

SAFETEC B(R) 25 WT TCG



- Category IEC / EN: Class I, II / Type 1, 2
- Location of use: Main distribution boards
- Network systems: TN-S, TN-C, IT, TT (only L-N)
- Protection modes: L/N - PE, L- PEN, L-N
- Protective elements: High energy MOV and GDT
- Surge discharge rating: $I_{imp} = 25kA$
- Safety: TOV withstand
- Leakage current: NO leakage current (TCG)
- Housing: Compact design
- Complies with: IEC 61643-11:2011, EN 61643-11:2012;



Technical data

Type

SAFETEC B(R) 25/xxx WT TCG

440

750

● Electrical characteristics

Nominal AC voltage	U_o	400V 50/60Hz	690V 50/60Hz
Max. continuous operating voltage (AC/DC)	U_c	440/580V	750/1000V
Nominal discharge current (8/20)	I_n	25kA	
Max. discharge current (8/20)	I_{max}	80kA	
Impulse current (10/350)	I_{imp}	25kA	
Total discharge current (10/350)	I_{total}	25kA	
Specific energy	W/R	156kJ/Ω	
Charge	Q	12.5As	
Protection level	U_p	< 1.9kV	< 2.5kV
Residual voltage at 5kA (8/20)	U_{res}	< 1.4kV	< 2.1kV
Follow current	I_{fi}	NO	
Response time	t_A	< 25ns	
Thermal protection		YES	
Back-up fuse (if mains > 250A)		250A gG/gL	
Short-circuit current rating	I_{SCCR}	25kA/50Hz	
TOV withstand 5s	U_T	580V	1000V
TOV withstand 120min	U_T	765V	1320V
Number of ports		1	

● Mechanical characteristics

Temperature range	T_a	- 40°C + 70°C	
Permissible humidity	RH	5%...95%	
Terminal screw torque	M_{max}	3.0Nm	
Conductor cross section		35mm ² (solid) / 25mm ² (stranded)	
AWG conductor cross section		2 AWG (solid) / 3 AWG (stranded)	
Mounting		35mm DIN rail, EN 60715	
Degree of protection		IP 20	
Housing material		thermoplastic; extinguishing degree UL 94 V-0	
Indication of thermal disconnecter operation		red flag	
Remote contacts (RC)		YES	
Contact ratings		AC: 250V/0.5A; 125V/3A	
Terminal cross section		max. 1.5mm ²	
Remote terminal torque		0.25Nm	

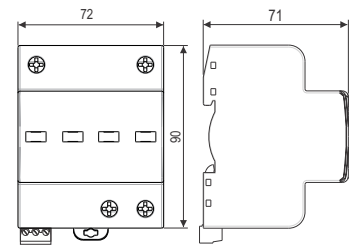
Ordering information

U_c	440	750
Ordering code SAFETEC B 25/xxx WT TCG	54.0592	54.0594
Ordering code SAFETEC BR 25/xxx WT TCG (with remote contacts)	54.0593	54.0595

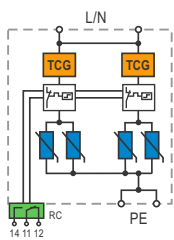
Dimensions, Internal configuration, Weight, Packaging

SAFETEC B(R) 25/xxx WT TCG

Dimensions



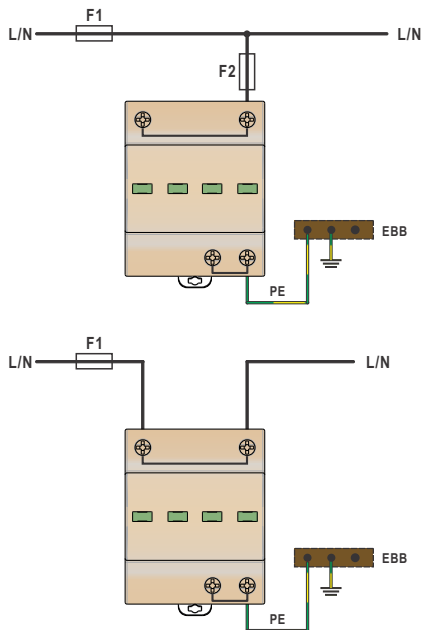
Internal configuration



SAFETEC B 25/xxx WT TCG	440	750
Dimensions DIN 43880	4TE	
Weight per unit	692g	800g
SAFETEC BR 25/xxx WT TCG	440	750
Dimensions DIN 43880	4TE	
Weight per unit	697g	805g
Packaging dimensions (single unit)	109 x 76.5 x 80mm	
Min. packaging quantity	3 pcs.	

Network connections

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 F1 > 250A gG/gL	→	 F2 = 250A gG/gL
 F1 ≤ 250A gG/gL	→	 F2