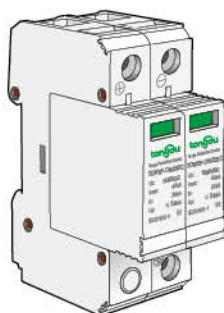




TOWSP-DC/C40/2 Surge Arresters



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)

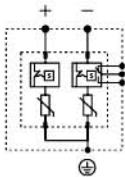
Complementary

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 disconnector
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

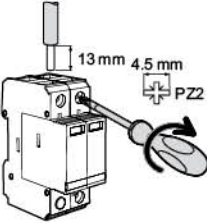


Environment

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 _{max})	Nominal discharge current (I _n)	Type of protection		Network
		Incoming	Secondaring	
TOWSP-C40				
40 kA	15 kA	TOWSP-C40/2/DC		
High risk level				
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	
		Rigid	Flexible or ferrule
			
TOWSP-D20	2.5 N.m	2.5 to 25 mm ²	4 to 16 mm ²

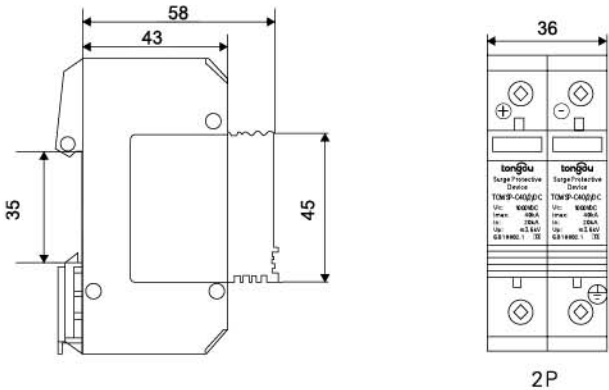
Weight (g)

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

Contractual warranty

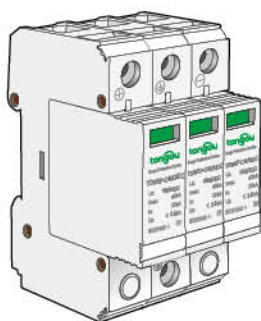
Warranty period	2 Years
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Dimensions (mm)





TOWSP-DC/C40/3 Surge Arresters



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)

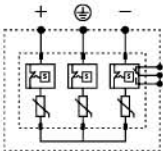
Complementary

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

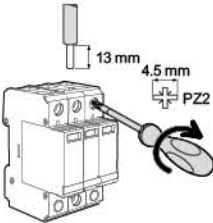


Environment

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 (Imax)	Nominal discharge current (In)	Type of protection		Network
		Incoming	Secondaring	
TOWSP-C40				
40 kA High risk level	15 kA	TOWSP-C40/3/DC		
10 kA				
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	2.5 kA	TOWSP-D10/3		

Connection

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

Weight (g)

Surge Arrester	
Type	TOWSP-C40/3/DC
3P	300

Contractual warranty

Warranty period	2 Years
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Dimensions (mm)

