

Product information

AC-Drain Unit ABL-100



The growth in shared usage of supply pipelines together with high voltage grids or crossings and parallel channels to railway systems is increasingly causing sizable alternating current couplings in the pipelines. These high currents can sometimes lead to fatal accidents, must be drained to provide contact protection. At the same time, however, the DC properties, which are important for cathodic protection, must not be impaired. Our high-capacity AC drain units provide low-ohmic discharge, especially for standard frequencies between 16.6 and 50Hz.

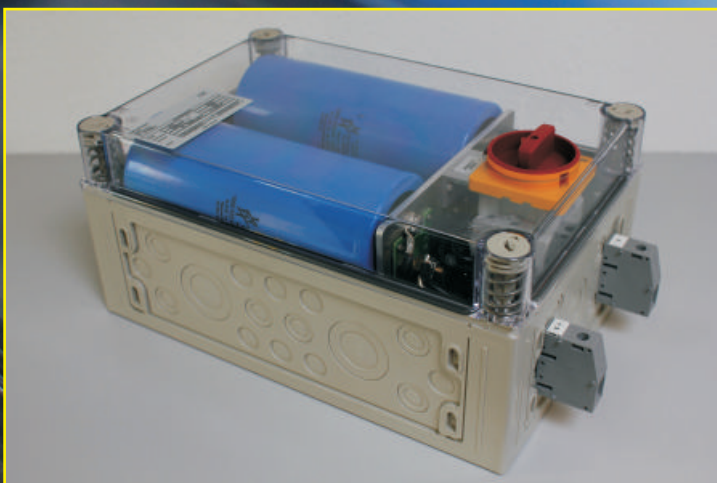
AC drain units

Highlights

- available in 65A / 80A / 100A classes
- proof voltage up to -27V (required e.g. for CP measurements)
- designed for optimal discharge of unwanted alternating currents with frequencies from 16.6 to 50Hz
- compact design (approx. 380x250x190)

Take the safe option.

To ensure a long lifespan, several special high-capacitance condensers are connected in parallel and fitted with a protective circuit. In place of a "hard" overvoltage protector, an effective discharge circuit is used. A parallel connection is an option to double the maximum discharge current.



Version with lead-through terminals

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When are AC drain units used?

Essentially, all operators of pipelines must provide evidence of prevention of unacceptably high contact voltages. The relevant regulations and standards specify when an inspection of the effects of high voltage must be carried out. AC drain units are normally used here as counter-measures. You are in the best hands with us when it comes to carrying out the relevant inspections and planning, supplying and properly installing the necessary counter-measure.

Technical Data (ABL-100):

AC rated current:	100 A
Residual voltage at 100A / 50Hz	< 250mV~ , typ. 180mV~
Residual voltage at 100A /16,6Hz	< 500 mV~, typ. 400mV~
DC leakage current @ -1VDC	< 1 mA, typ. 0,3mA
DC leakage current @ -27VDC	< 10 mA, typ. 2,5mA
Peak current (0,1 s)	1 kA
Surge current (8 us)	3 kA
Limit voltage anod.	< 1 V, typ. 0,6V
Limit voltage cathod.	< -27 V
Maximum voltage cathod.	-35V
Rated capacitance	3 F
Cpconnection terminals	screw terminals, up to 50mm ²
Capacity tolerance	+/- 20 %
Temperature range	-40 bis +85 °C

