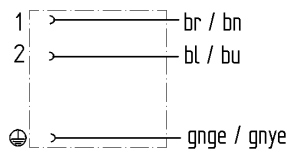
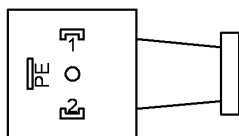
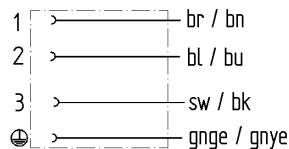
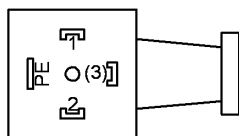


Kontaktträger
Contact bearer

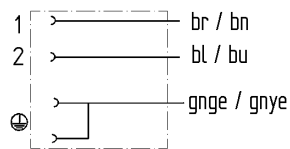
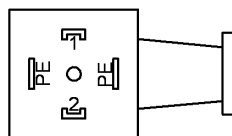
GAN21...
2 + PE



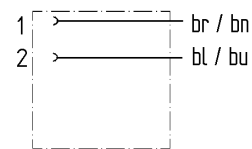
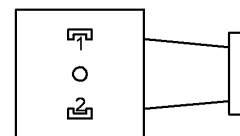
GAN31...
3 + PE



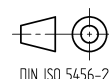
GAN22...
2 + 2 PE



GAN20...
2 no PE



The information/details in this datasheet merely contain general descriptions or performance factors which, when applied in an actual situation, do not always correspond with the described form, and may be amended by way of the further development of products. The desired performance factors shall only be binding if these are expressly agreed on conclusion of the contract.



Description	molded cable socket
Type	GAN..0U-..., see standard products**
Type of contacts	female
Number of contacts	2, 3, 4
Standard	DIN EN 175301-803-A
Construction type	A
Color housing	black

GAN220U-D14-6030200

cable lenght in cm (4-digits): 0200 cm

cable type (3.digits): STL 603

STL618, PVC, 2 x 18 AWG, grey, Style 2654

STL606, PUR, 2 x 18 AWG, grey, Style 21198

STL603, PUR, 3 x 18 AWG, grey, Style 21198

STL604, PUR, 4 x 18 AWG, grey, Style 21198

STL226, PUR, 3 x 20 AWG, black, Style 20549

STL269, PUR, 3 x 20 AWG, grey, Style 20549

marking for nominal voltage 24V to 230V

Circuit: (2-digits): D1...

Variants:

A0: without PCB

D1: recovery diode

D3: bridge rectifier

V1: VDR

V3: bridge rectifier, VDR

pin assignment: GAN22: 2 + 2PE

Variants (0U = black, molded):

GAN200U...: 2 without PE

GAN210U...: 2 + PE

GAN2Z0U...: 2 + PE (PE at cable exit)

GAN220U...: 2 + 2PE

GAN310U...: 3 + PE

GAN3Z0U...: 3 + PE (PE at cable exit)

** Further UL-articles according to the product-code on request

Description of wiring

Voltage rectifier
Protective circuit

full bridge rectifier,
recovery diode or Varistor (VDR)

Overview voltage ranges:

nominal voltage / max. voltage

24 V / 30 V

48 V / 60 V

120 V / 150 V

230 V / 250 V

Overview nominal voltage and protective circuit

24 V : Varistor, Varistor voltage: 47 V

48 V : Varistor, Varistor voltage: 100 V

120 V : Varistor, Varistor voltage: 240 V

230 V : Varistor, Varistor voltage: 470 V

230 V :recovery diode ca. 1,2 V

Technical data

Clearance / Creepage distance

Rated voltage

Rated current *

DIN EN 60664-1 (2008/01); VDE 0110-1

250 V AC/DC, without PCB;

50V AC/DC, without PCB, without ground;

with PCB see circuits and standard products.

VDE:

10 A with cable 0,75mm² (AWG18), VDE

6 A with cable 0,50mm² (AWG20), VDE

1 A with bridge rectifier

UL:

6 A with cable 0,75mm² (AWG18), VDE

4 A with cable 0,50mm² (AWG20), VDE

1 A with bridge rectifier

Contact resistance

Pollution degree

Mounting

< 10 mOhm

3 acc. to DIN EN 60664-1 (VDE 0110-1)

Central screw M 3

* Notice derating

Materials

Contact

Contact plating

Contact bearer

over molding

Central screw

Gasket(s)

CuZn

Cu/Sn

PBT GF, black

TPU, black

4.8 , Fe/Zn B

TPU, molded

EPDM, on demand, additional gasket see accessories

Resistances

Plug according to DIN EN 175301-803
 oil resistant: hydraulic oil HM22
 UV resistance,
 following to ISO 4582 is through UV radiation
 a change of color from black to black-brown acceptable.
 The change in color has no significant effect to the
 mechanical and chemical characteristics.

Cable type has to be checked separate

Environmental conditions

Protection class (IEC 60529) * IP65, IP67: -25°C to +85°C, without additional gasket**
 IP68: -25°C to +70°C, without additional gasket**
 IP65, IP67: -40°C to +105°C***, with additional gasket**
 IP68: -40°C to +85°C, with additional gasket**
 Protection class ISO 20653 (DIN 40050-9) * IP69K: max. +80°C, without additional gasket, PUR-cable**

* only if mounted and locked in combination with Hirschmann / Lumberg connector.

** Notice Temp. range of the cable

*** UL: Under UL-conditions the max. temperature.: 105°C is reduced to: 85°C

Flammability class

over molding UL 94 HB
 Contact bearer UL 94 V-0

Approvals

VDE VDE-Reg.-Nr.: 1978
 UL E315587 (cULus)
 Standard:
 UL2238
 CAN/CSA C22.2 No. 182.3-M1987

Accessories

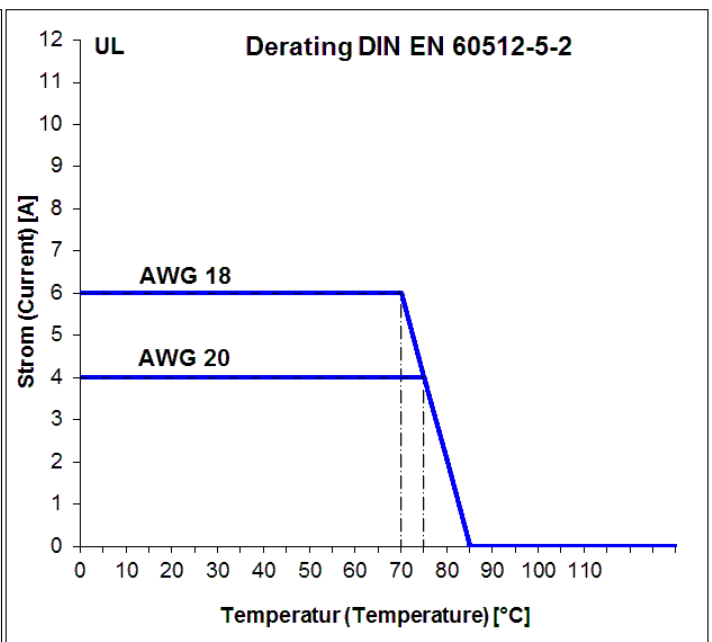
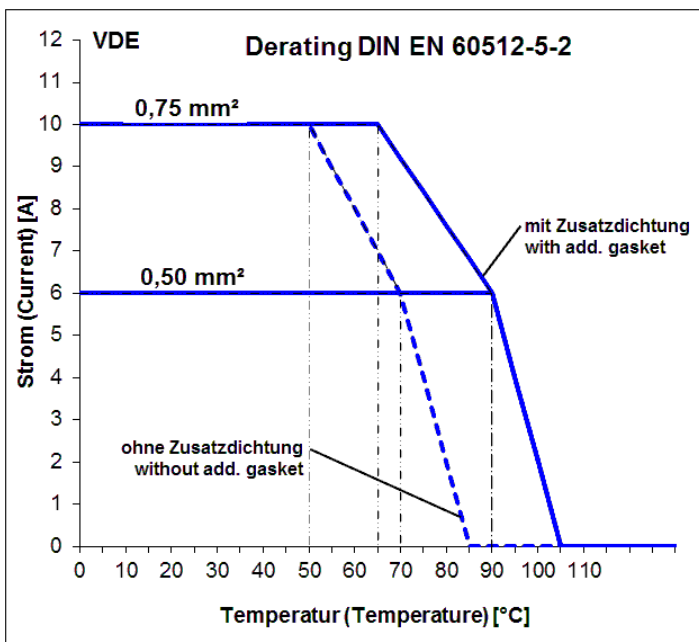
Accessories to order separately 735-633-002:, GAN gasket
 735-656-002, fixing-clip for gasket

Additional technical data

Fastening torque (central screw) M 3: (50-60) Ncm
 MTTF > 100

Cutline

Do not connect or disconnect under load.



Beschaltungen / integrated circuits

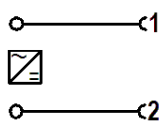
Brückengleichrichter Bridge rectifier

ohne Schutzbeschaltung
without protective circuit

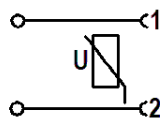
Schutzbeschaltungen protective circuit

Varistor
varistor

10A /
24V
48V
120V
230V



Productcode: D3



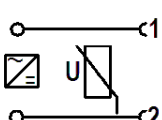
Productcode: V1

mit Varistor
with varistor

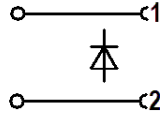
1A /
24V
48V
120V
230V

Freilaufdiode
recovery diode

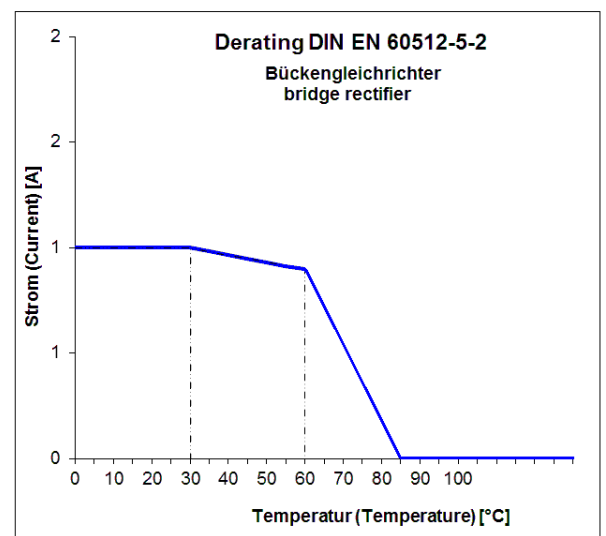
10A /
230V



Productcode: V3



Productcode: D1



Standard products

Artikel-No.	Type	Pin arrangement	Electr. Ratings	Cable-data
934-889-504	GAN220U-A0U-2260500	2+2PE; A0U	250 V ac/dc	STL 226; 500 cm
934-889-505	GAN220U-A0U-2261000	2+2PE; A0U	250 V ac/dc	STL 226; 1000 cm
934-889-573	GAN210U-A0U-6030200	2+PE; A0U	250 V ac/dc	STL 603; 200 cm
934-889-574	GAN210U-A0U-6030500	2+PE; A0U	250 V ac/dc	STL 603; 500 cm
934-889-578	GAN310U-A0U-6040200	3+PE; A0U	250 V ac/dc	STL 604; 200 cm
934-889-579	GAN310U-A0U-6040500	3+PE; A0U	250 V ac/dc	STL 604; 500 cm
934-889-583	GAN220U-A0U-6030200	2+2PE; A0U	250 V ac/dc	STL 603; 200 cm
934-889-584	GAN220U-A0U-6030500	2+2PE; A0U	250 V ac/dc	STL 603; 500 cm
934-889-587	GAN200U-A0U-6060200	2 pol; A0U	250 V ac/dc	STL 606; 200 cm
934-889-588	GAN200U-A0U-6060500	2 pol; A0U	250 V ac/dc	STL 606; 500 cm