Coupling device AGH204S-4

Product description
The coupling device AGH204S-4 is designed to extend the nominal voltage range of the ISOMETER® iso685… and IRDH… series to AC, 3(N)AC 0…1650/0…1300 V, 50…400 Hz.
The coupling device is connected to the system to be monitored according to the wiring diagram and connected to the terminal AK of the ISOMETER® by means of terminal AK….

Approvals

Ordering information

<table>
<thead>
<tr>
<th>Nominal system voltage $U_S$</th>
<th>Type</th>
<th>Art. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>AGH204S-4</td>
<td>B914013</td>
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</tbody>
</table>

Dimension diagram X200

Dimensions in mm

Terminal cover

Ø 5.5 for screw mounting
### Technical data

#### Insulation coordination acc. to DIN EN 61800-5-1 (VDE 0160-105-1)
- Rated insulation voltage: \( U_{in} \) = AC 1500 V

#### Voltage test acc. to DIN EN 61800-5-1 (VDE 0160-105-1)
- Impulse voltage test (basic insulation): \( \geq AC 10.4 kV \)
- AC voltage test (basic insulation): \( \geq AC 5 kV \)
- Partial discharge test: \( \geq 3 kV \)

#### Voltage ranges
- Nominal system voltage \( U_n \): 0…1300 V (including DC components)
- Nominal frequency \( f_n \): 50…400 Hz
- Overvoltage category/rated impulse voltage: III/\( \geq 10.4 kV \)

#### Internal DC resistance \( R_i \)
- Coupling to AK80: 80 kΩ
- Coupling to AK160: 160 kΩ

#### Environment
- Shock resistance: IEC 60068-2-27 (device in operation) 15 g/11 ms
- Bumping: IEC 60068-2-29 (transport) 40 g/6 ms
- Vibration resistance: IEC 60068-2-6 (device in operation) 1 g/10…150 Hz
- Vibration resistance: IEC 60068-2-6 (transport) 2 g/10…150 Hz
- Ambient temperature (during operation): -10…+55 °C
- Ambient temperature for UL applications (during operation): -10…+45 °C
- Ambient temperature (during storage): -40…-70 °C
- Climatic class acc. to DIN IEC 60721-3-3: 3KS (except condensation and formation of ice)

#### Connection
- Connection: screw-type terminals
- Connection properties:
  - rigid/flexible: 0.2…4 mm²/0.2…2.5 mm²
  - Tightening torque: 0.5 Nm
  - Conductor sizes (AWG): 24…12
  - Length of the connecting lead between the ISOMETER® and AGH: \( \leq 0.5 \) m

#### Other
- Operating mode: continuous operation
- Mounting: any position
- Degree of protection, internal components (DIN EN 60529): IP30
- Degree of protection, terminals (DIN EN 60529): IP20
- Type of enclosure: X112, free from halogen
- Screw mounting: 2 x M4
- DIN rail mounting: DIN EN 60715/IEC 60715
- Flammability class: UL94 HB
- Documentation number: D00094
- Weight: \( \leq 1350 \) g