



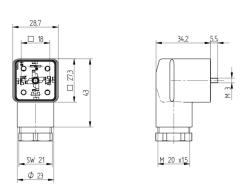
# Product: GDM21AM-V3U-10D ☐

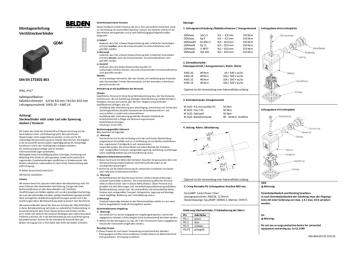
GDM Standard DIN Standard Field Attachable Connector: Form A, 3-pin (2+1PE; PE across cable outlet), UL 2238, black housing, screw type, M20 with strain relief; with bridge rectifier and varistor, 230 V AC/DC, 1 A

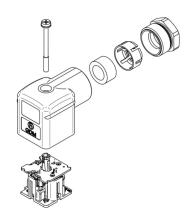
## **Product Description**

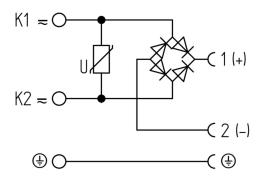
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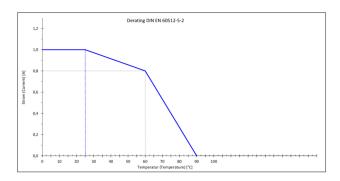
## **Technical Drawing**











# **Technical Specifications**

# **Technical Data**

| Product Family:                   | Valve Connectors                        |  |
|-----------------------------------|---|--|
| Product Sub Family:               | GDM Standard                            |  |
| Brand:                            | Hirschmann                              |  |
| Connector Type:                   | Field attachable                        |  |
| Type of Contact / Gender:         | Female                                  |  |
| Connector Design:                 | Angled                                  |  |
| Number of Pins:                   | 2+PE (PE across cable outlet)           |  |
| Coding:                           | A                                       |  |
| Shielding:                        | Unshielded                              |  |
| Attachment Type:                  | Central Screw                           |  |
| Rated Voltage (UL):               | 250 V                                   |  |
| Rated Voltage (CSA):              | 250 V                                   |  |
| Rated Impulse Voltage:            | 4.0 kV (PCBA 2.0 kV)                    |  |
| Operating Voltage:                | 230 V AC/DC                             |  |
| Rated Current*:                   | 1 A                                     |  |
| Rated Current (UL)*:              | 1 A                                     |  |
| Rated Current (CSA)*:             | 0.7 A                                   |  |
| Contact Resistance:               | ≤ 10 mOhm                               |  |
| Insulation Resistance:            | > 10^9 Ohm                              |  |
| Mating Cycles:                    | ≤ 50                                    |  |
| Type of Connection:               | Screw                                   |  |
| Cable Gland:                      | M20 with strain relief                  |  |
| Conductor Cross Section:          | 0.25 - 1.5 mm²                          |  |
| Strain-Relief:                    | Clamping Cage                           |  |
| Suitable Cables:                  | Ø 8 - 10 mm                             |  |
| Ambient Temperature (Operation)*: | -40 °C - +125 °C                        |  |
| Operating Temperature (UL):       | max. + 75 °C                            |  |
| Operating Temperature (CSA):      | max. + 75 °C                            |  |
| Protection Degree / IP Rating**:  | IP65, IP67                              |  |
| 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:   | CuZn  |
|--------------------------|-------|
| Contact Plating:         | Cu/Sn |
| Contact Bearer Material: | PA GF |
| Contact Bearer Color:    | black |

| Flammability Class (Contact Bearer): | UL 94 HB                  |
|--------------------------------------|---------------------------|
| Housing Material:                    | PA GF                     |
| Housing Color:                       | Black (cURus)             |
| Flammability Class (Housing):        | UL 94 5VA                 |
| Cable Gland Material:                | PA GF                     |
| Cable Gland Gasket:                  | NBR                       |
| Cable Gland Color:                   | Black                     |
| Strain-Relief Material:              | PA GF                     |
| Attachment Material:                 | Steel, Philips combi slot |
| Gasket Material:                     | Sold separately           |

# **Protection Circuitry**

| Bridge Rectifier:   | yes      |
|---------------------|----------|
| Protective Circuit: | Varistor |

#### **Additional Technical Data**

| Fastening Torque (Contact Screw): | M3: (25-30) Ncm |
|-----------------------------------|-----------------|
| Fastening Torque (Cable Gland):   | (150-200) Ncm   |
| Fastening Torque (Attachment):    | (50-60) Ncm     |

#### **Approvals**

| UL-File: | E315587        |  |
|----------|----------------|--|
| UL:      | UL 2238; cURus |  |
| VDE:     | yes            |  |
| SEV:     | yes            |  |

## Safety & Environmental Compliance

|  | RoHS Compliant: | yes |  |
|--|-----------------|-----|--|
|--|-----------------|-----|--|

#### **Notes**

| Note Derating:                      | Notice derating  |
|-------------------------------------|--|
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |
| Note:                               | Do not connect or disconnect under load.   |

### Variants

| Item #    | Item Description |
|-----------|------------------|
| 934888574 | GDM21AM-V3U-10D  |

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