

# WT PROTEC BE(R) 12.5/750

Single-pole  
Lightning and Surge Arrester  
 $I_{imp} = 12.5\text{kA (10/350)}$

Category IEC / EN / VDE:	Class I, II / Type 1, 2 / B+C
Location of use:	Main distribution boards
Protection modes:	L/N - PE
Protective element:	High Energy MOV
High surge discharge ratings:	$I_{imp} = 12.5\text{kA}$
Housing:	Compact design



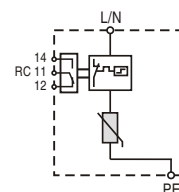
The E types High Energy Varistors are heavy-duty metal oxide varistors designed mainly for industrial applications. They offer excellent surge protection for various electronic equipment such as: traffic and railway signal systems, wind turbines, waterworks, automatic control devices for power distribution, oil drilling and mining equipment (dredgers, cranes, etc.). The E housings offer excellent protection also when they are exposed to different kinds of vibrations, dust, moisture, etc. The advantages of the E Series are: rigid terminals for good wire contact, solid plastic housing for secure mounting, higher insulation resistance (polyurethane filling and plastic housing).

## Technical data

Type	WT PROTEC BE(R) 12.5/750	
In accordance with	IEC-61643-1	
Max. continuous operating voltage (AC/DC)	$U_C$	750/1100V
Nominal discharge current (8/20)	$I_n$	20kA
Max. discharge current (8/20)	$I_{max}$	40kA
Impulse current (10/350)	$I_{imp}$	12.5kA
Specific energy	39kJ/Ω	
Charge	6.25As	
Protection level	$U_p$	< 2.5kV
Residual voltage at $I_{imp}$	$U_{res}$	< 2.0kV
Follow current	$I_f$	NO
Response time	$t_A$	< 25ns
Residual current at $U_C$	$I_{PE}$	< 2.5mA
Thermal protection	YES	
Terminal screw torque	max. 4Nm	
Back-up fuse (if mains > 250A)	250A gL	
Short-circuit withstand current	25kA / 50Hz	
Temperature range	- 40°C ..... + 80°C	
Housing material	thermoplastic; extinguishing degree UL 94 V-0	
Weight per unit	518g	
Ordering code	510 602	
<b>WT PROTEC BE(R) 12.5/750 (with remote contacts)</b>		
Remote contacts	YES	
Contact ratings	AC: 250V/0.5A; 125V/3A	
Terminal cross section	max. 1.5mm <sup>2</sup>	
Remote terminal torque	0.25Nm	
Weight per unit	520g	
Ordering code	510 603	

## Connection diagram

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## Selection of back-up fuse

