

# Coupling device AGH520S



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## Product description

The coupling device AGH520S is designed to extend the nominal voltage range of the ISOMETER® iso685... series and IRDH275-4.../IRDH375-4.../IR470LY-40/IR420-D6/IRDH1065B-4 to (3)AC 0...7200 V, 50...400 Hz. The coupling device is connected to the system to be monitored by one pole and connected to the terminal AK of the ISOMETER® by means of the terminal 5.

## Approvals

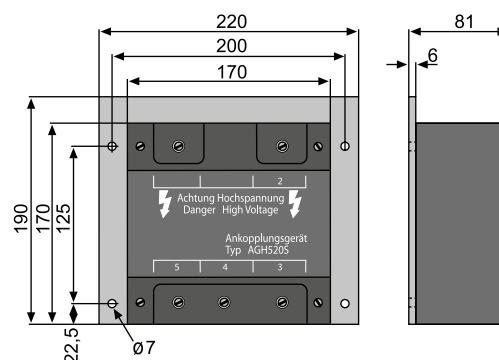


## Ordering information

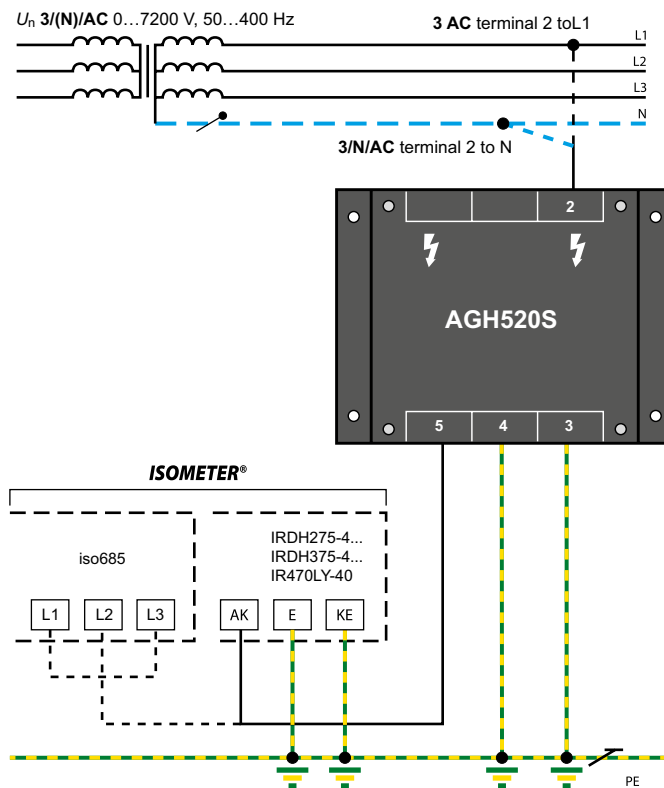
| Nominal system voltage $U_s$ | Type    | Art. No. |
|------------------------------|---------|----------|
| 3(N)AC                       | AGH520S | B913033  |
| 0...7200 V                   |         |          |

## Dimension diagram

Dimensions in mm



## Wiring diagram



## Technical data

### Insulation coordination acc. to IEC 61800-5-1

|                   |           |
|-------------------|-----------|
| Operating voltage | AC 6.3 kV |
|-------------------|-----------|

### Voltage test according to IEC 61800-5-1

|                                                              |                |
|--------------------------------------------------------------|----------------|
| Overvoltage category/impulse voltage test (basic insulation) | III / AC 35 kV |
| AC voltage test (basic insulation)                           | AC 17.5 kV     |
| Partial discharge test                                       | 12 kV          |

### Voltage ranges

|                                                  |                           |
|--------------------------------------------------|---------------------------|
| Nominal system voltage $U_n$                     | AC, 3(N)AC 0...7.2 kV     |
| Nominal system voltage $U_n$ for UL applications | AC, 3(N)AC 0...6 kV       |
| Nominal frequency $f_n$                          | 50...400 Hz               |
| Internal DC resistance $R_i$                     | $\geq 80 \text{ k}\Omega$ |
| Impedance $Z_i$ at 7.2 kV and 50 Hz              | $\geq 6 \text{ M}\Omega$  |

### Environmental conditions

#### Classification of mechanical conditions acc. to IEC 60721:

|                                |     |
|--------------------------------|-----|
| Stationary use (IEC 60721-3-3) | 3M4 |
| Transport (IEC 60721-3-2)      | 2M2 |
| Storage (IEC 60721-3-1)        | 1M3 |

|                                                            |                                                |
|------------------------------------------------------------|------------------------------------------------|
| Ambient temperature (during operation)                     | -10...+55 °C                                   |
| Ambient temperature for UL applications (during operation) | -10...+45 °C                                   |
| Ambient temperature (during storage)                       | -20...+70 °C                                   |
| Climatic class acc. to IEC 60721-3-3                       | 3K5 (except condensation and formation of ice) |

### Connection

|                                        |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| Connection terminal 2 (medium voltage) | screw-type terminal                                               |
| Connection terminals 3, 4, 5           | screw-type terminals                                              |
| Connection properties                  |                                                                   |
| rigid/flexible                         | 0.2...4 mm <sup>2</sup> / 0.2...2.5 mm <sup>2</sup> (AWG 24...12) |
| Tightening torque                      | 2.9 Nm                                                            |

### General data

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Operating mode                                           | continuous operation     |
| Position                                                 | any position             |
| Degree of protection, internal components (DIN EN 60529) | IP64                     |
| Degree of protection, terminals (DIN EN 60529)           | IP20                     |
| Type of enclosure                                        | resin-encapsulated block |
| Screw mounting                                           | 4 x M5                   |
| Flammability class                                       | UL94 HB                  |
| Documentation number                                     | D00073                   |
| Weight                                                   | $\leq 4500 \text{ g}$    |



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