



## SAFETEC B(R) TCG



- Category IEC / EN / VDE: Class I, II / Type 1, 2 / B, C
- Location of use: Main distribution boards
- Network systems: TN-S, TN-C, IT, TT
- Protection modes: L/N - PE, L - PEN
- Protective elements: High energy MOV and GDT
- Surge discharge rating:  $I_{imp} = 12.5\text{kA}$
- Safety: TOV immunity
- Leakage current: NO leakage current (TCG)
- Housing: Compact design
- Complies with: IEC/EN 61643-11, UL 1449 3rd Ed.



## Technical data

Type	SAFETEC B(R) 12.5/xxx TCG		
	150	275	440
<b>Electrical characteristics</b>			
Max. continuous operating voltage (AC/DC)	$U_c$	150/200V	275/350V
Nominal discharge current (8/20)	$I_n$	12.5kA	
Max. discharge current (8/20)	$I_{max}$	50kA	
Impulse current (10/350)	$I_{imp}$	12.5kA	
Specific energy	W/R	39kJ/Ω	
Charge	$Q$	6.25As	
Protection level	$U_p$	< 0.65kV	< 1.1kV
Residual voltage at 5kA (8/20)	$U_{res}$	< 0.55kV	< 0.8kV
Follow current	$I_{fi}$	NO	
Response time	$t_A$	< 25ns	
Thermal protection		YES	
Back-up fuse (if mains > 250A)		250A gL	
TOV immunity (withstand for unlimited time up to)	$U_T$	300V	700V
<b>Mechanical characteristics</b>			
Terminal screw torque		max. 3.0Nm	
Temperature range		- 40°C .... + 80°C	
Terminal cross section		35mm <sup>2</sup> (solid) / 25mm <sup>2</sup> (stranded)	
Mounting		35mm DIN rail, EN 60715	
Degree of protection		IP 20	
Housing material		thermoplastic; extinguishing degree UL 94 V-0	
Indication of disconnector operation		red flag	
Remote contacts (RC)		YES	
Contact ratings		AC: 250V/0.5A; 125V/3A	
Terminal cross section		max. 1.5mm <sup>2</sup>	
Remote terminal torque		0.25Nm	

## Ordering information

$U_c$	150	275	440
Ordering code SAFETEC B 12.5/xxx TCG	54.0146	54.0148	54.0150
Ordering code SAFETEC BR 12.5/xxx TCG (with remote contacts)	54.0147	54.0149	54.0151

TC solution available on request