

Product: [GDM 3012 J Black](#)

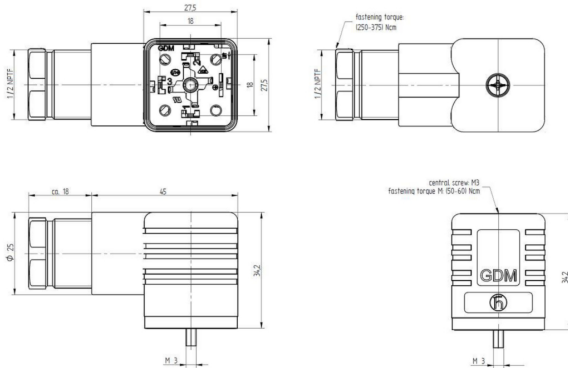


Form A, 18mm - Female 90° | #Contacts: 3+Ground (PE), Screw Type | No Protective Circuit | 250 V | Black Housing, Black 1/2" NPTF Cable Gland | Included: Central Screw | Bulk Packaging | cURus

Product Description

Form A, 18mm - Female Angled | #Contacts: 3+Ground (PE), Screw Type | No Protective Circuit | 250 V / 16A | Black Housing, Black 1/2" NPTF Cable Gland | Included: Central Screw | Bulk Packaging | UL 1977; cURus

Technical Drawing



K1 (+) ○ ————— C1 (+)
K2 (-) ○ ————— C2 (-)

K3 (+) ○ ————— C3 (+)
⊕ ○ ————— C ⊕

Technical Specifications

Technical data

| | |
|--------------------------------|---------------------------------------|
| Product Family: | Valve Connectors |
| Side 1 Product Sub Family: | GDM Legacy |
| Brand: | Hirschmann |
| Connector Type: | Field Attachable |
| Connector Sub Type: | Form A |
| Side 1 Type of Contact/Gender: | Socket Contacts / Female |
| Connector Design: | Form A Female 4 Pole (3+PE) 90° |
| Number of Pins: | 3+PE (PE across cable outlet) |
| Coding, Side 1: | A |
| Shielding Type: | Unshielded |
| Attachment Type: | Central Screw, M 3 x 35 |
| Voltage Rating: | 250 V |
| Rated Impulse Voltage: | 4.0 kV |
| Operating Voltage: | 230 V AC/DC |
| Current Rating: | 16 A |
| Contact Resistance: | ≤ 10 mOhm |
| Insulation Resistance: | > 10 ⁹ Ohm |
| Mating Cycles: | ≤ 50 |
| Type of Connection: | Screw terminal |

| | |
|-----------------------------------|--|
| Cable Gland: | 1/2" NPTF |
| Cross Section: | 0.25 - 1.5 mm² |
| Suitable Cables: | Ø 4 - 11 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

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|--------------------------------------|--|
| Contact Base Material: | Brass (CuZn) |
| Side 1 Contact Plating: | Copper-Tin Alloy (Cu/Sn) |
| Contact Bearer Color: | Brown |
| Flammability Class (Contact Bearer): | UL 94 V-0 |
| 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 |
| Attachment Material: | Steel Fastener (4.8 , Fe/Zn B) |
| Gasket Material: | Sold separately |

Protection Circuitry

| | |
|---------------------|-----------------------|
| Protective Circuit: | No Protective Circuit |
|---------------------|-----------------------|

Additional Technical Data

| | |
|-----------------------------------|---|
| Fastening Torque (Contact Screw): | (40-50) Ncm for conductor size 0.25 - 1.5 mm²; (30-40) Ncm for conductor size 0.34 mm²; (25-30) Ncm for conductor size 0.25 mm² |
| Fastening Torque (Cable Gland): | (250-375) Ncm |
| Fastening Torque (Attachment): | (50-60) Ncm |

Approvals

| | |
|----------|--------------------|
| UL-File: | E95522 |
| UL: | UL 1977; UR |
| VDE: | VDE-Reg.-Nr.: E349 |
| CSA: | Yes |
| SEV: | Yes |

Safety & Environmental Compliance

| | |
|-----------------|-----------|
| REACH: | Compliant |
| RoHS Compliant: | Compliant |

Notes

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|-------------------------------------|---|
| 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 |

Variants

| Item # | Item Description | Central Screw | Gasket | Packaging |
|-----------|-----------------------|---------------------------|---------------------|---|
| 932519100 | GDM 3012 J UM SCHWARZ | 1- SteelScrew, Combi Head | 0 - Sold Separately | S - Collect packaging 200 pieces, unassembled |

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