

## IEC 61643-11 EN 61443-11

- Each surge arrester in the range has a specific application:
  - Incoming protection (type 2):
  - The TOWSP-C40/1 is recommended for a high risk level
  - Secondary protection (type 2 or 3):
  - The TOWSP-D10/1 ensures secondary protection of loads to be protected and is placed in cascade with the incoming surge arresters. This surge arrester is required when the loads to be protected are at a distance of more than 10 m from the incoming surge arrester.

The TOWSP surge arresters with "r" indication have remote transfer of the information: "cartridge to be replaced".

TOWSP withdrawable surge arresters allow quick replacement of damaged cartridges. Type 2 surge arresters are tested with a 8/20 as current wave. Type 3 surge arresters are tested with a 1.2/50 as and 8/20 as combined wave.

### Main

Product or component type	Surge arresters
Device application	Load Protection
Operating frequency	50/60 Hz
Operating voltage (Ue)	1000V (+/- 10 %) DC
Permanent operating current (Ic)	< 1 mA
Response time	< 25 ns
Short circuit withstand (Iscsr)	50 kA (50 Hz)

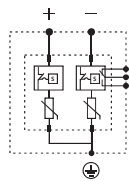
### Complementary

Surge arrester class type	Type 2
Surge arrester technology	MOV
[In] nominal discharge current	20 kA
[Imax] maximum discharge current	40 kA
[Ucpv] maximum continuous operating voltage	Differential mode : 1000 V L+/LCommon mode : 1000 V L+/PE Common mode : 1000 V L-/PE
[Up] voltage protection level	<= 3.9 kV type 2 common mode L+/PE <= 3.9 kV type 2 common mode L-/PE <= 3.9 kV type 2 differential mode L+/L
Disconnecter device type	Integrated disconnecter
Local signalling	Flag color: white/red
Signalling circuit voltage	AC : 250 V 50/60 Hz
Signalling output current	0.25 A
Mounting mode	Clip-on
Mounting support	DIN rail
9 mm pitches	6

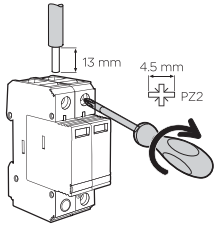


### Environment

Standards	EN 50539-11 : 2013 UTE C 61740-51
Product certifications	CE
IP degree of protection	On front face : IP40 On terminal : IP20
IK degree of protection	IK03
Relative humidity	5...95 %
Operating altitude	2000 m
Ambient air temperature for operation	-25...60 °C
Ambient air temperature for storage	-40...85 °C

## Catalogue numbers

Rated discharge current (I <sub>max</sub> )	Nominal discharge current (I <sub>n</sub> )	Type of protection	Network
40 kA	15 kA	TOWSP-C40/2/DC	
High risk level		Incoming	Secondaring
10 kA	2.5 kA	TOWSP-D10/2	
Secondary protection: placed near the loads to be protected when they are at a distance of more than 10 m from the incoming surge arrester			

## Connection

Type	Tightening torque	Copper cables	Flexible or ferrule
			
TOWSP-D20	2.5 N.m	2.5 to 25 mm <sup>2</sup>	4 to 16 mm <sup>2</sup>

## Weight ( g )

Surge Arrester	
Type	TOWSP-C40/2/DC
2P	260

## Contractual warranty

Warranty period	2 Years
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## Dimensions (mm)

