

Voltage detecting system (VDS) for medium voltage

Detection of voltage condition in medium voltage switchgears according to IEC 62271-213. Integrated continuous three phase voltage indication.

According to the IEC 62271-213 the system - CAVIN-3P/H - is available for high voltage applications.

No battery required

For voltage detecting and self test no external power supply or battery is required.

Completely free of maintenance

The device performs a permanent online insulation measuring.

Inherent safety

The CAVIN includes a self test which offers inherent safety, no external test device is required.

Relay contact and LED indication

For remote monitoring of voltage condition two relay contacts are integrated. The two relays (closer) are driven by auxiliary voltage. Additionally, two LEDs show the actual relay state.



Function and technical data

Applied Standard: IEC 62271-213 (VDS)

Indication per phase:

$U < 10\%$ of U_N	10% of $U_N \leq U \leq 45\%$ of U_N	$U > 45\%$ von U_N	pressed test button
→ no voltage	→ voltage present	Internal test passed → nominal voltage is present → maintenance test passed	→ display function test
<ul style="list-style-type: none"> no indication LED HV off 	<ul style="list-style-type: none"> half arrow LED HV on 	<ul style="list-style-type: none"> full arrow LED HV on 	<ul style="list-style-type: none"> framed full arrow, flashes briefly

Test button function:

Relay function:

- earth-fault or broken signal lead
- internal fault

Auxiliary voltage:

Housing:

Dimensions (w x h x d):

Standard cut-out (w x h):

Operating temperature:

Storage temperature:

Protection class:

Connectors for signal leads:

Required data for order:

Article no.:

display function test, framed full arrow

→ ERROR-LED

→ ERROR-LED

24 – 230 V AC/DC +/- 10%

front panel mounting, plastics

144 x 48 x 64 mm

139 x 45,5 mm

- 25°C to +55°C

- 30°C to +70°C

IP 54

fast-on receptacles 4.8 x 0.8 mm

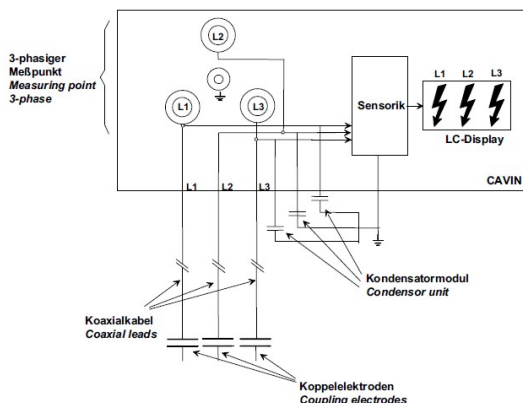
⇒ rated voltage U_N und auxiliary voltage

⇒ capacitance of coupling electrode C_1

⇒ capacitance against earth C_{2s} (e.g. for converters)

⇒ lead length: 3 m or 6 m

⇒ **2041550**



Subject to modification without prior notice.

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