CAPDIS-S2_HV (R4.5)

Capacitive Voltage Detecting Systems VDIS with Relay Contacts

The **CAPDIS-S2_HV (R4.5)** is an integrated Voltage Detecting Systems for checking for absence of voltage in high voltage switchgear according to IEC 62271-213:2021 (or IEC 61243-5) with integrated three-phase continuous indication and Signaling outputs.

Properties

Voltage Detecting Systems VDIS for high voltage (52 - 480 kV)
Testing for absence of voltage in high voltage switchgear according to IEC 61243-5 or IEC 62271-213 with integrated three-phase continuous display.

Maintenance-free due to self-monitoring, fail-safe
No periodic re-testing according to IEC 61243-5 or IEC 62271-213 u. BGV A3 required, as the device permanently monitors the response threshold and displays it with a three-stage voltage level indicator (half, full and outlined lightning arrow).

Integrated self-test function
No external test device is required to test for absence of voltage. Integrated function test by means of test button, in accordance with patent DE 103 04 396. Clear display for primary voltage present and not present.

Relay outputs and LED displays (CAPDIS-S2_HV)
For remote monitoring of the voltage states, two signal relays [changeover contacts] are integrated, which are operated with auxiliary voltage. The status of the relays is additionally indicated via LEDs in the front.

Integrated V-interface
For further processing of the voltage signals via a smart grid system[e. E.g. IKI-50, IKI-22); connection via optional Y-cable.

Integrated three-phase measuring point
The device has a three-phase LRM measuring point for phase comparison, rotating field direction measurement e.g. by means of CAP-Phase or connection of CAPDIS-M.

No battery required
Voltage test as well as self-test without battery or auxiliary voltage.

Technical Data

Device data

Article number	2502134_H001
Product designation	CAPDIS-S2_HV (R4.5) Capacitive Voltage Detecting Systems with relay contacts | for high voltage
Standard	IEC 61243-5, IEC 62271-213
Required data for order	Rated operating voltage Un, coupling capacitance C1

Functions

Intrinsic safety	Device is intrinsically safe
Broken lead detection	Can be activated/deactivated via DIP switches

Controls and display

Response time relay	<= 0,2 s
Front display	Monochrome LC display and colored LEDs
Controls	Self-test button

Dimensions and type of installation

Case height x width x depth	48 x 96 x 37 mm
Cutout height x width	45 x 92 mm
Norm cutout dimensions	DIN IEC 61554:2002-08
Installation type	Panel mounting

Operating conditions

Operating temperature	-25°C ... 55°C
Storage temperature	-30°C ... 75°C
Protection class	IP54
Voltage level	53..480 kV (High-voltage)
Rated frequency	50 Hz, 60 Hz
Type of interface	LRM
Lifetime	Minimum 22 years (MTBF)

Signaling outputs

Connection of connecting cables	By means of flat plug sleeve 4.8 x 0.8 mm or system plug (order separately)
Switching capacity relay	250 VAC, 5 A (resistive load) / 30 VDC, 5 A / 250 VDC 0.3 A (resistive load)

Voltage supply

Auxiliary power supply	24 - 230 V AC/DC +-10%
Power supply	24 - 230 V AC/DC +- 10%; Power input < 1 Watt
Power consumption	< 1 W
Insulation voltage	2 kV
Battery	No battery required

Accessories

Article number	Product designation
3500939	Connector strip- 8-pole for CAPDIS-S2x
C2m	C2m-Module for CAPDIS-Sx
2500828_S999	Cable set | Custom-made for specific switchgear | On request | 0,5 - 40 m