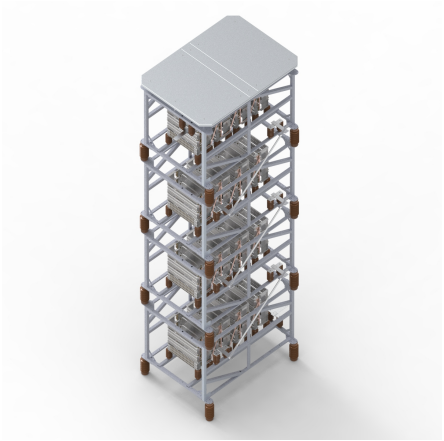
CSN® discharge resistors

DESCRIPTION



CSN® discharge resistors are used in electronic circuits to safely discharge energy storage devices such as capacitors or batteries. Their main function is to discharge the electrical energy stored in the energy storage device quickly and in a controlled manner as soon as the voltage source is disconnected from the circuit or when the circuit is switched off.

Therefore, in addition to a high dielectric strength, a high energy absorption capacity is of particular importance.

CSN® discharge resistors are designed and manufactured individually according to customer specifications and application.

PRODUCT ADVANTAGES

- Technically mature, proven design for outdoor or indoor operation
- Optimised design for every current and load duration
- Safe control of all operating voltages, even under the most difficult ambient conditions
- High long-term stability
- High creepage distances possible

TECHNISCHE DATEN

Amount of energy absorbed (MJ)	Customised (already supplied up to 100 MJ)
Insulation level	Customised (already supplied up to 1675 kV_{BIL})
Active elements	- Resistance fabric (CSN® Schniewindt mesh) - Wire meander - Belt elements
Active material	selectable depending on requirement profile
Cooling	air-cooled
Protection classes	according to requirements (IP00 - IPX3)

PREN index (Pitting Resistance Equivalent Number)	0 to > 50 (seawater resistant)
Voltage type	Alternating current (AC) and direct current (DC)
Ambient conditions	Reliable operation possible under difficult conditions in the following areas: - Seismic - wind - pollution - Temperature influences - Ice and snow loads
Corrosivity categories	CI - C5 according to DIN EN ISO I2944
Type of connection and connections	- Insulators (porcelain or composite) - Feedthrough - Connection pads - screws - stranded wire - etc.