

# AGH676S-4

Coupling device





### Intended use

The AGH676S-4 is used to connect ISOMETER®s to unearthed AC and 3(N)AC systems from 0...12 kV. The coupling devices are designed for the exclusive use in combination with ISOMETER®s.

Any other use than that described in this manual is regarded as improper.

### Functional description

The coupling device AGH676S-4 is used to extend the nominal voltage range of the ISOMETER®s illustrated in the wiring diagram to AC/3(N)AC 50...460 Hz, 0...12 kV.

### Certifications



### Ordering details

Type	Nominal system voltage $U_n$	Cable length	Art. No.
AGH676S-4	AC/3(N)AC 0...12 kV, 50...460 Hz	2000 mm	B913055



## Technical data

### Insulation coordination acc. to DIN EN 61800-5-1 (VDE 0160-105-1)

Rated insulation voltage	AC 12 kV
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### Voltage test acc. to DIN EN 61800-5-1 (VDE 0160-105-1)

Voltage impulse test (basic insulation)	≥ AC 75 kV
AC voltage test (basic insulation)	≥ AC 45 kV
Partial discharge test	≥ 16.5 kV <sub>eff</sub>
AC voltage test, rate of increase < 2 kV/s	AC 25 kV

### Voltage ranges

Nominal system voltage $U_n$	AC, 3(N)AC 0...12 kV
Nominal frequency $f_n$	50...460 Hz
Internal DC resistance $R_i$	≥ 160 kΩ
Impedance $Z_i$ at 12 kV and 50 Hz	≥ 12 MΩ

### Environment EMC

Ambient temperature	
Operation	-10...+55 °C
Storage	-20...+70 °C
Shock resistance	
Operation (IEC 60068-2-27)	15 g / 11 ms
Transport (IEC 60068-2-29)	40 g / 6 ms
Vibration resistance acc to IEC 60068-2-6	
Operation	1 g / 10...150 Hz
Transport	2 g / 10...150 Hz
Classification of climatic conditions acc. to IEC 60721-3-3	3K23

### Connection

Connection medium voltage	high-voltage cable (encapsulated on the device side)
Connection, flexible with ring terminal	M8
Connection terminals 3-5	screw type terminals
Connection properties rigid/flexible	0.2...4 mm <sup>2</sup> /0.2...2.5 mm <sup>2</sup>
Anzugsdrehmoment	0.5 Nm

### Other

Operating mode	continuous operation
Mounting	any position
Degree of protection	
built-in components (DIN EN 60529)	IP64
terminals (DIN EN 60529)	IP20
Type of enclosure	cast resin encapsulated
Screw mounting	M5
Flammability class	UL 94 HB
Weight	≤ 8400 g



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