

The DEHN logo is positioned in the top right corner of the image. It features the word "DEHN" in a bold, white, sans-serif font, flanked by two white lightning bolt symbols pointing outwards.

Decoupler DASD

Robust and powerful

DASD 45 LP 100 T

DEHN Advanced Solid-State Decoupler

Protect employees, limit overvoltages, avoid AC corrosion

The powerful decoupling unit DASD provides permanent protection in case of overvoltages (lightning strikes, temporary, long-duration). Dangerous AC voltages are limited to a level that is safe for people and systems.

Master external voltages

Lightning strikes, high-voltage lines and electric railways generate external voltages that lead to impermissible overvoltages and AC corrosion on the pipeline.

DASD offers reliable protection here. Even long-duration AC voltages are limited to safe values without negatively affecting the cathodic protection potential (DC potential) across the pipeline.

Safety for employees

DASD protects people working on pipelines against dangerous touch voltages.

Available anywhere

DASD does not require an external power supply. The decoupler can therefore be used anywhere – even in places where, depending on the situation, there is a particularly high risk of external voltages, potential changes or stray currents.

Impressive in tough conditions

DASD can be installed in harsh environments thanks to its robust housing – IP68 degree of protection (dust- and waterproof). Its high discharge capacity of 3.7 kA (temporary) provides a reassuring safety reserve.

Easy testing

Particularly practical during maintenance: Functionality is easy to check via the integrated test socket.



Technical data

Part No	923 402
Type	DASD 45 LP 100 T
Discharge current (transient) (10/350 μ s)	75 kA
Discharge current (transient) (8/20 μ s)	100 kA
Discharge current (temporary) (50 Hz, 60 Hz)	5.0 kA _{rms} (up to 40 ms)
Discharge current (temporary) (50 Hz, 60 Hz)	3.7 kA _{rms} (up to 200 ms)
Discharge current (temporary) (50 Hz, 60 Hz)	2.0 kA _{rms} (up to 600 ms)
Discharge current (long-duration) (50 Hz, 60 Hz)	45 A _{rms}
Max. permissible DC voltage	-2 V / +1 V
Max. leakage current (20 °C)	< 20 μ A
Operating temperature range (TU)	-45 °C ... +65 °C
Degree of protection	IP68
Dimensions	110 mm x 420 mm

DASD 45 LP 100 T

Highlights

- **Permanent safety**
for pipelines and people
- **Less effort**
involved in installation and maintenance
- **Easy functional test**
via test socket
- **Reliable protection**
in case of transient, temporary and long duration overvoltage
- **IP68 housing**
water and dust-proof
- **High discharge capacity**
75 kA (10/350 μ s)
100 kA (8/20 μ s)
3.7 kA (50 Hz / 200 ms)

More information at:



de.hn/decoupler-en

DEHN protects.
Surge Protection
Lightning Protection
Safety Equipment

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