

# Selection of the Correct Type of RCCB

Simple household installations without electronic components	Household installations with electronic components (LCD TV, computers, printers, wash machines, ...)	Surge current proof 3kA (8/20µs). High immunity against unwanted tripping For S: ensuring selectivity in case of serially connected RCD's	Installations where 3f frequency converters and speed regulated machines are used (elevators, cranes...). PV systems on a.c. side, Charging stations for electric vehicles, UPS, computer data centres, X-ray devices...	Surge current proof 3kA (8/20µs) High immunity against unwanted tripping For S: ensuring selectivity in case of serially connected RCD's	Requirement for increased fire protection according to VDE 0664-400
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**AC type - Instantaneous**  
 $I_n = 25, 40, 63, 80 \text{ \& } 100\text{A}$   
 $I_{\Delta n} = 30, 100, 300, 500\text{mA}$   
 2p & 4p

**A type - Instantaneous**  
 $I_n = 25, 40, 63, 80 \text{ \& } 100\text{A}$   
 $I_{\Delta n} = 30, 100, 300, 500\text{mA}$   
 2p & 4p

**A type – K/G (short-time delay) & S (selective)**  
 $I_n = 25, 40, 63, 80 \text{ \& } 100\text{A}$   
 $I_{\Delta n} = 30, 100, 300\text{mA}$  for K and  $I_{\Delta n} = 100, 300\text{mA}$  for S  
 2p & 4p  
 K/G – short time delay: time delayed min. 10ms and max. 40ms  
 S – selective: time delayed min. 40ms and max. 150ms

**B type – Instantaneous (Tripping values are defined up to 1 kHz)**  
 $I_n = 25, 40, 63\text{A}$   
 $I_{\Delta n} = 30, 100, 300 \text{ mA}$   
 4p

**B type – K/G (short-time delay) & S (selective)**  
 $I_n = 25, 40, 63\text{A}$   
 $I_{\Delta n} = 30, 100, 300\text{mA}$  for K and  $I_{\Delta n} = 100, 300\text{mA}$  for S  
 4p  
 K/G – short time delay: time delayed min. 10ms and max. 40ms  
 S – selective: time delayed min. 40ms and max. 150ms

**B+ type – Instantaneous (Tripping values are defined up to 20kHz and they are below 420mA) according to VDE 0664-400**  
 $I_n = 25, 40, 63\text{A}$   
 $I_{\Delta n} = 30, 100, 300 \text{ mA}$   
 4p



Computer data centres

