



Connector

16 A plug connection



Wall socket



Flange socket

Description

The plug connections in the 07-831* series are suitable for use in potentially explosive areas of Zones 1 and 2 and of Zones 21 and 22.

The quality materials used for the enclosure, including the external metal parts, guarantee the appropriate corrosion protection and chemical resistance for the application in "normal industrial atmospheres":

- Impact resistant polyamide
- Fibreglass reinforced polyester
- Stainless steel AISI 316 L.

The plug connections are used to supply power to portable local controllers, electrical installations and mobile machines and drives in potentially explosive areas, but can also be used in a "normal industrial area".

The low voltage sockets can be used up to a max. 16 A and for the voltage range set out in EN 60309 (see technical data).

The operating equipment connected to the connector must be suitable for the mains voltage supplied.

Explosion protection

Ex protection type

ATEX $\text{Ex II 2G Ex db eb [ia] IIC/IIB+H2/IIB T6 Gb}$
 $\text{Ex II 2D Ex tb IIIC T80°C Db}$

Certification

Wall socket/connector
BVS 17 ATEX E 053 X

Flange socket
BVS 15 ATEX E 101 U

IECEx $\text{Ex db eb [ia] IIC/IIB/IIB+H2 T6 Gb}$
 $\text{Ex tb IIIC T80°C Db}$

Certification

IECEx BVS 17.0045 X

Other approvals and test certificates can be found at www.bartec.de

Permitted ambient temperature

-20 °C to +40 °C

Extended temperature range on request

Technical data

Rated voltage

Up to 250 V, (3-pole) / 415 V, (4-pole) / 415 V, (5-pole) AC

Further voltage ranges on request

Rated current

16 A

Frequency

Up to 400 Hz

Making / breaking capacity AC-3 in acc. with EN 60947-4

U_e 690 V / I_e 16 A

Max. external back-up fuse

Without thermal protection: 16 A
With thermal protection: 35 A gL
(Rated current set to 16 A)

Protection class

I

Protection class under EN 60529

IP 66

Enclosure colour

schwarz

Wall socket

Cable glands

1 x M25 Ø 8 to 17 mm
1 x M25 plastic EX screw plug

Terminals

2 x 1 to 4 mm²

Enclosure material

Fibreglass reinforced polyester



Plug connection 16 A, 3-pole, 4-pole and 5-pole

BARTEC

Connector

Cable glands

- Ø 8 to 19 mm (3-pole)
- Ø 8 to 21 mm (4-pole)
- Ø 12 to 21 mm (5-pole)

Terminals

1 x 1.0 to 2.5 mm²

Enclosure material

Polyamide

Flange socket

Terminals

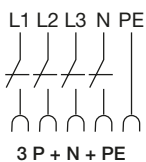
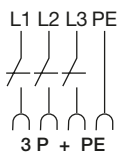
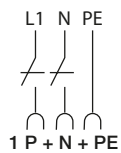
2 x 1 to 4 mm²

Enclosure material

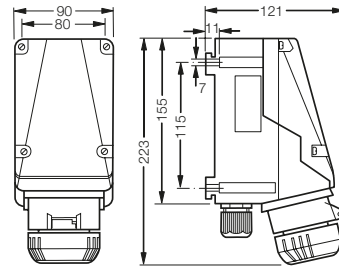
Polyamide

Connection diagrams

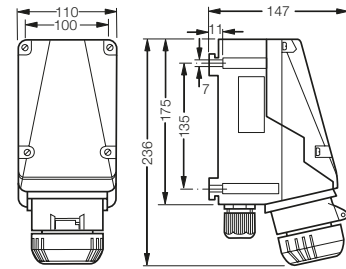
without auxiliary contact



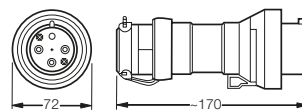
Dimensions 3-pole wall socket,



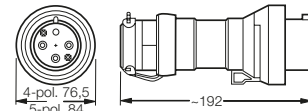
4/5-pole wall socket



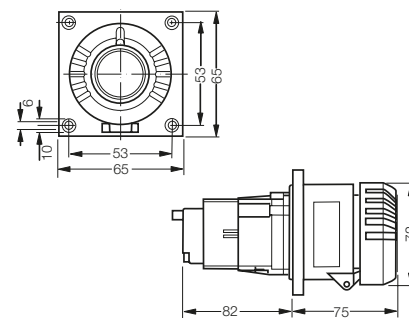
Dimensions 3-pole connector



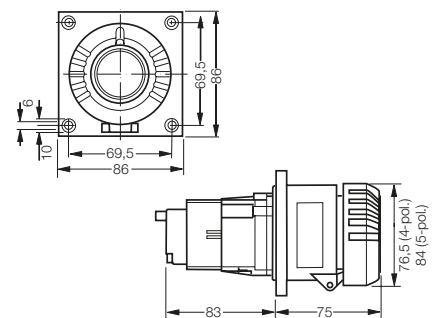
4/5-pole connector



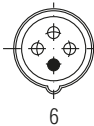
Dimensions 3-pole flange socket



4/5-pole flange socket



Selection table

Voltage	h	Type	Cable gland	Weight approx. kg	Order no.
Type 16 A 3-pole					
200 to 250 V		Wall socket	M25 KU	1.2	07-8314-34431000
		Flange socket		0.4	07-8313-34100000
		Connector		0.35	07-8311-34100000
Type 16 A 4-pole					
380 to 415 V		Wall socket	M25 KU	1.8	07-8314-45431000
		Flange socket		1.0	07-8313-45100000
		Connector		0.7	07-8311-45100000
Type 16 A 5-pole					
200 to 250 V 380 to 415 V		Wall socket	M25 KU	1.8	07-8314-55431000
		Flange socket		1.0	07-8313-55100000
		Connector		0.7	07-8311-55100000

Other voltage ranges and designs are available on request. KU = 1 x M25 plastic cable gland for Ø 8 to 17 mm, 1 x M25 plastic EX screw plug