

Product: <u>VBD 1A-1-1-226</u> ☑

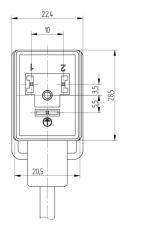
IMAGE COMING SOON

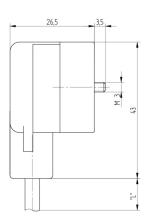
VBD DIN Standard Single-Ended Cordset: Form B, 3-pin (2+1PE; PE at cable outlet), translucent body, with varistor and yellow LED, 24 V AC/DC, 4 A; PUR black cable, 0.50 mm²

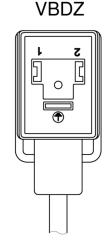
Product Description

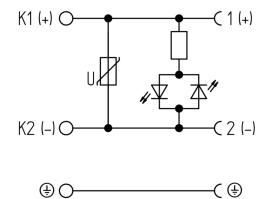
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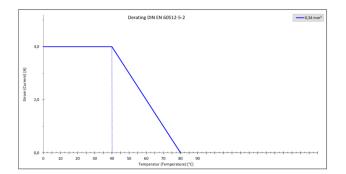
Technical Drawing











Technical Specifications

Face View				
	Pin 1 Pin 2 PE brown blue green-yellow			
	Technical Data			
	Product Family:	Valve Connectors		

Product Sub Franily: VBD DIN Standard Brack Hischmann Connector Type: Condext and		
Conector Type:Codext, single endedType of Contact / GenderFendeConnector Design:AngedNuber of Pins:Pie Pic B t a cable outlet)Coding:BStaiding:InshieldedAtachment Type:Contal ScrewRated Voltage:0 VAC/DCRated Notage:0 VAC/DCRated Inguise Voltage:0 VAC/DCRated Notage:0 VAC/DCRated Notage:0 VAC/DCRated Notage:0 VAC/DCNotage Science:0 VAC/DCRated Notage:0 VAC/DCNotage Science:0 VAC/DCNotage Science:	Product Sub Family:	VBD DIN Standard
Type of Contact / Gender: Female Connector Design: Anded Connector Design: PE (PE at cable outlet) Coding: B Stielding: Unshielded Attachment Type: B Attachment Type: Ortral Screw Rated Voltage: 0 VAC/DC Attachment Type: 0 VAC/DC Rated Ingulae Voltage: 0 VAC/DC Attachment Type: 0 VAC/DC Rated Ingulae Voltage: 0 VAC/DC Attachment Type: 0 VAC/DC Rated Ingulae Voltage: 0 VAC/DC Note Of Contact	Brand:	Hirschmann
Concector Design:AijedConcector Design:Aipe (PE at cable outlet)Number of Pins:PE (PE at cable outlet)Coding:BStalding:NaholedAtchment Type:Ontal ScrewRated Voltage:0V AC/DCRated Nubues Voltage:VA V/DCBA 2.0 kV)Operating Voltage:4V AC/DCRated Current*:4Addencement*:10 mohnInstalation Resistance:50Voltage:50Antient Temperature (Operating)*:50Protection Degree // PRating*:FesInstalation Resistance:NIN TriStal-Bis (Audio)Polection Degree // Brating*:INE NT Stal-Bis (Audio)Polection Degree // PRating*:INE NT Stal-Bis (Audio)Polection Degree // Protection	Connector Type:	Cordset, single ended
Number of Pins PE (PE at cable outlet) Coding: B Shielding: Unshielded Atachment Type: Contral Screw Rated Voltage: 01 VA C/DC Rated Voltage: 01 VA C/DC Operating Voltage: 04 VA C/DC Rated Current*: 04 A Contact Resistance: 10 mOhm Insulation Resistance: 10 mOhm Mating Cycles: 50 Anting Cycles: 50 Protection Degree / IP Rating**: IP65 Design Standard: Din En 175301-6034, BK 04400 Pollution Degree: Sinc in DIN EN 06664-1 (VDE 0110-1) Clearance / Creepage Distance: Din En 06664-1 (VDE 0110-1)	Type of Contact / Gender:	Female
Coding: B Shielding: Unshielded Attachmen Type: Contral Screw Rated Voltage: 0 V AC/DC Rated Voltage: 0 V AC/DC Rated Voltage: 4 V AC/DC Rated Current* 4 A Contar Resistance: 1 0 nOhn Insulation Resistance: 1 0 nOhn Anbient Temperature (Operation)* 2 50 Protection Degree / IP Rating* Pice Post Pice StateStateStateStateStateStateStateSta	Connector Design:	Angled
Note Unshielded Attachment Type: Central Screw Rated Voltage: 30 V AC/DC Rated Jubuse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 4.4 V AC/DC Rated Lurrent*: 4.4 Contact Resistance: in 0mbm Insulation Resistance: > 10*9 Ohm Mating Cycles: > 50 Anbient Temperature (Operation)* 25*°C - #80 °C Protection Degree / IP Rating**: IP65 Design Standard: Din EN 175301-803-8, ISO 4400 Pollution Degree: 3 co. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: Din EN 60664-1 (VDE 0110-1)	Number of Pins:	2+PE (PE at cable outlet)
AttachCentral ScrewRated Voltage:0 V AC/DCRated Inpulse Voltage:0 V V (PCBA 2.0 kV)Operating Voltage:2 V AC/DCRated Current*:4 AContact Resistance:1 0 mOhmInsulation Resistance:> 10*9 OhmMating Cycles:5 0Anbient Temperature (Operation)*:25*C - 480 °CProtection Degree / IP Rating*:IPSDisgi Standard:INE N175301-8038-J, ISO 4400Pollution Degree:0 NE N175301-8036-J, ICO E0110-1)Clearance / Creepage Distance:INE N160664-1 (VDE 0110-1)	Coding:	В
Rated Voltage:30 V AC/DCRated Impulse Voltage:4.0 kV (PCBA 2.0 kV)Operating Voltage:24 V AC/DCRated Current*:4.AContact Resistance:10 mOhmInsulation Resistance:>10*9 OhmMating Cycles:5.0Abient Temperature (Operation)*:25° C - +80 °CProtection Degree / IP Rating**:INE N 175301-803-B, ISO 4400Pollution Degree:3ac: to DIN EN 06664-1 (VDE 0110-1)Clearance / Creepage Distance:INE N 66664-1 (208001); VDE 0110-1)	Shielding:	Unshielded
Rade Impulse Voltage:4.0 kV (PCBA 2.0 kV)Operating Voltage:24 V AC/DCRade Current*:4.4Contact Resistance:10 mOhmInsulation Resistance:>10% OhmMating Cycles:>5.0Ambient Temperature (Operations*:965Protection Degree /I P Rating**:IPSDesign Standard:INEN 175301-8034, ISO 4400Pollution DegreeSoc. to DIN EN 10501-8010-110-110Contact Cycles and Biological (Cycles and Biological (Cycl	Attachment Type:	Central Screw
Operating Voltage:24 V AC/DCRated Current*:4Contact Resistance:10 mOhmIsulation Resistance:10 °O hmIsulation Resistance:50 °CAding Cycles:50 °CAmbient Temperature (Operation)*:5° C - 80 °CProtection Degree / IP Rating**:IP65Design Standard:DINE N175301-803-B, ISO 4400Pollution Degree3acc. to DIN EN 0664-1 (VDE 0110-1)Cearace / Creepage Distance:INE N0664-1 (VDE 0110-1)	Rated Voltage:	30 V AC/DC
Rated Current*4 AContact Resistance:< 10 mOhm	Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Contact Resistance:Insulation Resistance:> 10^9 OhmMating Cycles:< 50	Operating Voltage:	24 V AC/DC
I no de la comparison> 10°9 OhmMating Cycles:> 50Ambient Temperature (Operation)*:> 5° C + 80 °CProtection Degree / IP Rating**:IP65Design Standard:DIN EN 175301-803-B, ISO 4400Pollution Degree:3 acc. to DIN EN 06664-1 (VDE 0110-1)Outer Comparations:DIN EN 06664-1 (VDE 0110-1)	Rated Current*:	4 A
Mating Cycles: ≤ 50 Ambient Temperature (Operation)*: -25 °C - +80 °C Protection Degree / IP Rating**: IP65 Design Standard: DN EN 175301-803-B, ISO 4400 Pollution Degree: 3 cac. to DIN EN 60664-1 (VDE 0110-1) Design Standarce: DIN EN 60664-1 (2008/01); VDE 0110-1)	Contact Resistance:	≤ 10 mOhm
Ambient Temperature (Operation)* -25 °C - +80 °C Protection Degree / IP Rating**: IP65 Design Standard: DIN EN 175301-803-B, 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	Insulation Resistance:	> 10^9 Ohm
Protection Degree / IP Rating**: IP65 Design Standard: DIN EN 175301-803-B, ISO 4400 Pollution Degree: 3 acc. to DIN EN 06664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 06664-1 (2008/01); VDE 0110-1	Mating Cycles:	≤ 50
Design Standard: DIN EN 175301-803-B, 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	Ambient Temperature (Operation)*:	-25 °C - +80 °C
Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Protection Degree / IP Rating**:	IP65
Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Design Standard:	DIN EN 175301-803-B, 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
Uvervoitage Category: III acc. to DIN EN 60604-1 (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 V-0
Molded Body Material:	TPE
Molded Body Color:	Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Steel, Philips combi slot

Protection Circuitry

Function Indicator:	Yellow LED
Protective Circuit:	Varistor

Additional Technical Data

Fastening Torque (Attachment):	(50-60) Ncm
Cable Data	
Cable Number:	226
Conductor Size:	0.50 mm²
Number of Wires:	3
Minimal Bending Radius (Fixed Inst):	>5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 5 M
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 4.6 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.50 mm
Ambient Temperature (Fixed Installation):	- 50 °C - + 105 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 25 °C - + 105 °C (UL: + 80 °C)

Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 50265-2-2, VDE 0482-265-2-2, IEC 60332-2-2, CSA FT2
Cable Characteristics:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Coldness flexibility; Free of lacquer wetting disturbing substances

Safety & Environmental Compliance

RoHS Compliant:	yes		
Resistances			

Halogenfree:	yes
Oil Resistance:	Good chemical and oil resistance

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	Cable Length
12226	VBD 1A-1-1-226/2 M	2 m
12227	VBD 1A-1-1-226/5 M	5 m
43894	VBD 1A-1-1-226/1 M	1 m
43895	VBD 1A-1-1-226/10 M	10 m
43896	VBD 1A-1-1-226/3 M	3 m

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