the downstream device.

Short-circuit discrimination of S 750 (DR) with respect to downstream MCB S 200 / S 400 compared to fuse protection¹

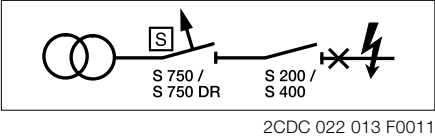
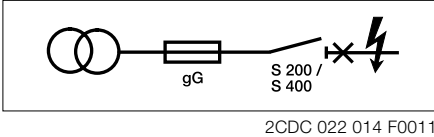
| MCBs | |  | | | | | | | |  | | | | | | |
|------------------|---------------|---|------------------|----|----|----|----|----|----|---|------|-----|-----|-----|-----|-----|
| final circuit: | supply side: | | S 750 / S 750 DR | | | | | | | | fuse | | | | | |
| | Char. | E / K | | | | | | | | gG | | | | | | |
| | I_{cn} [kA] | 25 | | | | | | | | | | | | | | |
| S 200 S 400 E | 6 | I_n [A] | 16 | 20 | 25 | 35 | 40 | 50 | 63 | 16 | 20 | 25 | 35 | 50 | 63 | |
| | | ≤ 2 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 1 | 1.2 | 4 | 6 | 6 | 6 | |
| | | 3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.7 | 1.2 | 4.6 | 6 | 6 | |
| | | 4 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.6 | 0.9 | 2.8 | 6 | 6 | |
| | | B, C | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.7 | 1.5 | 3 | 5.5 |
| | | C | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.7 | 1.4 | 2.8 | 4.5 |
| | | B, C | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.6 | 1.2 | 2 | 3.3 |
| | | | 13 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | 0.6 | 1.2 | 2 | 3.3 |
| | | | 16 | | 10 | 10 | 10 | 10 | 10 | 10 | | | 0.6 | 1.1 | 1.8 | 2.8 |
| | | | 20 | | | 10 | 10 | 10 | 10 | 10 | | | | 1 | 1.6 | 2.4 |
| | | | 25 | | | | 10 | 10 | 10 | 10 | | | | | 1.6 | 2.4 |
| | | | 32 | | | | | 10 | 10 | 10 | | | | | 1.3 | 2.2 |
| | | | 40 | | | | | | 10 | 10 | | | | | | 2.2 |
| final circuit: | supply side: | | S 750 / S 750 DR | | | | | | | | fuse | | | | | |
| | Char. | E / K | | | | | | | | gG | | | | | | |
| | I_{cn} [kA] | 25 | | | | | | | | | | | | | | |
| S 200 | K | I_n [A] | 16 | 20 | 25 | 35 | 40 | 50 | 63 | 16 | 20 | 25 | 35 | 50 | 63 | |
| | | ≤ 2 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 1.2 | 4 | 6 | 6 | 6 | |
| | | 3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.7 | 1 | 3.2 | 6 | 6 | |
| | | 4 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.6 | 0.8 | 2.1 | 5.3 | 6 | |
| | | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.7 | 1.3 | 2.8 | 6 | |
| | | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.6 | 1.1 | 2 | 3.5 | |
| | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.3 | 0.5 | 0.9 | 1.5 | 2.3 | |
| | | 16 | | 10 | 10 | 10 | 10 | 10 | 10 | | | 0.4 | 0.8 | 1.3 | 2.1 | |
| | | 20 | | | 10 | 10 | 10 | 10 | 10 | | | | 0.8 | 1.3 | 2.1 | |
| | | 25 | | | | 10 | 10 | 10 | 10 | | | | | 1.1 | 1.7 | |
| | | 32 | | | | | 10 | 10 | 10 | | | | | 1.1 | 1.7 | |
| 40 | | | | | | 10 | 10 | | | | | | 1.3 | | | |

¹ The selectivity limit current I_{s1} results from the let-through I^2t -value of S200/S400 and the pre-arcing (melting) I^2t -value of a fuse acc. to IEC/EN 60269

Selective Main Circuit-Breaker series S 750 und S 750 DR

Short-circuit selectivity

Short-circuit discrimination of S 750 (DR) with respect to downstream MCB S 200/S 400 compared to fuse protection¹

| MCBs | |  |  | | | | | | | | | | | | | | | | | |
|----------------|--------------|---|---|-----------|----------|----|----|----|----|------|----|----|----|----|-----|-----|-----|-----|-----|-----|
| final circuit: | supply side: | S 750/S 750 DR | | | | | | | | fuse | | | | | | | | | | |
| | Char. | E/K | | | | | | | | gG | | | | | | | | | | |
| S 200 | Z | 6 | I_{cn} [kA] | I_n [A] | 25 | | | | | | | | 25 | | | | | | | |
| | | | | | ≤ 2 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.5 | 2 | 6 | 6 | 6 | 6 |
| | | | | | 3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.7 | 1.2 | 6 | 6 | 6 |
| | | | | | 4 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.6 | 1.1 | 4.2 | 6 | 6 |
| | | | | | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.8 | 2 | 5.2 | 6 |
| | | | | | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.6 | 1.3 | 3.1 | 6 |
| | | | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | 0.3 | 0.5 | 1 | 2 | 3.6 |
| | | | | | 16 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | 0.5 | 0.9 | 1.5 | 2.8 |
| | | | | | 20 | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | 0.7 | 1.2 | 2.1 |
| | | | | | 25 | | | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | 1.1 | 1.8 |
| | | | | | 32 | | | | | 10 | 10 | 10 | 10 | 10 | | | | | 1.1 | 1.8 |
| 40 | | | | | | 10 | 10 | 10 | 10 | | | | | | 1.8 | | | | | |

| final circuit: | supply side: | S 750/S 750 DR | | | | | | | | fuse | | | | | | | | | |
|--------------------|---------------|----------------|----------|----------|----|----|----|----|----|------|----|----|-----|-----|-----|-----|-----|-----|-----|
| Char. | I_{cn} [kA] | E/K | | | | | | | | gG | | | | | | | | | |
| | | 25 | | | | | | | | 25 | | | | | | | | | |
| S 200 M S 400 M | 10 | I_n [A] | ≤ 2 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 1 | 1.2 | 4 | 10 | 10 | 10 | |
| | | | 3 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0.3 | 0.7 | 1.2 | 4.6 | 10 | 10 | |
| | | | 4 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0.3 | 0.6 | 0.9 | 2.8 | 10 | 10 | |
| | | | B, C | 6 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0.2 | 0.5 | 0.8 | 1.5 | 3 | 7 | |
| | | | C | 8 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0.2 | 0.4 | 0.7 | 1.4 | 2.8 | 4.5 | |
| | | | B, C | 10 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0.2 | 0.4 | 0.6 | 1.2 | 2 | 3.3 |
| | | | | 13 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | | 0.6 | 1.2 | 2 | 3.3 |
| | | | | 16 | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | | 0.6 | 1.1 | 1.8 | 2.8 |
| | | | | 20 | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | | | 1 | 1.6 | 2.4 |
| | | | | I_{Pt} | 25 | | | | 15 | 15 | 15 | 15 | 15 | | | | | 1.6 | 2.4 |
| | | | | 32 | | | | | 15 | 15 | 15 | 15 | | | | | 1.3 | 2.2 | |
| | 40 | | | | | | 15 | 15 | 15 | | | | | | 2.2 | | | | |

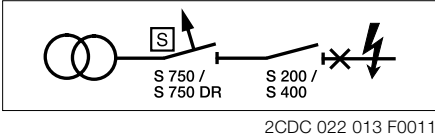
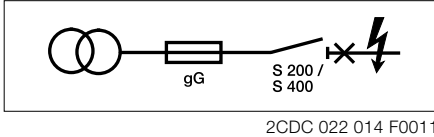
| final circuit: | supply side: | S 750/S 750 DR | | | | | | | | fuse | | | | | | | | |
|--------------------|---------------|----------------|----------|----|----|----|----|----|----|------|----|----|-----|-----|-----|-----|-----|-----|
| Char. | I_{cn} [kA] | E/K | | | | | | | | gG | | | | | | | | |
| | | 25 | | | | | | | | 25 | | | | | | | | |
| S 200 M S 400 M | K | I_n [A] | ≤ 2 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 1.2 | 4 | 10 | 10 | 10 |
| | | | 3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.7 | 1 | 3.2 | 10 | 10 |
| | | | 4 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.6 | 0.8 | 2.1 | 5.3 | 10 |
| | | | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.7 | 1.3 | 2.8 | 6 |
| | | | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.6 | 1.1 | 2 | 3.5 |
| | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.3 | 0.5 | 0.9 | 1.5 | 2.3 |
| | | | 16 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | 0.4 | 0.8 | 1.3 | 2.1 |
| | | | 20 | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | 0.8 | 1.3 | 2.1 |
| | | | 25 | | | | 10 | 10 | 10 | 10 | 10 | 10 | | | | | 1.1 | 1.7 |
| | | | 32 | | | | | 10 | 10 | 10 | 10 | 10 | | | | | 1.1 | 1.7 |
| | | | 40 | | | | | | 10 | 10 | 10 | 10 | | | | | | 1.3 |

¹ The selectivity limit current I_{s1} results from the let-through I_{Pt} -value of S 200/S 400 and the pre-arcing (melting) I_{Pt} -value of a fuse acc. to IEC/EN 60269

Selective Main Circuit-Breaker series S 750 and S 750 DR

Short-circuit selectivity

Short-circuit discrimination of S750 (DR) with respect to downstream MCB S 200 / S 400 compared to fuse protection¹

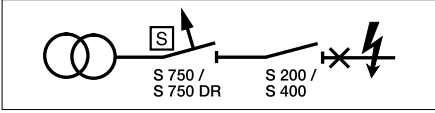

| MCBs | |  |  | | | | | | | | | | | | | | | |
|----------------|---------------|---|---|--------------|------------------|----|----|----|-----|------|----|-----|------|-----|-----|-----|-----|--|
| final circuit: | supply side: | S 750 / S 750 DR | | | | | | | | fuse | | | | | | | | |
| | Char. | E / K | | | | | | | | gG | | | | | | | | |
| | I_{cn} [kA] | 25 | | | | | | | | | | | | | | | | |
| S 200 M | Z | 10 | I_n [A] | 16 | 20 | 25 | 35 | 40 | 50 | 63 | 16 | 20 | 25 | 35 | 50 | 63 | | |
| | | | ≤ 2 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.5 | 2 | 10 | 10 | 10 | 10 | |
| | | | 3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.7 | 1.2 | 7 | 10 | 10 | |
| | | | 4 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.6 | 1.1 | 4.2 | 10 | 10 | |
| | | | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.8 | 2 | 5.2 | 10 | |
| | | | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.2 | 0.4 | 0.6 | 1.3 | 3.1 | 8 | |
| | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.3 | 0.5 | 1 | 2 | 3.6 | | |
| | | | 16 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.5 | 0.9 | 1.5 | 2.8 | | | |
| | | | 20 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0.7 | 1.2 | 2.1 | | | | |
| | | | 25 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 1.1 | 1.8 | | | | | |
| | | | 32 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 1.1 | 1.8 | | | | | |
| 40 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 1.8 | | | | | | | | | |
| final circuit: | supply side: | S 750 / S 750 DR | | | | | | | | fuse | | | | | | | | |
| | Char. | E / K | | | | | | | | gG | | | | | | | | |
| | I_{cn} [kA] | 25 | | | | | | | | | | | | | | | | |
| S 200 P | B | 25 | I_n [A] | 16 | 20 | 25 | 35 | 40 | 50 | 63 | 16 | 20 | 25 | 35 | 50 | 63 | | |
| | | | 6 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.2 | 0.4 | 0.6 | 1.2 | 2.6 | 6 | |
| | | | 10 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.2 | 0.3 | 0.5 | 1 | 1.8 | 3.1 | |
| | | | 13 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.5 | 1 | 1.7 | 3 | | | |
| | | | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.5 | 0.9 | 1.6 | 3 | | | |
| | | | 20 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.9 | 1.4 | 2.3 | | | | |
| | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 1.4 | 2.3 | | | | | |
| | | | 32 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 1.2 | 2.1 | | | | | |
| | | | 40 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 2.1 | | | | | | |
| | | | final circuit: | supply side: | S 750 / S 750 DR | | | | | | | | fuse | | | | | |
| | | | | Char. | E / K | | | | | | | | gG | | | | | |
| I_{cn} [kA] | 25 | | | | | | | | | | | | | | | | | |
| S 200 P | C | 25 | I_n [A] | 16 | 20 | 25 | 35 | 40 | 50 | 63 | 16 | 20 | 25 | 35 | 50 | 63 | | |
| | | | ≤ 2 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 1 | 2 | 25 | 25 | 25 | 25 | |
| | | | 3 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.8 | 1.5 | 6 | 10 | 10 | |
| | | | 4 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.6 | 1 | 3.3 | 6 | 10 | |
| | | | 6 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.2 | 0.4 | 0.6 | 1.2 | 2.6 | 6 | |
| | | | 8 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.2 | 0.4 | 0.6 | 1.1 | 2.4 | 4 | |
| | | | 10 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.2 | 0.3 | 0.5 | 1 | 1.8 | 3.1 | |
| | | | 13 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.5 | 1 | 1.7 | 3 | | | |
| | | | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.5 | 0.9 | 1.6 | 3 | | | |
| | | | 20 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.9 | 1.4 | 2.3 | | | | |
| | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 1.4 | 2.3 | | | | | |
| 32 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 1.2 | 2.1 | | | | | | | | |
| 40 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 2.1 | | | | | | | | | |

¹ The selectivity limit current I_{st} results from the let-through I^2t -value of S200/S400 and the pre-arcing (melting) I^2t -value of a fuse acc. to IEC / EN 60269

Selective Main Circuit-Breaker series S 750 and S 750 DR

Short-circuit selectivity

Short-circuit discrimination of S 750 (DR) with respect to downstream MCB S 200/S 400 compared to fuse protection¹

| MCBs | |  | | | | | | | |  | | | | | | | | | |
|----------------|--------------|---|--------------------|----------------------|--------------------|-----|----|----|----|---|-----|-----|-----|-----|-----|-----|----|----|----|
| final circuit: | supply side: | S 750 / S 750 DR | | | | | | | | fuse | | | | | | | | | |
| | Char. | E / K | | | | | | | | gG | | | | | | | | | |
| S 200 P | K | I _{cn} [kA] | I _n [A] | 25 | | | | | | | | 25 | | | | | | | |
| | | | | ≤ 2 | 16 | 20 | 25 | 35 | 40 | 50 | 63 | 16 | 20 | 25 | 35 | 50 | 63 | | |
| | | 3 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.4 | 0.7 | 3 | 25 | 25 | 25 | | | |
| | | 4 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.4 | 0.6 | 1 | 3.5 | 10 | 10 | | | |
| | | 6 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.5 | 0.9 | 2.1 | 7 | 10 | | | |
| | | 8 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.4 | 0.6 | 1.2 | 2.8 | 5.5 | | | |
| | | 10 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.4 | 0.5 | 1.2 | 2.5 | 4 | | | |
| | | 13 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.2 | 0.3 | 0.4 | 0.9 | 1.7 | 3.1 | | | |
| | | 16 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.3 | 0.4 | 0.8 | 1.3 | 2.2 | | | |
| | | 20 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.4 | 0.4 | 0.8 | 1.2 | 2 | | | | |
| | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.7 | 0.7 | 1.1 | 1.8 | | | | | |
| | | 32 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 1 | 1 | 1.5 | | | | | | |
| | | 40 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 1 | 1 | 1.5 | | | | | | |
| | | S 200 P | Z | I _{cn} [kA] | I _n [A] | 25 | | | | | | | | 25 | | | | | |
| | | | | | | ≤ 2 | 16 | 20 | 25 | 35 | 40 | 50 | 63 | 16 | 20 | 25 | 35 | 50 | 63 |
| 3 | 25 | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.6 | 1.2 | 25 | 25 | 25 | 25 | | | |
| 4 | 25 | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.4 | 0.6 | 1 | 3.5 | 10 | 10 | | | |
| 6 | 25 | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.5 | 0.9 | 2.1 | 7 | 10 | | | |
| 8 | 25 | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.4 | 0.6 | 1.2 | 2.8 | 6 | | | |
| 10 | 25 | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.3 | 0.4 | 0.5 | 1.1 | 2.5 | 3.5 | | | |
| 16 | 25 | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.2 | 0.3 | 0.4 | 1 | 1.9 | 3.3 | | | |
| 20 | 25 | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.4 | 0.4 | 0.9 | 1.6 | 3 | | | | |
| 25 | 25 | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 0.9 | 0.9 | 1.3 | 2.3 | | | | | |
| 32 | 15 | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 1.3 | 1.3 | 2.2 | | | | | | |
| 40 | 15 | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 1.2 | 1.2 | 2.1 | | | | | | |
| 40 | 15 | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 2.1 | | | | | | | | |

¹ The selectivity limit current I_{s1} results from the let-through I^2t -value of S 200/S 400 and the pre-arcing (melting) I^2t -value of a fuse acc. to IEC/EN 60269

Selective Main Circuit-Breaker series S 750 and S 750 DR

Short-circuit selectivity

Short-circuit discrimination (in kA) apply for combinations¹: fuse gL/gG – S 750 (DR) – S 200/S 400

| fuse: | | 63A gG | | | | 80 A gG | | | | 100 A gG | | | | ≥ 125 A gG | | | | |
|------------------|---------------|----------------|----|-----|-----|---------|----|----|----|----------|----|----|----|------------|----|----|----|----|
| | | S 750/S 750 DR | | | | | | | | | | | | | | | | |
| final circuit: | Char. | E / K | | | | | | | | | | | | | | | | |
| | I_{cn} [kA] | 25 | | | | | | | | | | | | | | | | |
| | I_n [A] | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | |
| S 200 S 400 E | C | ≤ 2 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | 3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | 4 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | B, C | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | C | 8 | 7 | 5 | 5 | 5 | 10 | 10 | 10 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | B, C | 10 | 7 | 5 | 5 | 5 | 10 | 10 | 10 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | 13 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | 16 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | 20 | 5 | 5 | 4.5 | 4.5 | 6 | 7 | 7 | 6.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | 25 | | 4.5 | 4.5 | 4 | | 7 | 6 | 6 | | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | 32 | | | 4 | 3.5 | | | 6 | 5.5 | | | 9 | 9 | | | 10 | 10 |
| | | 40 | | | | 3 | | | | 5 | | | | 8 | | | | 10 |

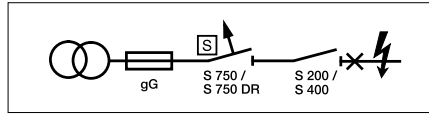
| fuse: | | 63A gG | | | | 80 A gG | | | | 100 A gG | | | | ≥ 125 A gG | | | | |
|------------------|---------------|----------------|-----|-----|-----|---------|----|----|-----|----------|----|----|----|------------|----|----|----|----|
| | | S 750/S 750 DR | | | | | | | | | | | | | | | | |
| final circuit: | Char. | E / K | | | | | | | | | | | | | | | | |
| | I_{cn} [kA] | 25 | | | | | | | | | | | | | | | | |
| | I_n [A] | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | |
| S 200 S 400 E | K, Z | ≤ 2 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | 3 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | 4 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 6 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| | 8 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| | 10 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| | 13 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| | 16 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| | 20 | 5 | 5 | 4.5 | 4.5 | 8 | 7 | 7 | 6.5 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| | 25 | | 4.5 | 4.5 | 4 | | 7 | 6 | 6 | | 10 | 10 | 10 | 10 | | 10 | 10 | |
| | 32 | | | 4 | 3.5 | | | 6 | 5.5 | | | 9 | 9 | | | 10 | 10 | |
| | 40 | | | | 3 | | | | 5 | | | | 8 | | | | 10 | |

¹ The selectivity limit current I_{s1} results from the let-through I^2t -value of S 750 (DR) plus S 200/S 400 and the pre-arcing (melting) I^2t -value of a fuse acc. to IEC/EN 60269

Selective Main Circuit-Breaker series S 750 and S 750 DR

Short-circuit selectivity

Short-circuit discrimination (in kA) apply for combinations¹: fuse gL/gG – S 750 (DR) – S 200/S 400



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| | | fuse: | | 63 A gG | | | | 80 A gG | | | | 100 A gG | | | | ≥ 125 A gG | | | |
|--------------------|------|---------------|-----|----------------|-----|-----|-----|---------|----|----|-----|----------|----|----|----|------------|----|----|----|
| final circuit: | | supply side: | | S 750/S 750 DR | | | | | | | | | | | | | | | |
| | | Char. | | E / K | | | | | | | | | | | | | | | |
| | | I_{cn} [kA] | | 25 | | | | | | | | | | | | | | | |
| | | I_n [A] | | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 |
| S 200 M S 400 M | C | 10 | ≤ 2 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 3 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 4 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 6 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 10 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | B, C | 10 | 8 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | C | | 10 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | B, C | | 13 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| | | | 16 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| | | | 20 | 5 | 5 | 4.5 | 4.5 | 8 | 7 | 7 | 6.5 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| | | | 25 | | 4.5 | 4.5 | 4 | | 7 | 6 | 6 | | 10 | 10 | 10 | | 15 | 15 | 15 |
| | | | 32 | | | 4 | 3.5 | | | 6 | 5.5 | | | 9 | 9 | | | 15 | 15 |
| | | | 40 | | | | 3 | | | | 5 | | | | 8 | | | | 14 |

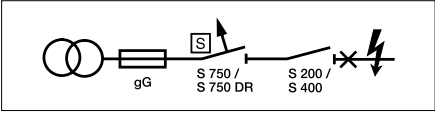
| | | fuse: | | 63 A gG | | | | 80 A gG | | | | 100 A gG | | | | ≥ 125 A gG | | | |
|--------------------|------|---------------|-----|----------------|-----|-----|-----|---------|----|----|-----|----------|----|----|----|------------|----|----|----|
| final circuit: | | supply side: | | S 750/S 750 DR | | | | | | | | | | | | | | | |
| | | Char. | | E / K | | | | | | | | | | | | | | | |
| | | I_{cn} [kA] | | 25 | | | | | | | | | | | | | | | |
| | | I_n [A] | | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 |
| S 200 M S 400 M | K, Z | 10 | ≤ 2 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 3 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 4 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 6 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 10 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 8 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 10 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | | | 13 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| | | | 16 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| | | | 20 | 5 | 5 | 4.5 | 4.5 | 8 | 7 | 7 | 6.5 | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| | | | 25 | | 4.5 | 4.5 | 4 | | 7 | 6 | 6 | | 10 | 10 | 10 | | 15 | 15 | 15 |
| | | | 32 | | | 4 | 3.5 | | | 6 | 5.5 | | | 9 | 9 | | | 15 | 15 |
| | | | 40 | | | | 3 | | | | 5 | | | | 8 | | | | 14 |

¹ The selectivity limit current I_{s1} results from the let-through I^2t -value of S 750 (DR) plus S 200/S 400 and the pre-arcing (melting) I^2t -value of a fuse acc. to IEC/EN 60269

Selective Main Circuit-Breaker series S 750 and S 750 DR

Short-circuit selectivity

Short-circuit discrimination (in kA) apply for combinations¹: fuse gL/gG – S 750 (DR) – S 200/S 400



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| final circuit: | fuse: | | 63 A gG | | | | 80 A gG | | | | 100 A gG | | | | ≥ 125 A gG | | | | |
|----------------|----------------------|--------------------|------------------|----|-----|-----|---------|----|----|----|----------|----|----|----|------------|----|----|----|----|
| | supply side: | | S 750 / S 750 DR | | | | | | | | | | | | | | | | |
| | Char. | | E / K | | | | | | | | | | | | | | | | |
| | I _{cn} [kA] | I _n [A] | 25 | | | | | | | | | | | | | | | | |
| | | | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | |
| S 200 P | C | ≤ 2 | 15 | 15 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | | 3 | 15 | 15 | 15 | 15 | 25 | 25 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | | 4 | 15 | 15 | 15 | 15 | 20 | 20 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | B, C | 6 | 10 | 10 | 10 | 10 | 17 | 16 | 15 | 14 | 25 | 25 | 20 | 20 | 25 | 25 | 25 | 25 | 25 |
| | C | 8 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 20 | 20 | 15 | 15 | 25 | 25 | 25 | 25 | 25 |
| | B, C | 25 | 10 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 20 | 15 | 15 | 15 | 25 | 25 | 25 | 25 |
| | | | 13 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 15 | 15 | 15 | 15 | 22 | 22 | 20 | 20 |
| | | | 16 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 12 | 12 | 10 | 10 | 22 | 22 | 20 | 18 |
| | | 15 | 20 | 5 | 5 | 4.5 | 4.5 | 8 | 7 | 7 | 6.5 | 12 | 12 | 10 | 10 | 20 | 20 | 20 | 18 |
| | | | 25 | | 4.5 | 4.5 | 4 | | 7 | 6 | 6 | | 10 | 10 | 10 | | 15 | 15 | 15 |
| | | | 32 | | | 4 | 3.5 | | | 6 | 5.5 | | | 10 | 10 | | | 15 | 15 |
| | 40 | | | | 3 | | | | 5 | | | | 9 | | | | | 15 | |

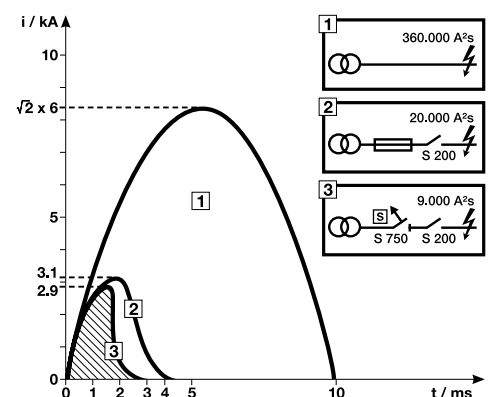
| final circuit: | fuse: | | 63 A gG | | | | 80 A gG | | | | 100 A gG | | | | ≥ 125 A gG | | | | |
|----------------|----------------------|--------------------|------------------|-----|-----|-----|---------|----|-----|----|----------|----|----|----|------------|----|----|----|----|
| | supply side: | | S 750 / S 750 DR | | | | | | | | | | | | | | | | |
| | Char. | | E / K | | | | | | | | | | | | | | | | |
| | I _{cn} [kA] | I _n [A] | 25 | | | | | | | | | | | | | | | | |
| | | | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | 35 | 40 | 50 | 63 | |
| S 200 P | 50 | ≤ 2 | 15 | 15 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | | 3 | 15 | 15 | 15 | 15 | 25 | 25 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | | 4 | 15 | 15 | 15 | 15 | 20 | 20 | 15 | 15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| | K, Z | 25 | 6 | 10 | 10 | 10 | 10 | 17 | 16 | 15 | 14 | 25 | 25 | 20 | 20 | 25 | 25 | 25 | 25 |
| | | | 8 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 20 | 20 | 15 | 15 | 25 | 25 | 25 | 25 |
| | | | 10 | 7 | 6 | 6 | 5 | 10 | 10 | 10 | 8 | 20 | 15 | 15 | 15 | 25 | 25 | 25 | 25 |
| | | 15 | 13 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 15 | 15 | 15 | 15 | 22 | 22 | 20 | 20 |
| | | | 16 | 6 | 6 | 6 | 5 | 9 | 8 | 8 | 7 | 12 | 12 | 10 | 10 | 22 | 22 | 20 | 18 |
| | | | 20 | 5 | 5 | 4.5 | 4.5 | 8 | 7 | 7 | 6.5 | 12 | 12 | 10 | 10 | 20 | 20 | 20 | 18 |
| | 25 | | 4.5 | 4.5 | 4 | | 7 | 6 | 6 | | 10 | 10 | 10 | | 15 | 15 | 15 | | |
| | 32 | | | 4 | 3.5 | | | 6 | 5.5 | | | 10 | 10 | | | 15 | 15 | | |
| | 40 | | | | 3 | | | | 5 | | | | 9 | | | | | 15 | |

¹ The selectivity limit current I_{st} results from the let-through I^2t -value of S 750 (DR) plus S 200/S 400 and the pre-arcing (melting) I^2t -value of a fuse acc. to IEC/EN 60269

Energy limitation

S 750 (DR) selective main circuit breakers operate in such a way that they support cascaded downstream mcbs when a short-circuit occurs. Its energy-limiting features preserve the installation and reduce harmful repercussions on the network of the operator to a minimum.

Independant of current rating of S 750 (DR), short-circuit selectivity of up to 10,000 A or even higher is available for the downstream miniature circuit-breakers.

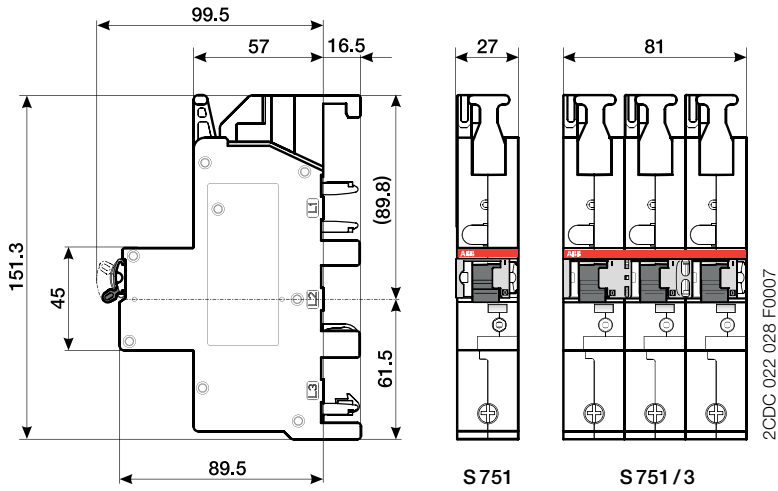


2CDC 022 234 F0007

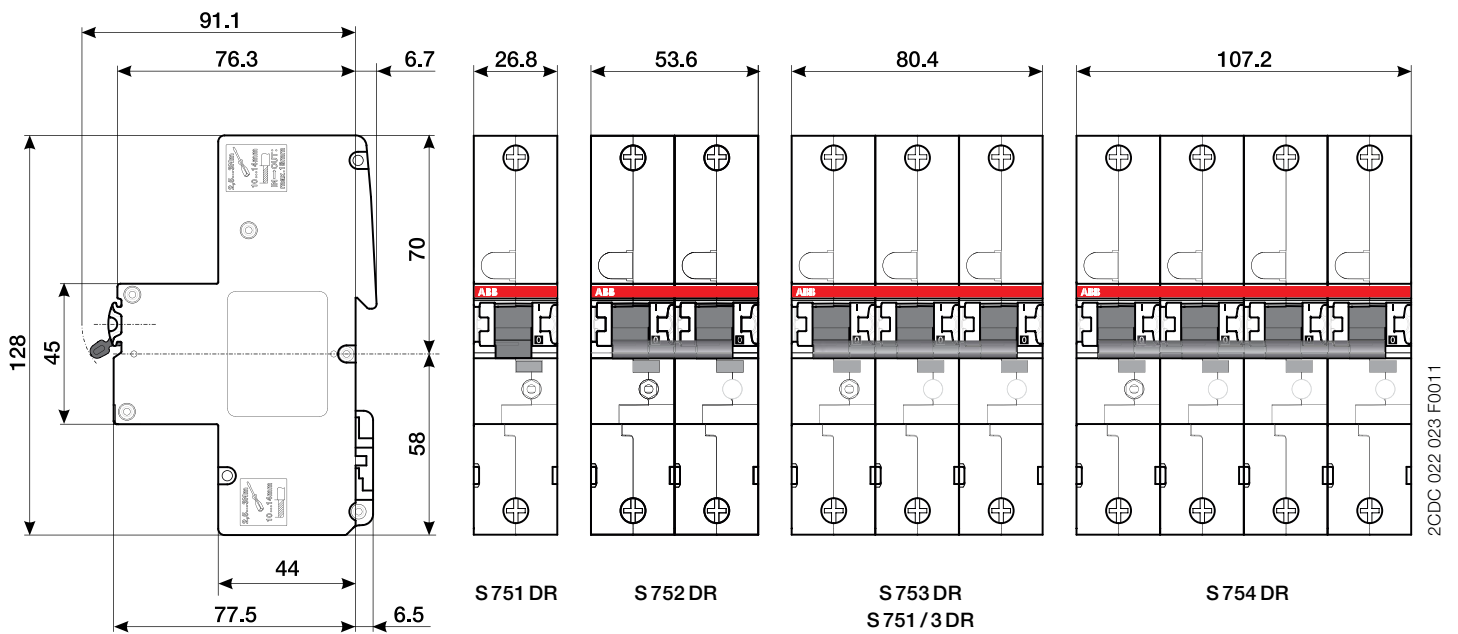
Selective Main Circuit-Breaker series S 750 und S 750 DR

Dimensional drawing

S 750



S 750 DR



Selective Main Circuit-Breaker series S 750 and S 750 DR

Order data S 750 for bus bar connection, Tripping characteristic E

Eselective

according to
DIN VDE 0641-21

25000



2CDC 021 207 F0007



2CDC 021 205 F0007

| No. of poles | rated current I_n/A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|--------------|-----------------------|------|------------|-----------------|-----------------|----------------|
|--------------|-----------------------|------|------------|-----------------|-----------------|----------------|

S751/3 unit 3 x single-pole, busbar connection at L1, L2 and L3

| | | | | | | |
|-----|----|------------|-----------------|--------|-----|---|
| 3x1 | 16 | S751/3-E16 | 2CDS781001R4162 | 660525 | 1.2 | 1 |
| 3x1 | 20 | S751/3-E20 | 2CDS781001R4202 | 660518 | 1.2 | 1 |
| 3x1 | 25 | S751/3-E25 | 2CDS781001R4252 | 660501 | 1.2 | 1 |
| 3x1 | 35 | S751/3-E35 | 2CDS781001R4352 | 660495 | 1.2 | 1 |
| 3x1 | 40 | S751/3-E40 | 2CDS781001R4402 | 660488 | 1.2 | 1 |
| 3x1 | 50 | S751/3-E50 | 2CDS781001R4502 | 660471 | 1.2 | 1 |
| 3x1 | 63 | S751/3-E63 | 2CDS781001R4632 | 660464 | 1.2 | 1 |

S751 single-pole, three-phase set, busbar connection at L1, L2, L3

| | | | | | | |
|---|----|----------|-----------------|---------|-----|--------|
| 1 | 16 | S751-E16 | 2CDS781001R3162 | 663922* | 1.2 | 1 Satz |
| 1 | 20 | S751-E20 | 2CDS781001R3202 | 663939* | 1.2 | 1 Satz |
| 1 | 25 | S751-E25 | 2CDS781001R3252 | 663946* | 1.2 | 1 Satz |
| 1 | 35 | S751-E35 | 2CDS781001R3352 | 663960* | 1.2 | 1 Satz |
| 1 | 40 | S751-E40 | 2CDS781001R3402 | 663977* | 1.2 | 1 Satz |
| 1 | 50 | S751-E50 | 2CDS781001R3502 | 663984* | 1.2 | 1 Satz |
| 1 | 63 | S751-E63 | 2CDS781001R3632 | 663991* | 1.2 | 1 Satz |

S751 single-pole, busbar connection at L1

| | | | | | | |
|---|----|-------------|-----------------|--------|-----|---|
| 1 | 16 | S751-E16 L1 | 2CDS781001R5162 | 698078 | 0.4 | 1 |
| 1 | 20 | S751-E20 L1 | 2CDS781001R5202 | 698092 | 0.4 | 1 |
| 1 | 25 | S751-E25 L1 | 2CDS781001R5252 | 698115 | 0.4 | 1 |
| 1 | 35 | S751-E35 L1 | 2CDS781001R5352 | 698139 | 0.4 | 1 |
| 1 | 40 | S751-E40 L1 | 2CDS781001R5402 | 698153 | 0.4 | 1 |
| 1 | 50 | S751-E50 L1 | 2CDS781001R5502 | 698573 | 0.4 | 1 |
| 1 | 63 | S751-E63 L1 | 2CDS781001R5632 | 698597 | 0.4 | 1 |

S751 single-pole, busbar connection at L2

| | | | | | | |
|---|----|-------------|-----------------|--------|-----|---|
| 1 | 16 | S751-E16 L2 | 2CDS781001R6162 | 698627 | 0.4 | 1 |
| 1 | 20 | S751-E20 L2 | 2CDS781001R6202 | 698641 | 0.4 | 1 |
| 1 | 25 | S751-E25 L2 | 2CDS781001R6252 | 698658 | 0.4 | 1 |
| 1 | 35 | S751-E35 L2 | 2CDS781001R6352 | 698672 | 0.4 | 1 |
| 1 | 40 | S751-E40 L2 | 2CDS781001R6402 | 698696 | 0.4 | 1 |
| 1 | 50 | S751-E50 L2 | 2CDS781001R6502 | 698719 | 0.4 | 1 |
| 1 | 63 | S751-E63 L2 | 2CDS781001R6632 | 698733 | 0.4 | 1 |

S751 single-pole, busbar connection at L3

| | | | | | | |
|---|----|-------------|-----------------|--------|-----|---|
| 1 | 16 | S751-E16 L3 | 2CDS781001R7162 | 698757 | 0.4 | 1 |
| 1 | 20 | S751-E20 L3 | 2CDS781001R7202 | 698771 | 0.4 | 1 |
| 1 | 25 | S751-E25 L3 | 2CDS781001R7252 | 698795 | 0.4 | 1 |
| 1 | 35 | S751-E35 L3 | 2CDS781001R7352 | 698818 | 0.4 | 1 |
| 1 | 40 | S751-E40 L3 | 2CDS781001R7402 | 698832 | 0.4 | 1 |
| 1 | 50 | S751-E50 L3 | 2CDS781001R7502 | 698856 | 0.4 | 1 |
| 1 | 63 | S751-E63 L3 | 2CDS781001R7632 | 698870 | 0.4 | 1 |

*EAN of the package unit

Selective Main Circuit-Breaker series S 750 and S 750 DR

Order data S 750 for DIN rail mounting, Tripping characteristic E

Eselective

according to
DIN VDE 0641-21

25000



2CDC 021 007 S0011

| No. of poles | rated current I_n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|----------------|-------------------------|--------------|-----------------|-----------------|-----------------|----------------|
| S751 DR | | | | | | |
| 1 | 16 | S 751 DR-E16 | 2CDH781001R0162 | 838061 | 0.35 | 3 |
| 1 | 20 | S 751 DR-E20 | 2CDH781001R0202 | 838078 | 0.35 | 3 |
| 1 | 25 | S 751 DR-E25 | 2CDH781001R0252 | 838085 | 0.35 | 3 |
| 1 | 35 | S 751 DR-E35 | 2CDH781001R0352 | 838092 | 0.35 | 3 |
| 1 | 40 | S 751 DR-E40 | 2CDH781001R0402 | 838108 | 0.35 | 3 |
| 1 | 50 | S 751 DR-E50 | 2CDH781001R0502 | 838139 | 0.35 | 3 |
| 1 | 63 | S 751 DR-E63 | 2CDH781001R0632 | 838207 | 0.35 | 3 |



2CDC 021 006 S0011

| No. of poles | rated current I_n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|--|-------------------------|----------------|-----------------|-----------------|-----------------|----------------|
| S751 DR/3 unit, 3 x single-pole | | | | | | |
| 3x1 | 16 | S 751 /3DR-E16 | 2CDH781001R2162 | 838788 | 1.05 | 1 |
| 3x1 | 20 | S 751 /3DR-E20 | 2CDH781001R2202 | 838801 | 1.05 | 1 |
| 3x1 | 25 | S 751 /3DR-E25 | 2CDH781001R2252 | 838825 | 1.05 | 1 |
| 3x1 | 35 | S 751 /3DR-E35 | 2CDH781001R2352 | 838849 | 1.05 | 1 |
| 3x1 | 40 | S 751 /3DR-E40 | 2CDH781001R2402 | 838863 | 1.05 | 1 |
| 3x1 | 50 | S 751 /3DR-E50 | 2CDH781001R2502 | 838887 | 1.05 | 1 |
| 3x1 | 63 | S 751 /3DR-E63 | 2CDH781001R2632 | 838900 | 1.05 | 1 |



2CDC 021 023 S0011

| No. of poles | rated current I_n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|----------------|-------------------------|--------------|-----------------|-----------------|-----------------|----------------|
| S752 DR | | | | | | |
| 2 | 16 | S 752 DR-E16 | 2CDH782001R0162 | 838245 | 0.7 | 2 |
| 2 | 20 | S 752 DR-E20 | 2CDH782001R0202 | 838252 | 0.7 | 2 |
| 2 | 25 | S 752 DR-E25 | 2CDH782001R0252 | 838269 | 0.7 | 2 |
| 2 | 35 | S 752 DR-E35 | 2CDH782001R0352 | 838276 | 0.7 | 2 |
| 2 | 40 | S 752 DR-E40 | 2CDH782001R0402 | 838283 | 0.7 | 2 |
| 2 | 50 | S 752 DR-E50 | 2CDH782001R0502 | 838313 | 0.7 | 2 |
| 2 | 63 | S 752 DR-E63 | 2CDH782001R0632 | 838382 | 0.7 | 2 |



2CDC 021 022 S0011

| No. of poles | rated current I_n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|----------------|-------------------------|--------------|-----------------|-----------------|-----------------|----------------|
| S753 DR | | | | | | |
| 3 | 16 | S 753 DR-E16 | 2CDH783001R0162 | 838429 | 1.05 | 1 |
| 3 | 20 | S 753 DR-E20 | 2CDH783001R0202 | 838436 | 1.05 | 1 |
| 3 | 25 | S 753 DR-E25 | 2CDH783001R0252 | 838443 | 1.05 | 1 |
| 3 | 35 | S 753 DR-E35 | 2CDH783001R0352 | 838450 | 1.05 | 1 |
| 3 | 40 | S 753 DR-E40 | 2CDH783001R0402 | 838467 | 1.05 | 1 |
| 3 | 50 | S 753 DR-E50 | 2CDH783001R0502 | 838498 | 1.05 | 1 |
| 3 | 63 | S 753 DR-E63 | 2CDH783001R0632 | 838566 | 1.05 | 1 |



2CDC 021 014 S0011

| No. of poles | rated current I_n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|----------------|-------------------------|--------------|-----------------|-----------------|-----------------|----------------|
| S754 DR | | | | | | |
| 4 | 16 | S 754 DR-E16 | 2CDH784001R0162 | 838603 | 1.4 | 1 |
| 4 | 20 | S 754 DR-E20 | 2CDH784001R0202 | 838610 | 1.4 | 1 |
| 4 | 25 | S 754 DR-E25 | 2CDH784001R0252 | 838627 | 1.4 | 1 |
| 4 | 35 | S 754 DR-E35 | 2CDH784001R0352 | 838634 | 1.4 | 1 |
| 4 | 40 | S 754 DR-E40 | 2CDH784001R0402 | 838641 | 1.4 | 1 |
| 4 | 50 | S 754 DR-E50 | 2CDH784001R0502 | 838672 | 1.4 | 1 |
| 4 | 63 | S 754 DR-E63 | 2CDH784001R0632 | 838740 | 1.4 | 1 |

Selective Main Circuit-Breaker series S 750 and S 750 DR

Order data S 750 for DIN rail mounting, Tripping characteristic K

K_{selective}

according to
DIN VDE 0641-21

25 000



2CDC 021 007 S0011

| No. of poles | rated current I _n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|----------------|----------------------------------|--------------|-----------------|-----------------|-----------------|----------------|
| S751 DR | | | | | | |
| 1 | 16 | S 751 DR-K16 | 2CDH781001R0467 | 838115 | 0.35 | 3 |
| 1 | 20 | S 751 DR-K20 | 2CDH781001R0487 | 838122 | 0.35 | 3 |
| 1 | 25 | S 751 DR-K25 | 2CDH781001R0517 | 838146 | 0.35 | 3 |
| 1 | 35 | S 751 DR-K35 | 2CDH781001R0547 | 838153 | 0.35 | 3 |
| 1 | 40 | S 751 DR-K40 | 2CDH781001R0557 | 838160 | 0.35 | 3 |
| 1 | 50 | S 751 DR-K50 | 2CDH781001R0577 | 838177 | 0.35 | 3 |
| 1 | 63 | S 751 DR-K63 | 2CDH781001R0607 | 838184 | 0.35 | 3 |



2CDC 021 006 S0011

| No. of poles | rated current I _n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|--|----------------------------------|-----------------|-----------------|-----------------|-----------------|----------------|
| S751 DR/3 unit, 3 x single-pole | | | | | | |
| 3x1 | 16 | S 751 /3 DR-K16 | 2CDH781001R2467 | 838795 | 1.05 | 1 |
| 3x1 | 20 | S 751 /3 DR-K20 | 2CDH781001R2487 | 838818 | 1.05 | 1 |
| 3x1 | 25 | S 751 /3 DR-K25 | 2CDH781001R2517 | 838832 | 1.05 | 1 |
| 3x1 | 35 | S 751 /3 DR-K35 | 2CDH781001R2547 | 838856 | 1.05 | 1 |
| 3x1 | 40 | S 751 /3 DR-K40 | 2CDH781001R2557 | 838870 | 1.05 | 1 |
| 3x1 | 50 | S 751 /3 DR-K50 | 2CDH781001R2577 | 838894 | 1.05 | 1 |
| 3x1 | 63 | S 751 /3 DR-K63 | 2CDH781001R2607 | 838917 | 1.05 | 1 |



2CDC 021 023 S0011

| No. of poles | rated current I _n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|----------------|----------------------------------|--------------|-----------------|-----------------|-----------------|----------------|
| S752 DR | | | | | | |
| 2 | 16 | S 752 DR-K16 | 2CDH782001R0467 | 838290 | 0.7 | 2 |
| 2 | 20 | S 752 DR-K20 | 2CDH782001R0487 | 838306 | 0.7 | 2 |
| 2 | 25 | S 752 DR-K25 | 2CDH782001R0517 | 838320 | 0.7 | 2 |
| 2 | 35 | S 752 DR-K35 | 2CDH782001R0547 | 838337 | 0.7 | 2 |
| 2 | 40 | S 752 DR-K40 | 2CDH782001R0557 | 838344 | 0.7 | 2 |
| 2 | 50 | S 752 DR-K50 | 2CDH782001R0577 | 838351 | 0.7 | 2 |
| 2 | 63 | S 752 DR-K63 | 2CDH782001R0607 | 838368 | 0.7 | 2 |



2CDC 021 022 S0011

| No. of poles | rated current I _n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|----------------|----------------------------------|--------------|-----------------|-----------------|-----------------|----------------|
| S753 DR | | | | | | |
| 3 | 16 | S 753 DR-K16 | 2CDH783001R0467 | 838474 | 1.05 | 1 |
| 3 | 20 | S 753 DR-K20 | 2CDH783001R0487 | 838481 | 1.05 | 1 |
| 3 | 25 | S 753 DR-K25 | 2CDH783001R0517 | 838504 | 1.05 | 1 |
| 3 | 35 | S 753 DR-K35 | 2CDH783001R0547 | 838511 | 1.05 | 1 |
| 3 | 40 | S 753 DR-K40 | 2CDH783001R0557 | 838528 | 1.05 | 1 |
| 3 | 50 | S 753 DR-K50 | 2CDH783001R0577 | 838535 | 1.05 | 1 |
| 3 | 63 | S 753 DR-K63 | 2CDH783001R0607 | 838542 | 1.05 | 1 |



2CDC 021 014 S0011

| No. of poles | rated current I _n / A | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|----------------|----------------------------------|--------------|-----------------|-----------------|-----------------|----------------|
| S754 DR | | | | | | |
| 4 | 16 | S 754 DR-K16 | 2CDH784001R0467 | 838658 | 1.4 | 1 |
| 4 | 20 | S 754 DR-K20 | 2CDH784001R0487 | 838665 | 1.4 | 1 |
| 4 | 25 | S 754 DR-K25 | 2CDH784001R0517 | 838689 | 1.4 | 1 |
| 4 | 35 | S 754 DR-K35 | 2CDH784001R0547 | 838696 | 1.4 | 1 |
| 4 | 40 | S 754 DR-K40 | 2CDH784001R0557 | 838702 | 1.4 | 1 |
| 4 | 50 | S 754 DR-K50 | 2CDH784001R0577 | 838719 | 1.4 | 1 |
| 4 | 63 | S 754 DR-K63 | 2CDH784001R0607 | 838726 | 1.4 | 1 |

Selective Main Circuit-Breaker series S 750 and S 750 DR

Order data accessories



SA 2

SK 0109 B 91

| No. of poles | Type | Order code | bbn 4016779 EAN | Weight 1 pc. kg | pack. unit pc. |
|-------------------|-------|--------------------|-----------------------|-----------------------|----------------------|
| Padlock | | | | | |
| with 2 keys | SA 2 | GFJ1 101 903 R0002 | 58770 4 | 0.02 | 10 |
| identical locking | SA 2i | GFJ1 109 999 R0001 | 96940 1 | 0.02 | 10 |

Contact

ABB STOTZ-KONTAKT GmbH

Eppelheimer Straße 82
69123 Heidelberg, Deutschland
Telefon: +49 (0) 6221 701-0
Telefax: +49 (0) 6221 701-1325
E-Mail: info.desto@de.abb.com

www.abb.de/stotz-kontakt

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