





## Technical Specifications

### Product Life Cycle

Availability:	Active
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### Technical Data

Product Family:	Valve Connectors
Product Sub Family:	GDM Standard
Brand:	Hirschmann
Connector Type:	Field Attachable
Connector Sub Type:	Form A
Type of Contact / Gender:	Socket Contacts / Female
Connector Design:	Angled (90°) Body
Number of Pins:	3+PE (PE across cable outlet)
Coding:	A
Shielding:	Unshielded
Attachment Type:	Central Screw, M 3 x 35
Replacement for:	ID: 931969100 Name: GDM 3009 schwarz
Rated Voltage:	250 V
Rated Impulse Voltage:	4.0 kV
Operating Voltage:	230 V AC/DC
Rated Current*:	16 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 50
Type of Connection:	Screw terminal
Cable Gland:	PG 9
Thread Size:	PG 9
Conductor Cross Section:	0.25 - 1.5 mm <sup>2</sup>
Suitable Cables:	Ø 4.5 - 9 mm
Ambient Temperature (Operation)*:	- 40 °C to + 125 °C [ Connector ] - 30 °C to + 90 °C [ when mated with NBR gasket ] - 15 °C to + 125 °C [ when mated with FKM gasket ] - 40 °C to + 125 °C [ when mated with EPDM or MPQ gasket ]
Protection Degree / IP Rating**:	IP65
Design Standard:	DIN EN 175301-803-A, ISO 4400
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

### Materials

Contact Base Material:	Brass (CuZn)
Contact Plating:	Copper-Tin Alloy (Cu/Sn)
Contact Bearer Material:	Glass-Fiber Reinforced Polyamide (PA GF)
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 HB
Housing Material:	Glass-Fiber Reinforced Polyamide (PA GF)
Housing Color:	Black
Flammability Class (Housing):	UL 94 HB

Cable Gland Material:	Glass-Fiber Reinforced Polyamide (PA GF)
Cable Gland Gasket:	Nitrile Butadiene Rubber (NBR)
Cable Gland Color:	Black
Flammability Class (Cable Gland):	UL 94 HB
Attachment Material:	Steel Fastener (4.8 , Fe/Zn B)
Gasket Material:	Sold separately

## Protection Circuitry

Protective Circuit:	No Protective Circuit
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## Additional Technical Data

Fastening Torque (Contact Screw):	(40-50) Ncm for conductor size 0.5 - 1.5 mm <sup>2</sup> ; (30-40) Ncm for conductor size 0.38-0.34 mm <sup>2</sup> ; (25-30) Ncm for conductor size 0.25 mm <sup>2</sup>
Fastening Torque (Cable Gland):	(150-200) Ncm
Fastening Torque (Attachment):	(50-60) Ncm

## Approvals

VDE:	VDE-Reg.-Nr.: E349
SEV:	Yes

## Safety & Environmental Compliance

REACH:	Yes
RoHS Compliant:	Compliant

## Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked
Note:	Do not connect or disconnect under load.

## Variants

Item #	Item Description	Central Screw	Gasket	Packaging	Replacement For
934888105	GDM3109-A0U-10F	1- SteelScrew, Combi Head	0 - Sold Separately	F - Collect packaging 200 pieces, assembled	ID: 931969100 Name: GDM 3009 black

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