

Technical specification

Electrical specification	NEW ESP 690/25/WT	NEW ESP 690/12.5/WT
Nominal voltage - Phase-Neutral U_0 (RMS)	690 V	
Maximum voltage - Phase-Neutral U_c (RMS/DC)	750 V/1000 V	
Short circuit withstand capability	25 kA/50 Hz	
Max. back-up fuse (see installation instructions)	250 A	
Leakage current (to earth)	< 3.5 mA	< 2.5 mA
Volt free contact	Screw terminal	
- current rating	0.5 A	
- nominal voltage (RMS)	250 V	

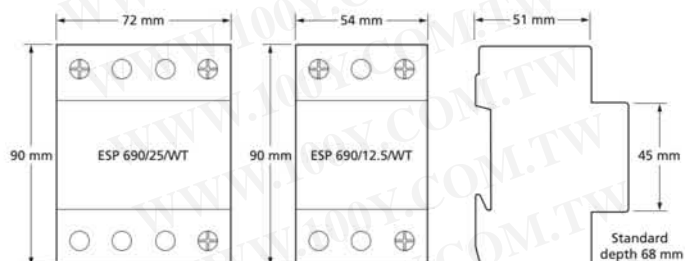
Transient specification	ESP 690/25/WT	ESP 690/12.5/WT
Type 1 (BS EN/EN), Class I (IEC)		
Nominal discharge current $8/20 \mu s$ (per mode) I_n	40 kA	20 kA
Let-through voltage U_p at I_n^1	< 2.5 kV	< 2.5 kV
Impulse discharge current $10/350 \mu s$ I_{imp} (per mode) ²	25 kA	12.5 kA
Let-through voltage U_p at I_{imp}^1	< 2.0 kV	< 2.0 kV
Type 2 (BS EN/EN), Class II (IEC)		
Nominal discharge current $8/20 \mu s$ (per mode) I_n	40 kA	20 kA
Let-through voltage U_p at I_n^1	< 2.5 kV	< 2.5 kV
Maximum discharge current I_{max} (per mode) ²	80 kA	40 kA

Mechanical specification	ESP 690/25/WT	ESP 690/12.5/WT
Temperature range	-40 to +80 °C	
Connection type	Screw terminal	
Conductor size (stranded)	25 mm ²	
Earth connection	Screw terminal	
Volt free contact	Connect via screw terminal with conductor up to 1.5 mm ² (stranded)	
Degree of protection (IEC 60529)	IP20	
Case material	Thermoplastic, UL94 V-0	
Mounting	Indoor, 35 mm top hat DIN rail	
Weight - unit	0.5 kg	0.33 kg
- packaged	0.6 kg	0.43 kg
Dimensions to DIN 43880 - HxDxW ³	90 mm x 68 mm x 72 mm (4TE)	90 mm x 68 mm x 54 mm (3TE)
- per module	90 mm x 68 mm x 216 mm (total: 3 x ESP690/25/WT)	90 mm x 68 mm x 162 mm (total: 3 x ESP690/12.5/WT)
- for 3ph TN-C supplies	90 mm x 68 mm x 288 mm (total: 4 x ESP 690/25/WT)	90 mm x 68 mm x 216 mm (total: 4 x ESP 690/12.5/WT)
- for 3ph TN-S supplies		

¹ The maximum transient voltage let-through of the protector throughout the test, per mode.

² The electrical system, external to the unit, may constrain the actual current rating achieved in a particular installation.

³ The remote signal contact (removable) adds 10 mm to height.



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