

Coupling device

AGH675S-7/AGH675S-7MV15 series



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Product description

The coupling device AGH675S-7/AGH675S-7MV15 series is designed to extend the nominal voltage range of the ISOMETER® IRDH275BM-7. 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

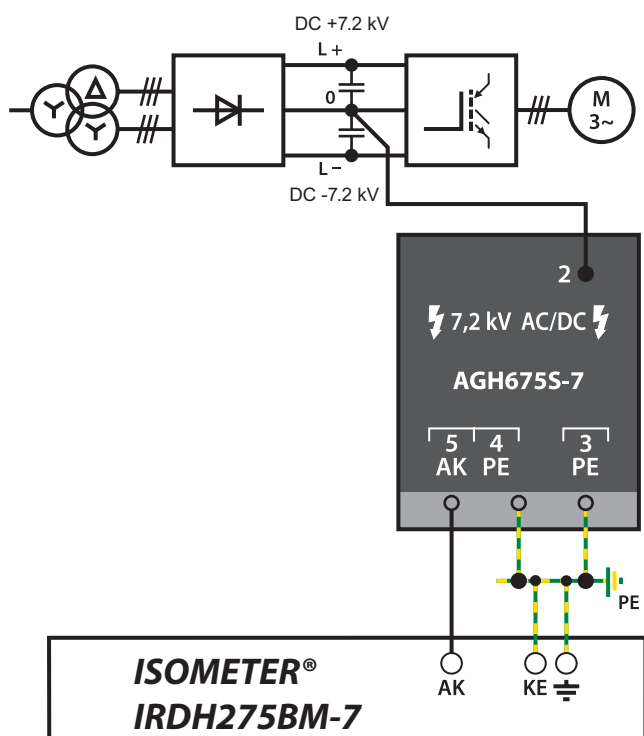
AGH675S-7



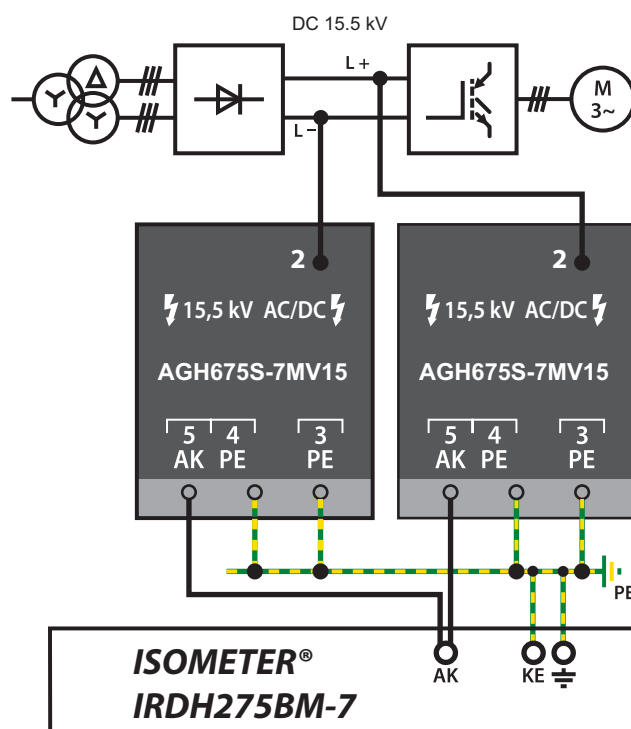
Ordering information

Nominal system voltage U_n	Cable length	Type	Art. No.
0...7.2 kV, 0...460 Hz	500 mm	AGH675S-7-500	B 913 060
	2000 mm	AGH675S-7-2000	B 913 061
0...15.5 kV, 0...460 Hz	500 mm	AGH675S-7-MV15-500	B 913 058

Wiring diagram AGH675S-7 (example)



Wiring diagram AGH675S-7MV15 (example)



Both AKs (one from each coupling device) are bridged and coupled with the AK from the IRDH275BM-7.

Technical data

Insulation coordination acc. to DIN EN 61800-5-1

AGH675S-7	
Rated insulation voltage	AC 7.2 kV
AGH675S-7MV15	
Rated insulation voltage	AC 15.5 kV

Voltage test acc. to DIN EN 61800-5-1

Type test:

AGH675S-7	
Voltage impulse test (basic insulation)	40 kV
AC voltage test (basic insulation)	20 kV
Partial discharge test	14 kV

AGH675S-7MV15	
Voltage impulse test (basic insulation)	111 kV
AC voltage test (basic insulation)	70 kV
Partial discharge test	29 kV

Routine test:

AC voltage test	40 kV
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Voltage ranges

AGH675S-7	
Nominal system voltage U_n	AC, 3(N)AC, DC 0...7.2 kV
Nominal frequency f_n	0...460 Hz
Internal DC resistance R_i	$\geq 2.39 \text{ M}\Omega$

AGH675S-7MV15	
Nominal system voltage U_n	AC, 3(N)AC, DC 0...15.5 kV
Nominal frequency f_n	0...460 Hz
Internal DC resistance R_i	$\geq 4.7 \text{ M}\Omega$

Environment

Operating temperature (normal operation)	- 10...+ 60 °C
Operating temperature (continuous operation with asymmetrical earth fault)	- 10...+ 55 °C
Classification of climatic conditions acc. to IEC 60721:	
Stationary use (IEC 60721-3-3)	3K5 (no condensation, no formation of ice)
Transport (IEC 60721-3-2)	2K3
Long-term storage (IEC 60721-3-1)	1K4
Classification of mechanical conditions acc. to IEC 60721:	
Stationary use (IEC 60721-3-3)	3M4 (3M7 Y shaft)
Transport (IEC 60721-3-2)	2M2
Long-term storage (IEC 60721-3-1)	1M3

Connection

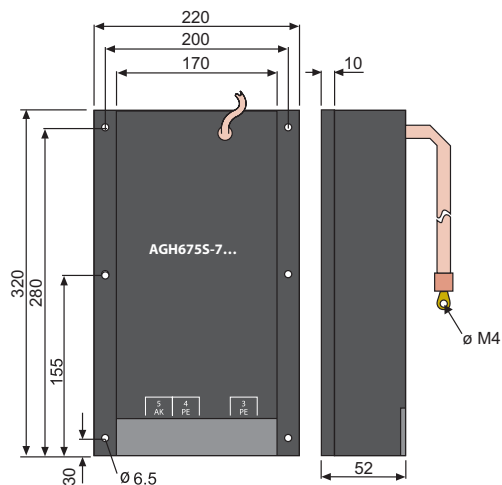
Connection (medium voltage)	high-voltage cable (encapsulated on the device side)
Connection, flexible with ring terminal	M4
Connection 3, 4, 5	screw-type terminals
Connection	
rigid, flexible	0.2...4 mm ² /0.2...2.5 mm ²
flexible with connector sleeve	0.25...2.5 mm ²

Other

Operating mode	continuous operation
Mounting	any position
Protection class, internal components (DIN EN 60529)	IP64
Protection class, terminals (DIN EN 60529)	IP20
Type of enclosure	resin-encapsulated block
Screw mounting	M5
Flammability class	UL94 V-0
Documentation number	D00095
Weight approx.	$\leq 5100 \text{ g}$

Dimension diagram

Dimensions in mm





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