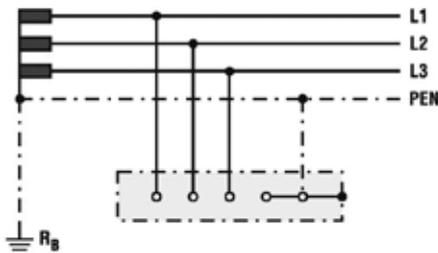


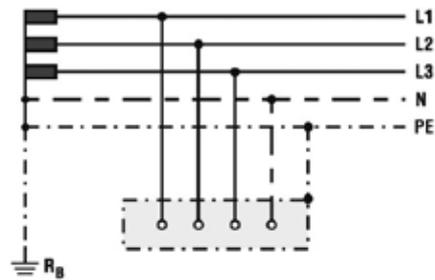
Surge arresters – ETITEC

ETITEC surge arresters are intended for protection of electrical installations and devices against overvoltage effects, which may occur in atmospheric discharges and switching overvoltages. The main part of surge arrester is ZnO non-linear varistor. Its main characteristic is ohmic nonlinearity, which depends strongly on the applied voltage at the clamps. All arresters have modular construction, a special feature is interchanging varistor part and visual signalization for varistor thermal failure. The signalization performed with a red flag, which appears when failure occurs. The models with RC mark are equipped with auxiliary contacts for signalization. ETI also provides SPD protection for PV systems - see Green Protect catalogue.

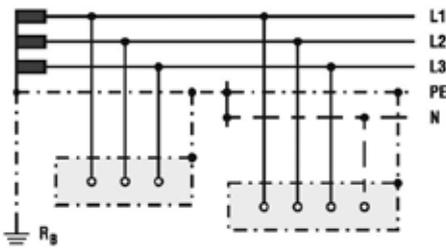
Common power distribution systems (Europe)



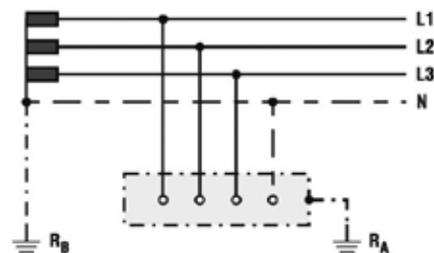
TN-C system



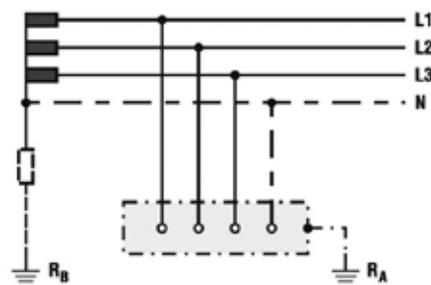
TN-S system



TN-C-S system



TT system



IT system

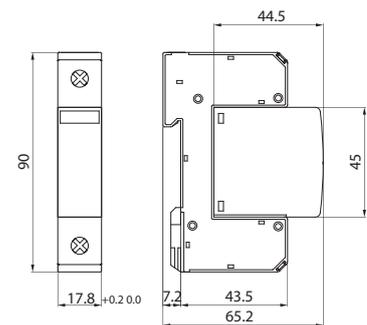
Surge arresters group D

Technical data ETITEC D	
Type	275 440
In accordance with	IEC-61643-1
Category IEC / VDE	III / D
Max. continuous operating voltage (AC/DC) U_c	275/350 V 440/580 V
Combination wave(1.2/50-8/20) U_{oc}/I_{sc}	10 kV/5 kA 10 kV/5 kA
Max. discharge current (8/20) I_{max}	10 kA 10 kA
Protection level U_p - at U_{oc}/I_{sc}	1,4 kV 1,8 kV
Follow current I_f	-
Response time t_A	< 25 ns
Residual current at U_c IPE	< 1,5 mA
Thermal decoupler	✓
Torque	max. 4.5Nm
Back-up fuse (if mains > 125A)	125 A gL
Short-circuit withstand	10 kA / 50 Hz
Temperature range	- 40°C ... +80°C
Cross-section of connection wire	single-strand 35 mm ² ; multi-strand 25 mm ²
Mounting	indors on top hat fixing rail 35mm
Degree of protection	IP 20
Casing material	thermoplastic; extinguishing degree UL 94 V-0
Dimensions	DIN 43880 1 TE
Additional data for ETITEC D-RC	
Remote signalisation	✓
Switching capability	AC: 250 V/0.5 A; 125 V/3 A
Cross-section of connection wire	max. 1.5 mm ²
Torque	0,25 Nm

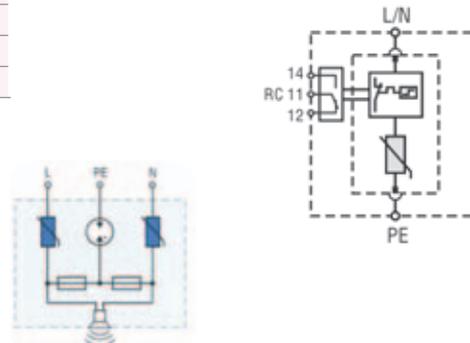
Technical data ETITEC D 255/3 MINI	
Max. continuous operating voltage (AC/DC) U_c	255V AC
Rated voltage U_n	230V AC
Combination wave(1.2/50-8/20) U_{oc}/I_{sc}	6kV/3kA
Response time t_A	100 ns
Protection level U_p - at I_n	≤ 0,8 kV
Temperature range	-20°C ... +50°C
Category IEC / VDE	III / D
Terminal cross section	1,5 mm ²
Back-up fuse (gG)	16A

Technical data ETITEC FILT D	
In accordance with	IEC-61643-1
Category IEC / VDE	III / D
Connection:	TN-S, TT
Protecting:	L/N-PE
Protective elements:	GDT, MOV & EMI filter
Max. continuous operating voltage (AC/DC) U_c	275/50 Hz
Combination wave(1.2/50-8/20) U_{oc}/I_{sc}	6kV/3kA
Max. Load current I_l	8A
Protection level U_p	≥800V
Asymmetrical attenuation	<70 dB at 5MHz
Terminal cross section	1,5 mm ² (stranded)
Indication	Light
Housing	Thermoplastic
Dimensions (w*h*d)	33*90*57mm

ETITEC D is a surge arrester for indoor application. Group D surge protection is in accordance with VDE class D. This protection corresponds to IEC category III. The protection should be installed immediately before the protected load. This is protection against indirect lightning strikes. In case of permanent arrester damage, thermal protection is activated, which signalizes faulty arrester. Consequentially only the varistor overvoltage insert has to be replaced. The basic casing remains on the top hat fixing DIN rail.



ETITEC D RC



ETITEC FILT D 20/275F 8A G is an electromagnetic interference (EMI) and overvoltage protective device of class III. It is designed for complete protection and is installed directly in front of protected devices on DIN rail. Protected electrical device is safe against effects of overvoltage, electrostatic voltage and electromagnetic interferences. These disturbances, which are present in all electrical systems, are caused by other electrical devices, by switching manoeuvres, by defects in electrical network and by other activities, such as welding. Applications: Protecting devices such as: TV, PC, Server, Control and regulation devices,..

