

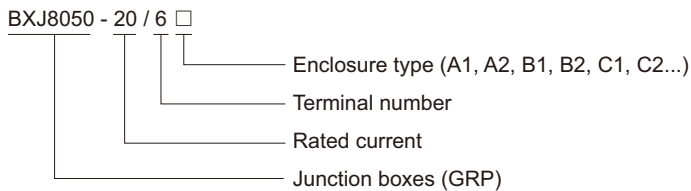
Terminal Boxes

BXJ8050-20/6 Series Junction Boxes



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ GRP (glass fibre-reinforced polyester resin) enclosure.

■ Catalogue number logic



Technical data

Junction boxes BXJ8050-20/6 □

Explosion protection

Gas explosion protection
Dust explosion protection

⊕ II 2 G Ex e II T6
Ex tD A21 T80°C IP65

Certificates

For gas explosion protection
For dust explosion protection

PTB 06 ATEX 1013; IECEx CQM 07.0013; BR229793-X (Brazil)
PCEC (China)

Conformity to standards

EN 50014:1997+A1+A2, EN 50019:2000
IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004

Enclosure material

GRP (glass fibre-reinforced polyester resin)

Terminal

6 stud terminals

Cross section of cable

0.2~4mm²

Exposed fastener

Stainless steel

Rated voltage

Max. 500V AC

Rated current

20A

Degree of protection

IP65

Ambient temperature

-20°C~+55°C

Cable entries



















Standard, see Selection table

Zones 1&2; 21&22


Terminal Boxes

BXJ8050-20/6 Series Junction Boxes

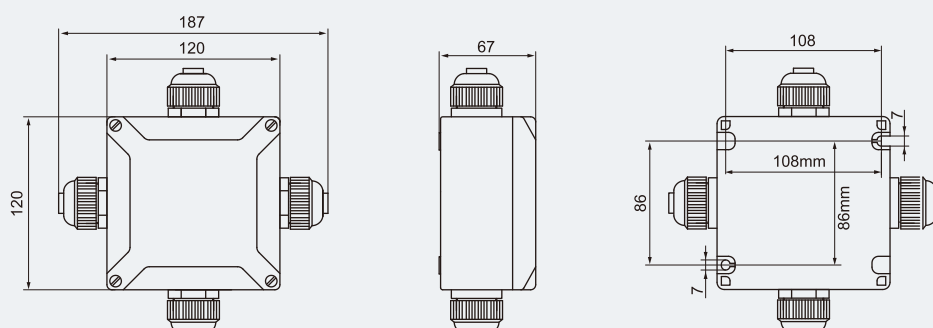
Selection table

Type/Ordering code	Schematic diagram	Cable gland	Weight (kg)
BXJ8050-20/6A1	A1 	1 x M20 x 1.5 DQM-I (plastic)	0.65
BXJ8050-20/6A2	A2 	1 x M25 x 1.5 DQM-I (plastic)	
BXJ8050-20/6B1	B1 	2 x M20 x 1.5 DQM-I (plastic) 1 stopping rod	0.70
BXJ8050-20/6B2	B2 	2 x M25 x 1.5 DQM-I (plastic) 1 stopping rod	
BXJ8050-20/6C1	C1 	3 x M20 x 1.5 DQM-I (plastic) 2 stopping rods	0.70
BXJ8050-20/6C2	C2 	3 x M25 x 1.5 DQM-I (plastic) 2 stopping rods	
BXJ8050-20/6D1	D1 	4 x M20 x 1.5 DQM-I (plastic) 3 stopping rods	0.75
BXJ8050-20/6D2	D2 	4 x M25 x 1.5 DQM-I (plastic) 3 stopping rods	
BXJ8050-20/6E1	E1 	2 x M20 x 1.5 DQM-I (plastic) 1 stopping rod	0.70
BXJ8050-20/6E2	E2 	2 x M25 x 1.5 DQM-I (plastic) 1 stopping rod	
BXJ8050-20/6F1	F1 	4 x M20 x 1.5 DQM-I (plastic) 3 stopping rods	0.75
BXJ8050-20/6F2	F2 	4 x M25 x 1.5 DQM-I (plastic) 3 stopping rods	
BXJ8050-20/6G1	G1 	5 x M20 x 1.5 DQM-I (plastic) 4 stopping rods	0.75
BXJ8050-20/6G2	G2 	5 x M25 x 1.5 DQM-I (plastic) 4 stopping rods	
BXJ8050-20/6H1	H1 	6 x M20 x 1.5 DQM-I (plastic) 5 stopping rods	0.75
BXJ8050-20/6H2	H2 	6 x M25 x 1.5 DQM-I (plastic) 5 stopping rods	
BXJ8050-20/6I1	I1 	7 x M20 x 1.5 DQM-I (plastic) 6 stopping rods	0.80
BXJ8050-20/6I2	I2 	7 x M25 x 1.5 DQM-I (plastic) 6 stopping rods	

Terminals

Description	Illustration	Max. Current	Ordering code	Weight (kg)
Stud terminal		20A	30010	0.15

Dimension drawings (all dimensions in mm) - subject to alteration



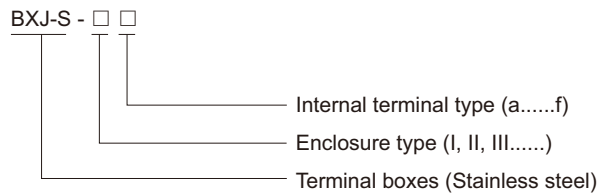
Terminal Boxes

BXJ-S Series Terminal Boxes



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 0, Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Stainless steel enclosure.
- ◆ International brand of explosion-proof terminal.

■ Catalogue number logic



Zones 0&1&2; 21&22


Terminal Boxes

BXJ-S Series Terminal Boxes

Technical data																						
Terminal boxes (Ex e IIC Ex ia IIC) BXJ-S-□□																						
Explosion protection	Gas explosion protection: Ex II 2 G Ex e IIC T6 or T5 Gb Ex II 1 G Ex ia IIC T6 Ga Dust explosion protection: Ex II 2 D Ex tb IIIC T80°C or T95°C Db IP66 Ex II 2 D Ex tb IIIC T80°C Db IP66																					
Certificates	LCIE 10 ATEX 3071X; IECEx CQM 11.0020X; RU C-CN.Г505.B.00345(CU-TR)																					
Conformity to standards	EN 60079-0:2009, EN 60079-7:2007, EN 60079-11:2007, EN 60079-31:2009 IEC 60079-0:2007, IEC 60079-7:2006, IEC 60079-11:2006, IEC 60079-31:2008																					
Enclosure material	Stainless steel																					
Terminal	International brand of explosion-proof terminal Ex-mark: Ex II 2 GD Ex e II																					
Exposed fastener	Stainless steel																					
Rated voltage	Max. 500V AC																					
Rated current	<table border="1"> <thead> <tr> <th>Cross section</th> <th>2.5mm²</th> <th>4mm²</th> <th>6mm²</th> <th>10mm²</th> <th>16mm²</th> <th>35mm²</th> </tr> </thead> <tbody> <tr> <td>Ex e Rated current</td> <td>24A</td> <td>32A</td> <td>41A</td> <td>57A</td> <td>76A</td> <td>125A</td> </tr> <tr> <td>Ex ia Rated current</td> <td>5A</td> <td>5A</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	Ex e Rated current	24A	32A	41A	57A	76A	125A	Ex ia Rated current	5A	5A	-	-	-	-
Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²																
Ex e Rated current	24A	32A	41A	57A	76A	125A																
Ex ia Rated current	5A	5A	-	-	-	-																
Degree of protection	IP66, IP67 (optional)																					
Ambient temperature	Ex e: T6 for Tamb: -40°C ~ +40°C; T5 for Tamb: -40°C ~ +50°C Ex ia: T6 for Tamb: -40°C ~ +50°C																					
Note	Ex e Rated current > 125A on request.																					

Cable entry table

Table of max. number of possible enclosure entries with cable glands DQM-I

	I		II		III		IV		V		VI		VII	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	2	2	3	4	9	9	12	12	20	20	20	28	40	54
M25 x 1.5	1	1	3	3	8	8	10	10	18	18	18	24	26	40
M32 x 1.5	/	/	2	3	6	6	8	8	12	12	12	16	14	26
M40 x 1.5	/	/	/	/	3	3	4	4	6	6	6	14	10	20
M50 x 1.5	/	/	/	/	2	2	3	3	5	5	5	12	8	9
M63 x 1.5	/	/	/	/	2	2	2	2	4	4	5	5	5	7

Note: 1. No cable entries for standard design. Cable entries shall be drilled by user.

2. For cable entries:

- 1) Please specify the direction and size of each cable entry.
- 2) Cable gland is optional, DQM-I (Ex e) is recommended. Please see P7/17~19.



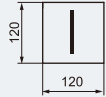
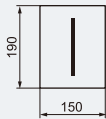

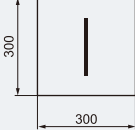
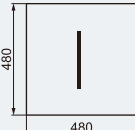
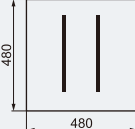
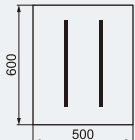

Terminal Boxes

BXJ-S Series Terminal Boxes

Selection table of BXJ-S series terminal boxes

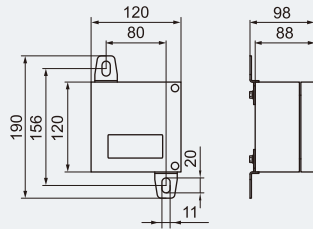
Max. cross section of cable connected to terminals is 35mm²

See table for max. number of fitted terminals

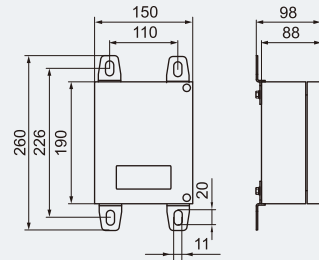
Enclosure code/Ordering code	Outline	Cross section of cable (mm ²)						Weight (kg)
		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	
I		10	8	—	—	—	—	2.25
II		15	12	10	—	—	—	3.60
III		25	22	18	15	12	8	7.40
IV		30	28	25	20	14	10	8.70
V		60	55	45	35	30	20	18.60
		120	110	90	70	60	—	18.60
VI		160	140	100	80	70	50	25.70
VII		300	270	240	165	135	72	40.10

Terminal Boxes BXJ-S Series Terminal Boxes

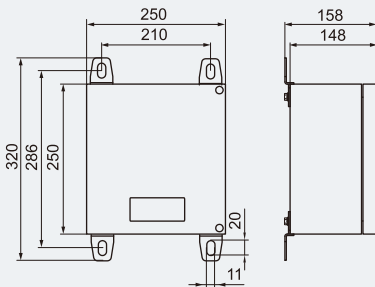
Dimension drawings (all dimensions in mm) - subject to alteration



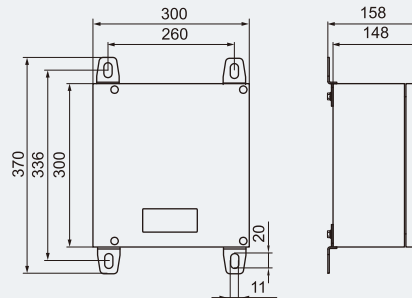
Type I



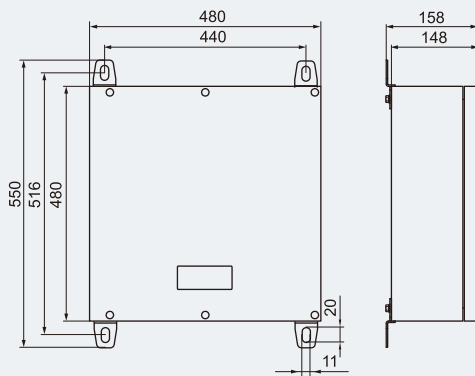
Type II



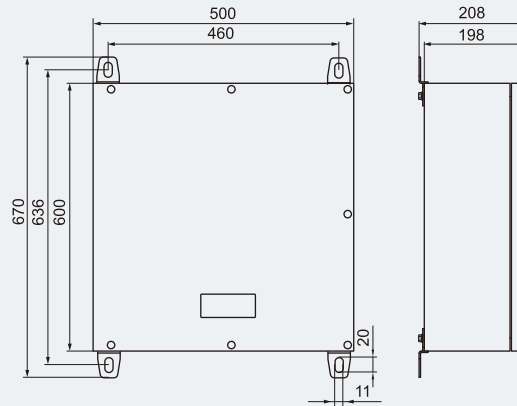
Type III



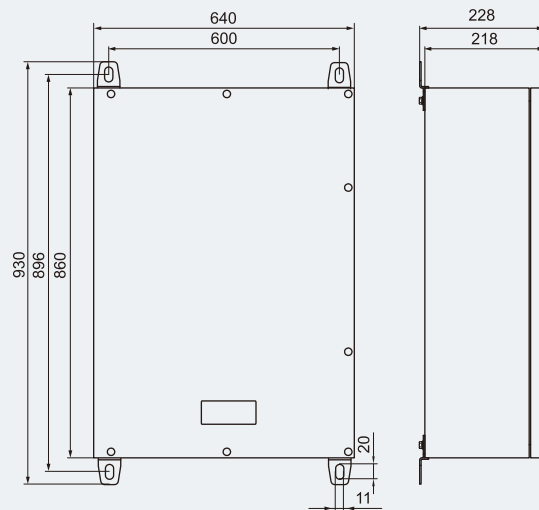
Type IV



Type V



Type VI



Type VII



Plug and Sockets General Introduction

Introduction of the voltage, pole number, clock position and colour of explosion-proof plug and sockets

Plug and Sockets are in compliance with the following international standards: IEC60309-1& IEC60309-2, CEIEN60309-1& CEIEN60309-2. They are also in compliance with the standards: VDE0623 &BS4343.

Position of the earthing contact according to IEC60309-2

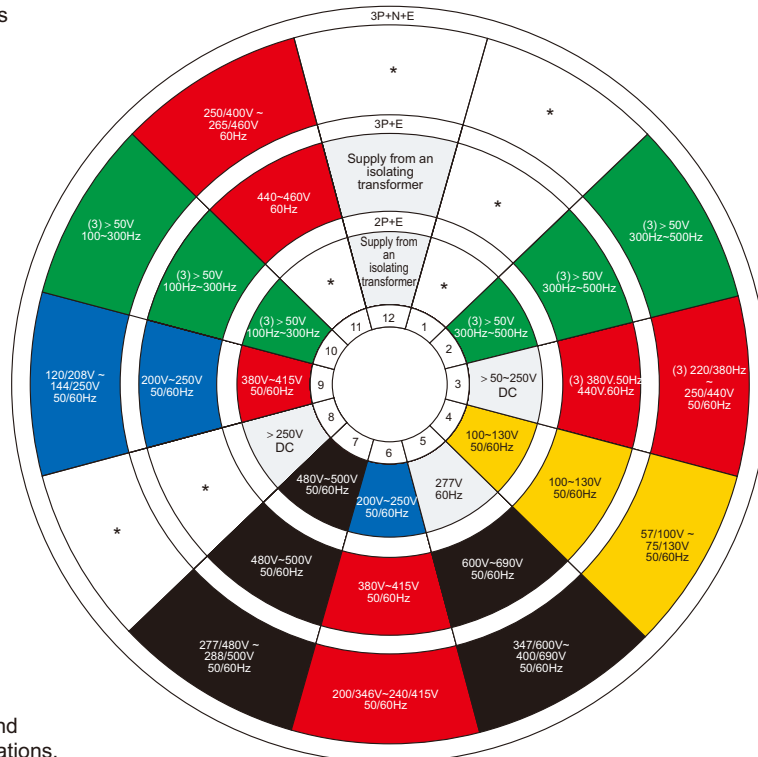
Voltage (V)	Frequency (Hz)	1P+N+PE		2P+PE		3P+PE		3P+N+PE	
		16A, 32A	63A,125A	16A, 32A	63A,125A	16A, 32A	63A,125A	16A, 32A	63A,125A
57/110 ~ 75/130	50 / 60							4	4
100 ~ 130	50 / 60	4	4	4	4	4	4		
120/208 ~ 144/250	50 / 60							9	9
200 ~ 250	50 / 60			6	6	9	9		
200/346 ~ 240/415	50 / 60							6	6
220/380 ~ 250/440 ⁽¹⁾	50 / 60							3	3 ⁽³⁾
250/400 ~ 265/460 ⁽²⁾	60							11	11
277	60	5	5	5	5				
277/480 ~ 288/500	50 / 60							7	7
347/600 ~ 400/690	50 / 60							5	5
380 ~ 415	50 / 60			9	9	6	6		
380; 440 ⁽¹⁾	50 / 60					3	3 ⁽³⁾		
440 ~ 460 ⁽²⁾	60					11	11		
480 ~ 500	50 / 60			7	7	7	7		
600 ~ 690	50 / 60					5	5		
> 50	100 ~ 300			10 ⁽³⁾	10 ⁽³⁾	10 ⁽³⁾	10 ⁽³⁾	10 ⁽³⁾	10 ⁽³⁾
> 50	> 300 ~ 500			2	2 ⁽³⁾	2	2 ⁽³⁾	2	2
> 50 ~ 250	DC			3	3				
> 250	DC			8	8		12		
Supply from an isolating transformer	50 / 60			12	12	12			



(1) Only for refrigeration containers (standardized ISO)

(2) Mainly for marine installations

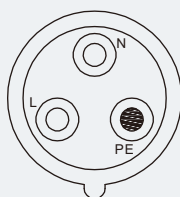
(3) Non standard



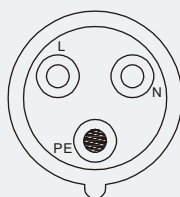
* Clock positions not normed and free for use for special applications.

Plug and Sockets General

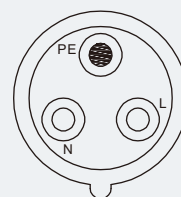
View: Front side socket or connector



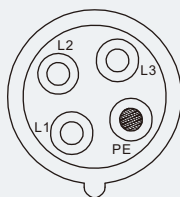
2P+PE 4h
100V~130V



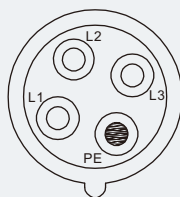
2P+PE 6h
200V~250V



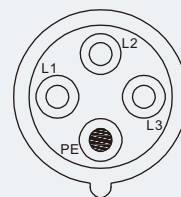
2P+PE 12h
< DC50V



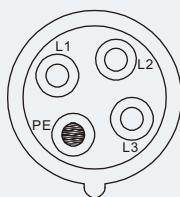
3P+PE 4h
100V~130V



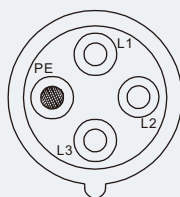
3P+PE 5h
600V~690V



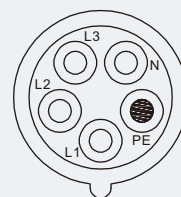
3P+PE 6h
380V~415V



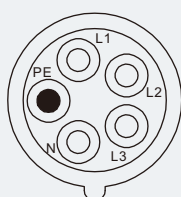
3P+PE 7h
480V~500V



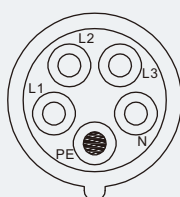
3P+PE 9h
200V~250V



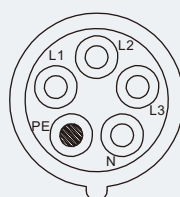
3P+N+PE 4h
57/100V~75/130V



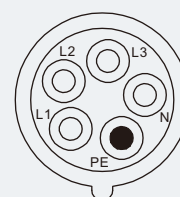
3P+N+PE 9h
120/208V~144/250V



3P+N+PE 6h
200/346V~240/415V



3P+N+PE 7h
277/480V~288/500V

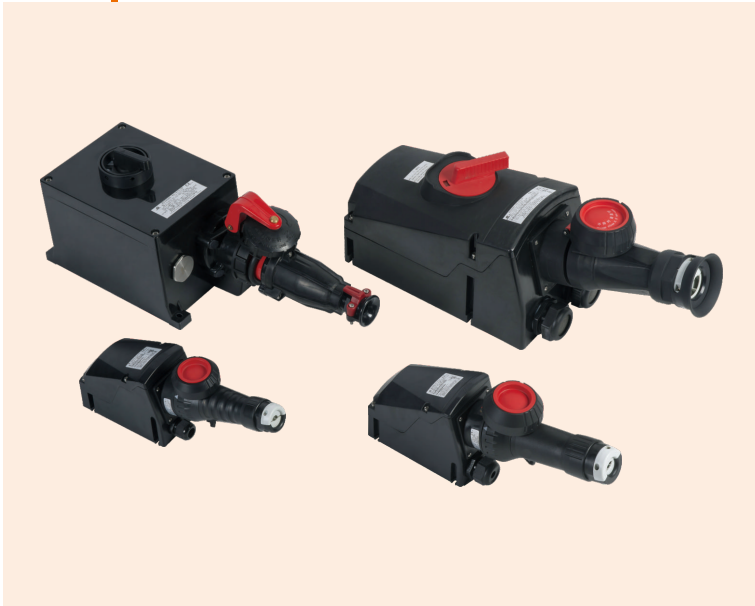


3P+N+PE 5h
347/600V~400/690V



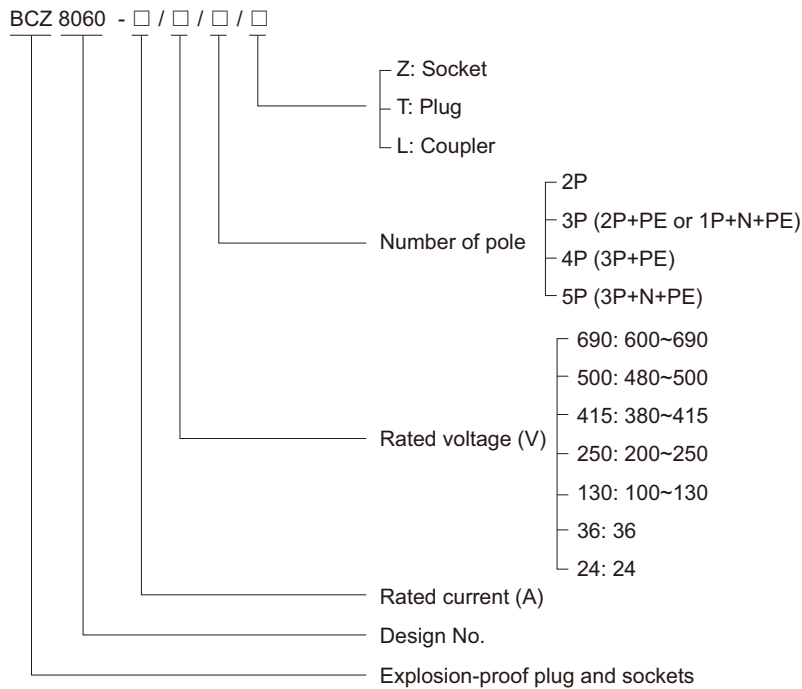
Note: Above drawings show the relationships among the clock position, voltage and pole number of our BCZ8060 series, BCZ85 series and BLJ85 series standard products. The clock position indicates the direction by plughole of socket or connector.

Plug and Sockets BCZ8060 Series Explosion-proof Plug and Sockets



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ 2P, 3P, 4P and 5P.
- ◆ Plug can only be pulled out when switch is off; turn on the power after inserting the plug.
- ◆ GRP (glass fibre-reinforced polyester resin).

■ Catalogue number logic



Zones 1&2; 21&22

Plug and Sockets

BCZ8060 Series Explosion-proof Plug and Sockets

Selection table

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Ordering code	Weight (kg)
	480~500	16	3P+PE		7	30048	1.85
	380~415	16	3P+N+PE		6	30049	1.85
		16	3P+PE		6	30050	1.85
	200~250	16	3P+N+PE		6	30051	1.85
		16	3P+PE		9	30052	1.85
		16	2P+PE		6	30053	1.85
	100~130	16	1P+N+PE		4	30054	1.85
	36	16	2P+PE		12	30055	1.80
		16	2P			30056	1.80
	24	16	2P+PE		12	30057	1.80
16		2P			30058	1.80	
	600~690	32	3P+PE		5	30059	2.85
	480~500	32	3P+PE		7	30060	2.85
	380~415	32	3P+N+PE		6	30061	2.85
		32	3P+PE		6	30062	2.85
	200~250	32	3P+N+PE		6	30063	2.85
		32	3P+PE		9	30064	2.85
	380~415	63	3P+N+PE	/	/	30065	14.90
		63	3P+PE	/	/	30066	14.90
	200~250	63	1P+N+PE	/	/	30067	14.90
	600~690	125	3P+PE		5	30068	16.00
	480~500	125	3P+PE		7	30069	16.00
	380~415	125	3P+N+PE		6	30070	16.00
		125	3P+PE		6	30071	16.00
	200~250	125	3P+N+PE		6	30072	16.00
		125	3P+PE		9	30073	16.00



Plug and Sockets

BCZ8060 Series Explosion-proof Plug and Sockets

Technical data

Explosion-proof plug and sockets **BCZ8060-16/□/□**

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d e IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP65

Certificates

EUT 14 ATEX 1153; IECEX CQM 13.0043X

Conformity to standards

EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009
IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008

Enclosure material

GRP (glass fibre-reinforced polyester resin)

Exposed fastener

Stainless steel

Rated voltage

AC 480V~500V, 380V~415V, 200V~250V, 100V~130V
DC 36V, 24V

Rated current

16A

Degree of protection

IP65

Ambient temperature

-20°C~+55°C

Cable entries

Standard 1 x G3/4" cable gland(plastic), 1 x G3/4" plug (plastic)

Cable gland (optional)

DQM-I (Ex e) is recommended. Please see P7/16.

Cross section of cable

2.5~4 mm²

Accessories and spare parts

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering Code	Weight (kg)
16A Coupler	480 ~ 500	16	3P+PE		7	Black	30099	1.30
			3P+N+PE		6	Red	30100	1.30
	380 ~ 415	16	3P+PE		6	Red	30101	1.30
			3P+N+PE		6	Blue	30102	1.30
			3P+PE		9	Blue	30103	1.30
	200 ~ 250	16	2P+PE		6	Blue	30104	1.30
			1P+N+PE		4	Yellow	30105	1.30
			2P+PE		12	Violet	30106	1.25
	36	16	2P			Violet	30107	1.25
			2P+PE		12	Violet	30108	1.25
	24	16	2P			Violet	30109	1.25



Plug and Sockets

BCZ8060 Series Explosion-proof Plug and Sockets

Accessories and spare parts

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering Code	Weight (kg)
 16A Socket	480 ~ 500	16	3P+PE		7	Black	30075	1.50
	380 ~ 415	16	3P+N+PE		6	Red	30076	1.50
		16	3P+PE		6	Red	30077	1.50
	200 ~ 250	16	3P+N+PE		6	Blue	30078	1.50
		16	3P+PE		9	Blue	30079	1.50
		16	2P+PE		6	Blue	30080	1.50
	100 ~ 130	16	1P+N+PE		4	Yellow	30081	1.50
	36	16	2P+PE		12	Violet	30082	1.45
		16	2P			Violet	30083	1.45
	24	16	2P+PE		12	Violet	30084	1.45
		16	2P			Violet	30085	1.45
	 16A Plug	480 ~ 500	16	3P+PE		7	Black	30087
380 ~ 415		16	3P+N+PE		6	Red	30088	0.35
		16	3P+PE		6	Red	30089	0.35
200 ~ 250		16	3P+N+PE		6	Blue	30090	0.35
		16	3P+PE		9	Blue	30091	0.35
		16	2P+PE		6	Blue	30092	0.35
100 ~ 130		16	1P+N+PE		4	Yellow	30093	0.35
36		16	2P+PE		12	Violet	30094	0.35
		16	2P			Violet	30095	0.35
24		16	2P+PE		12	Violet	30096	0.35
		16	2P			Violet	30097	0.35



Technical data

Explosion-proof plug and sockets **BCZ8060-32/□/□**

Explosion protection

Gas explosion protection

Dust explosion protection

⊕ II 2 G Ex d e IIC T5 or T4 Gb

⊕ II 2 D Ex tb IIIC T80°C Db IP65

Certificates

EUT 14 ATEX 1153; IECEx CQM 13.0043X

Conformity to standards

EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009
IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008
GRP (glass fibre-reinforced polyester resin)

Enclosure material

Exposed fastener

Rated voltage

Rated current

Degree of protection

Ambient temperature

Cable entries

Cable gland (optional)

Cross section of cable

Stainless steel

AC 600V~690V, 480V~500V, 380V~415V, 200V~250V

32A

IP65

T5 for Tamb: -20°C~+40°C, T4/T80°C for Tamb: -20°C~+55°C

Standard 1 x M40 x 1.5 cable gland (plastic), 1 x M40 x 1.5 plug(plastic)

DQM-I (Ex e) is recommended. Please see P7/16.

4~6 mm²



Accessories and spare parts

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering Code	Weight (kg)
	600 ~ 690	32	3P+PE		5	Black	30110	1.90
	480 ~ 500	32	3P+PE		7	Black	30111	1.90
	380 ~ 415	32	3P+N+PE		6	Red	30112	1.90
		32	3P+PE		6	Red	30113	1.90
	200 ~ 250	32	3P+N+PE		6	Blue	30114	1.90
		32	3P+PE		9	Blue	30115	1.90
	600 ~ 690	32	3P+PE		5	Black	30116	0.95
	480 ~ 500	32	3P+PE		7	Black	30117	0.95
	380 ~ 415	32	3P+N+PE		6	Red	30118	0.95
		32	3P+PE		6	Red	30119	0.95
	200 ~ 250	32	3P+N+PE		6	Blue	30120	0.95
		32	3P+PE		9	Blue	30121	0.95
	600 ~ 690	32	3P+PE		5	Black	30122	1.75
	480 ~ 500	32	3P+PE		7	Black	30123	1.75
	380 ~ 415	32	3P+N+PE		6	Red	30124	1.75
		32	3P+PE		6	Red	30125	1.75
	200 ~ 250	32	3P+N+PE		6	Blue	30126	1.75
		32	3P+PE		9	Blue	30127	1.75

Plug and Sockets

BCZ8060 Series Explosion-proof Plug and Sockets

Technical data	
Explosion-proof plug and sockets BCZ8060-63/□/□	
Explosion protection	
Gas explosion protection	⊕ II 2 G Ex d e IIC T5 or T4 Gb
Dust explosion protection	⊕ II 2 D Ex tb IIIC T95°C Db IP65
Certificates	EUT 14 ATEX 1153; IECEx CQM 13.0041X
Conformity to standards	EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008
Enclosure material	GRP (glass fibre-reinforced polyester resin)
Exposed fastener	Stainless steel
Rated voltage	AC 380V~415V, 200V~250V
Rated current	63A
Degree of protection	IP65
Ambient temperature	T5 for Tamb: -20°C~+40°C, T4/T95°C for Tamb: -20°C~+55°C
Cable entries	Standard 1 x G1 1/2" cable gland (plastic)
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/16.
Cross section of cable	10~16 mm ²

Accessories and spare parts							
Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	Colour	Ordering Code	Weight (kg)
63A Socket 	380 ~ 415	63	3P+N+PE	/	Red	30128	12.75
		63	3P+PE		Red	30129	12.75
	200 ~ 250	63	1P+N+PE	/	Blue	30130	12.75
63A Plug 	380 ~ 415	63	3P+N+PE	/	Red	30131	2.15
		63	3P+PE	/	Red	30132	2.15
	200 ~ 250	63	1P+N+PE	/	Blue	30133	2.15



Plug and Sockets

BCZ8060 Series Explosion-proof Plug and Sockets

Technical data

Explosion-proof plug and sockets **BCZ8060-125/□/□**

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d e IIC T4 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T95°C Db IP65

Certificates

EUT 14 ATEX 1153; IECEX CQM 13.0042X

Conformity to standards

EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009
IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008

Enclosure material

GRP (glass fibre-reinforced polyester resin)

Exposed fastener

Stainless steel

Rated voltage

AC 600V~690V, 480V~500V, 380V~415V, 200V~250V

Rated current

125A

Degree of protection

IP65

Ambient temperature

-20°C~+55°C

Cable entries

Standard 1 x G1 1/2" cable gland (plastic)















Cable gland (optional)

DQM-I (Ex e) is recommended. Please see P7/16.

Cross section of cable

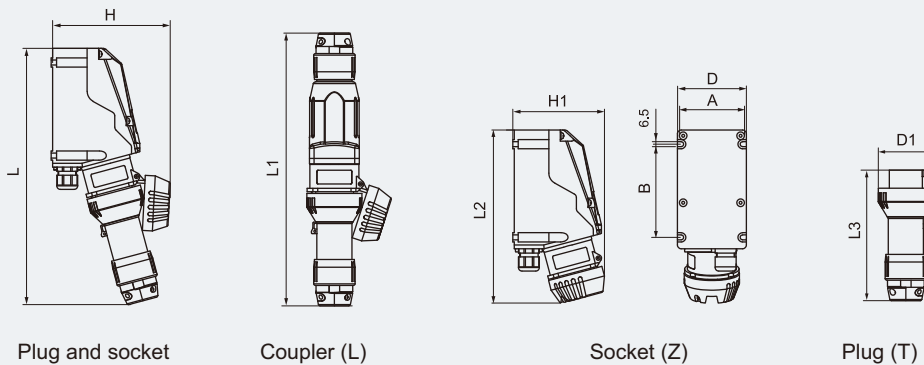
25~35 mm²

Accessories and spare parts

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering Code	Weight (kg)
	600 ~ 690	125	3P+PE		5	Black	30134	14.30
	480 ~ 500	125	3P+PE		7	Black	30135	14.30
	380 ~ 415	125	3P+N+PE		6	Red	30136	14.30
		125	3P+PE		6	Red	30137	14.30
	200 ~ 250	125	3P+N+PE		6	Blue	30138	14.30
		125	3P+PE		9	Blue	30139	14.30
	600 ~ 690	125	3P+PE		5	Black	30140	1.70
	480 ~ 500	125	3P+PE		7	Black	30141	1.70
	380 ~ 415	125	3P+N+PE		6	Red	30142	1.70
		125	3P+PE		6	Red	30143	1.70
	200 ~ 250	125	3P+N+PE		6	Blue	30144	1.70
		125	3P+PE		9	Blue	30145	1.70

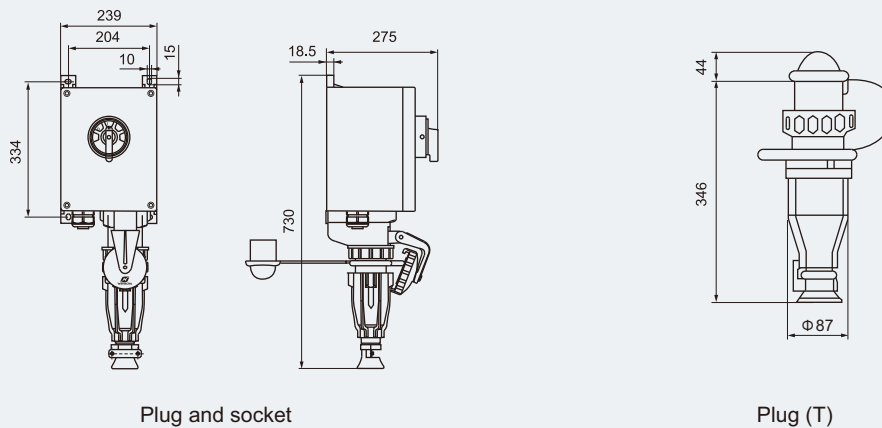
Plug and Sockets BCZ8060 Series Explosion-proof Plug and Sockets

Dimension drawings (all dimensions in mm) - subject to alteration

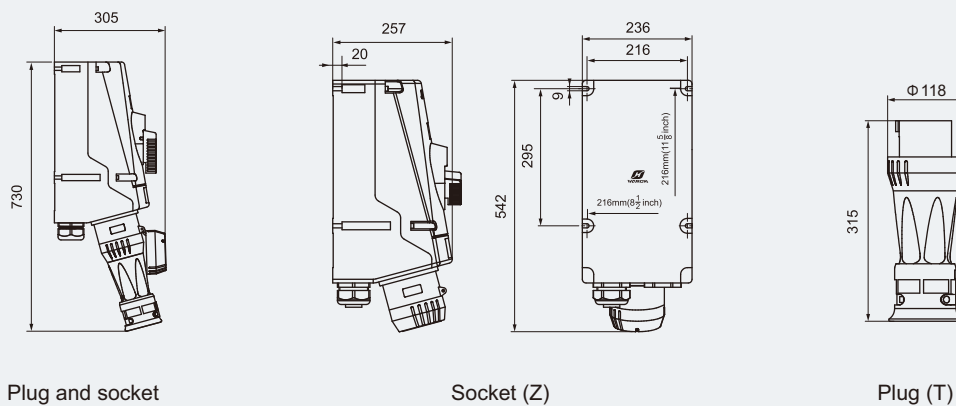


BCZ8060-16/□/□
BCZ8060-32/□/□

Version	L	H	L1	L2	H1	D	A	B	L3	D1
BCZ8060-16/□/(2P/3P)	336	154	356	227	120	90	80	122	171	72
BCZ8060-16/□/(4P/5P)	408	175	460	252	151	110	102	150	217	76.5
BCZ8060-32/□/□	460	209	514	283	171	120	113	169	253	95



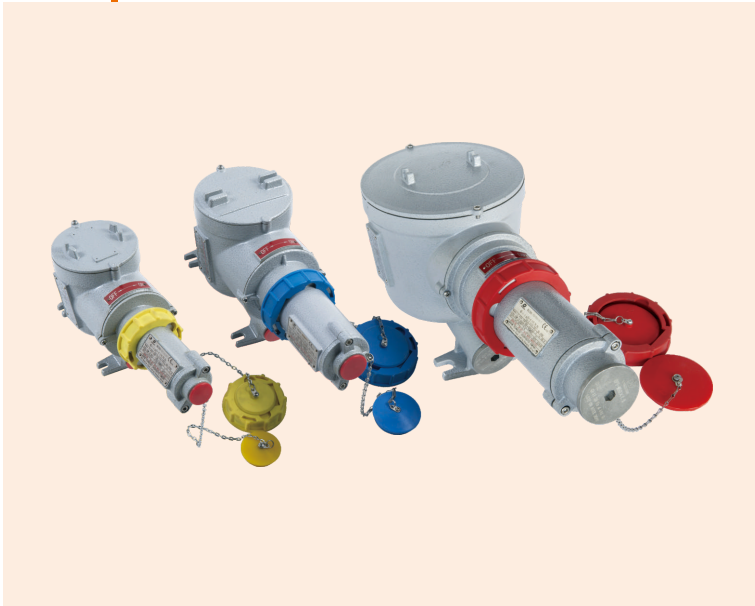
BCZ8060-63/□/□



BCZ8060-125/□/□

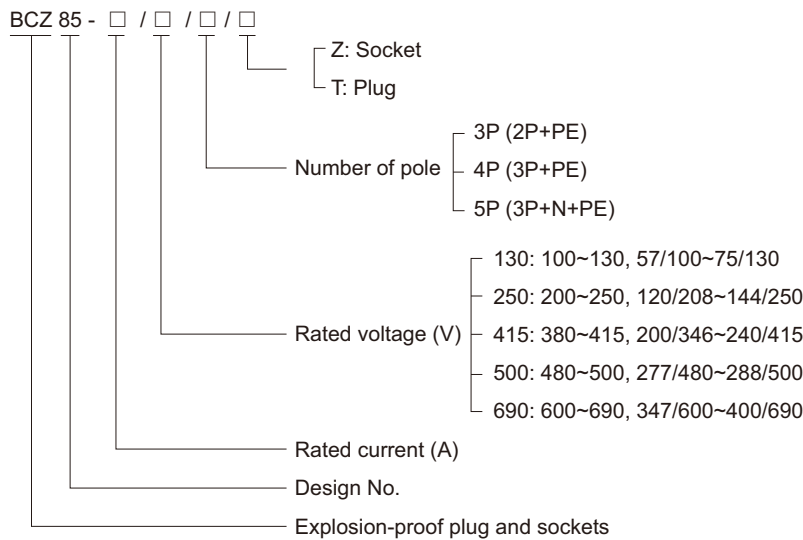


Plug and Sockets BCZ85 Series Explosion-proof Plug and Sockets



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 1, Groups A, B, C, D
- ◆ Four enclosure types; Four current ratings (16A, 32A, 63A, 125A); 3P, 4P or 5P.
- ◆ Plug can only be pulled out when switch is off; turn on the power after inserting the plug.
- ◆ Copper-free aluminium enclosure, powder coated surface.

■ Catalogue number logic



Zones 1&2; 21&22

Plug and Sockets

BCZ85 Series Explosion-proof Plug and Sockets

Selection table								
Version	Current (A)	Voltage (V)	Number of pole	Schematic diagram	h	Colour	Ordering code	Weight (kg)
 BCZ85-16/□/□	16	100~130	2P+PE		4	Yellow	30147	2.60
		200~250			6	Blue	30148	2.60
		100~130	3P+PE		4	Yellow	30149	2.60
		200~250			9	Blue	30150	2.60
		380~415			6	Red	30151	2.60
		480~500			7	Black	30152	2.60
		600~690			5	Black	30153	2.60
		57/100~75/130			4	Yellow	30154	3.40
		120/208~144/250	3P+N+PE		9	Blue	30155	3.40
		200/346~240/415			6	Red	30156	3.40
		277/480~288/500			7	Black	30157	3.40
		347/600~400/690			5	Black	30158	3.40
 BCZ85-32/□/□	32	200~250	2P+PE		6	Blue	30159	3.40
		200~250	3P+PE		9	Blue	30160	3.40
		380~415			6	Red	30161	3.40
		480~500			7	Black	30162	3.40
		600~690			5	Black	30163	3.40
		120/208~144/250	3P+N+PE		9	Blue	30164	3.40
		200/346~240/415			6	Red	30165	3.40
		277/480~288/500			7	Black	30166	3.40
347/600~400/690		5		Black	30167	3.40		
 BCZ85-63/□/□	63	200~250	3P+PE		9	Blue	30168	4.50
		380~415			6	Red	30169	4.50
		480~500			7	Black	30170	4.50
		600~690			5	Black	30171	4.50
		200/346~240/415	3P+N+PE		6	Red	30172	4.50
		277/480~288/500			7	Black	30173	4.50
 BCZ85-125/□/□	125	200~250	3P+PE		9	Blue	30174	20.0
		380~415			6	Red	30175	20.0
		480~500			7	Black	30176	20.0
		600~690			5	Black	30177	20.0
		200/346~240/415	3P+N+PE		6	Red	30178	20.0
		277/480~288/500			7	Black	30179	20.0



Plug and Sockets BCZ85 Series Explosion-proof Plug and Sockets

Technical data

Explosion-proof plug and sockets **BCZ85-16/□/□**

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex t IIIC T80°C Db IP66

Certificates

Nemko 12 ATEX 1044; IECEX CQM 12.0015; CU-TR

Conformity to standards

EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009
IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-31:2008

Enclosure material

Copper-free aluminium, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 690V AC

Rated current

16A

Number of pole

3P (2P+PE), 4P (3P+PE), 5P (3P+N+PE)

Degree of protection

IP66, IP67 (optional)

Ambient temperature

-60°C~+55°C

Cable entry of socket

2 x M25 x 1.5(3P/4P), 2 x M32 x 1.5(5P)

Cable entry of plug

1 x M25 x 1.5(3P/4P) , 1 x M32 x 1.5(5P)

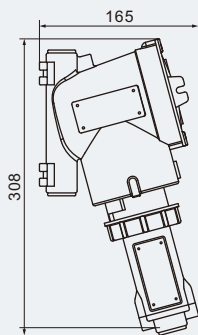
Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.

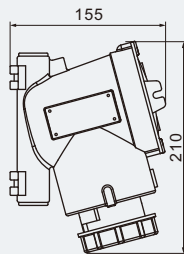
Cross section of cable

2.5~4 mm²

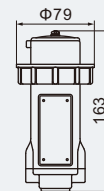
Dimension drawings (all dimensions in mm) - subject to alteration



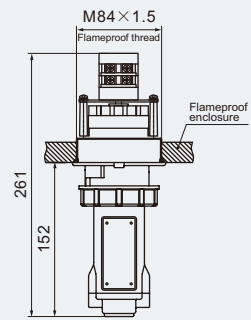
Plug and Sockets



Socket



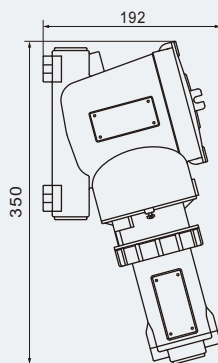
Plug



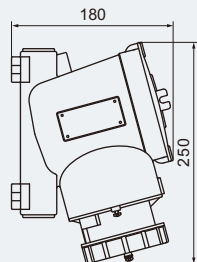
Install on the
flameproof enclosure

BCZ85-16/□/3P

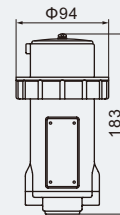
BCZ85-16/□/4P



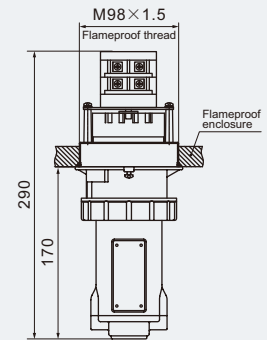
Plug and Sockets



Socket



Plug



Install on the
flameproof enclosure

BCZ85-16/□/5P

Plug and Sockets

BCZ85 Series Explosion-proof Plug and Sockets

Technical data

Explosion-proof plug and sockets **BCZ85-32/□/□**

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex t IIIC T80°C Db IP66

Certificates

Nemko 12 ATEX 1044; IECEx CQM 12.0015; CU-TR

Conformity to standards

EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009
IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-31:2008

Enclosure material

Copper-free aluminium, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 690V AC

Rated current

32A

Number of pole

3P (2P+PE), 4P (3P+PE), 5P (3P+N+PE)

Degree of protection

IP66, IP67 (optional)

Ambient temperature

-60°C~+55°C

Cable entry of socket

2 x M32 x 1.5

Cable entry of plug

1 x M32 x 1.5

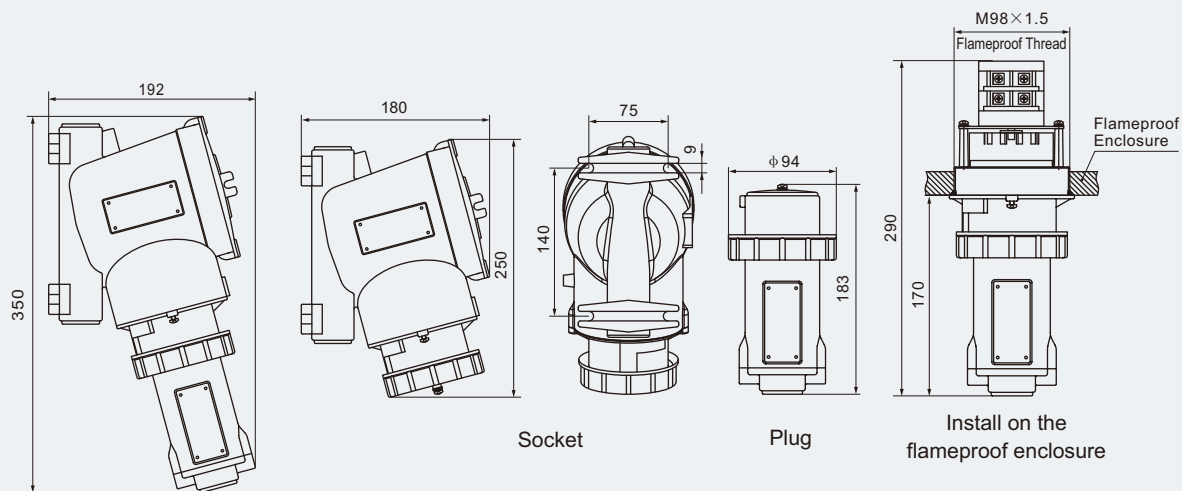
Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.

Cross section of cable

4~6 mm²

Dimension drawings (all dimensions in mm) - subject to alteration



Plug and Sockets

Socket

Plug

Install on the
flameproof enclosure

BCZ85-32/□/□



Plug and Sockets

BCZ85 Series Explosion-proof Plug and Sockets

Technical data

Explosion-proof plug and sockets BCZ85-63/□/□

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex t IIIC T80°C Db IP66

Certificates

Nemko 12 ATEX 1247; IECEx CQM 12.0043X; CU-TR

Conformity to standards

EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009
IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-31:2008

Enclosure material

Copper-free aluminium, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 690V AC

Rated current

63A

Number of pole

4P (3P+PE), 5P (3P+N+PE)

Degree of protection

IP66, IP67 (optional)

Ambient temperature

-60°C~+55°C

Cable entry of socket

2 x M40 x 1.5

Cable entry of plug

1 x M50 x 1.5

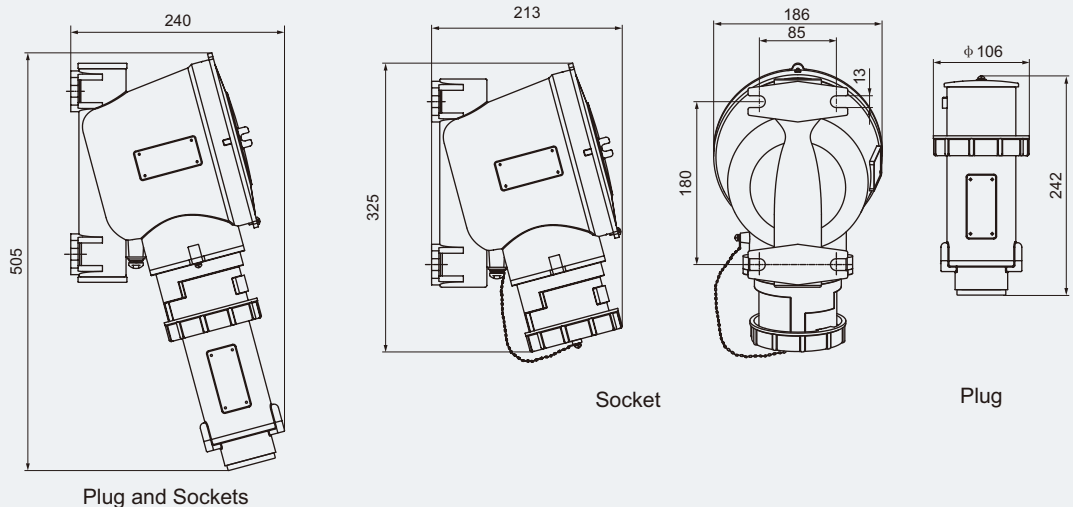
Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.

Cross section of cable

10~16 mm²

Dimension drawings (all dimensions in mm) - subject to alteration



BCZ85-63/□/□

Plug and Sockets

BCZ85 Series Explosion-proof Plug and Sockets

Technical data

Explosion-proof plug and sockets **BCZ85-125/□/□**

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex t IIIC T80°C Db IP66

Certificates

Nemko 13 ATEX 1531; IECEX CQM 13.0033X; CU-TR

Conformity to standards

EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009

IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-31:2008

Enclosure material

Copper-free aluminium, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 690V AC

Rated current

125A

Number of pole

4P (3P+PE), 5P (3P+N+PE)

Degree of protection

IP66, IP67 (optional)

Ambient temperature

-60°C~+55°C

Cable entry of socket

1 x M63 x 1.5

Cable entry of plug

1 x M50 x 1.5

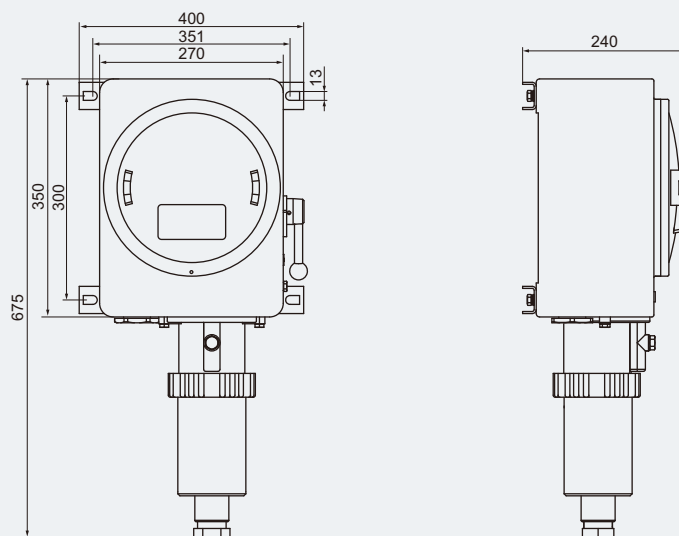
Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.

Cross section of cable

25~35 mm²

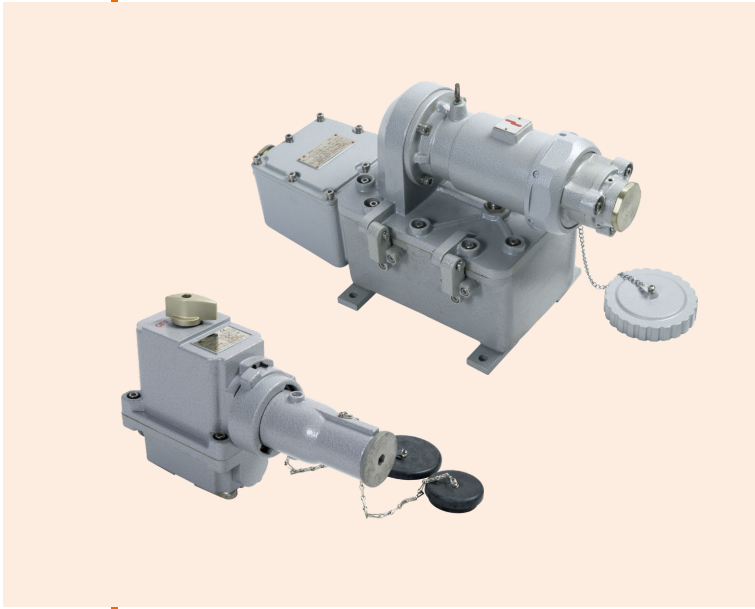
Dimension drawings (all dimensions in mm) - subject to alteration



BCZ85-125/□/□

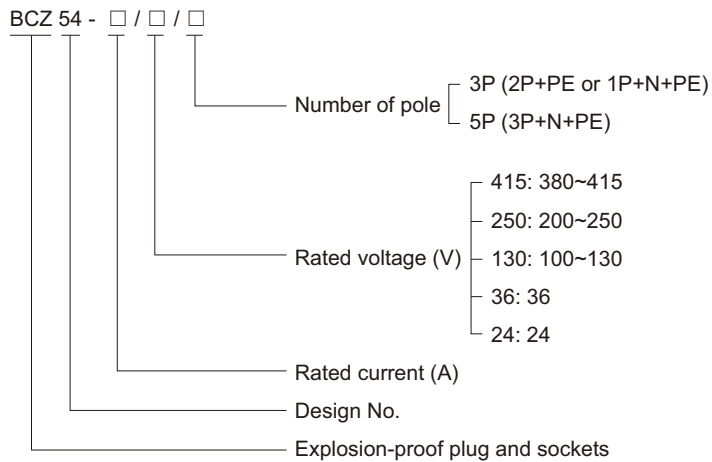


Plug and Sockets BCZ54 Series Explosion-proof Plug and Sockets



- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ 2 enclosure types; 4 current ratings (16A,32A,63A,100A); 3P or 5P.
- ◆ Plug can only be pulled out when switch is off; turn on the power after inserting the plug.
- ◆ Canopy is recommended for outdoor use.
- ◆ Copper-free aluminium enclosure, powder coated surface.

■ Catalogue number logic






Zones 1&2; 21&22

Plug and Sockets

BCZ54 Series Explosion-proof Plug and Sockets

Selection table

Version	Voltage (V)	Number of pole	Schematic diagram	Ordering code	Weight (kg)
 BCZ54-16/□/□	380~415	3P+N+PE		30011	3.25
	200~250	1P+N+PE		30012	3.10
	100~130	1P+N+PE		30013	3.10
	36	2P+PE		30014	3.10
	24	2P+PE		30015	3.10
 BCZ54-32/□/□	380~415	3P+N+PE		30016	3.35
	200~250	1P+N+PE		30017	3.20
	100~130	1P+N+PE		30018	3.20
	36	2P+PE		30019	3.20
	24	2P+PE		30020	3.20
 BCZ54-63/□/□	380~415	3P+N+PE		30021	30.30
 BCZ54-100/□/□	380~415	3P+N+PE		30022	30.30

Note: Plug and sockets are supplied as one complete set when ordering according to the above ordering code.

Plug and Sockets

BCZ54 Series Explosion-proof Plug and Sockets

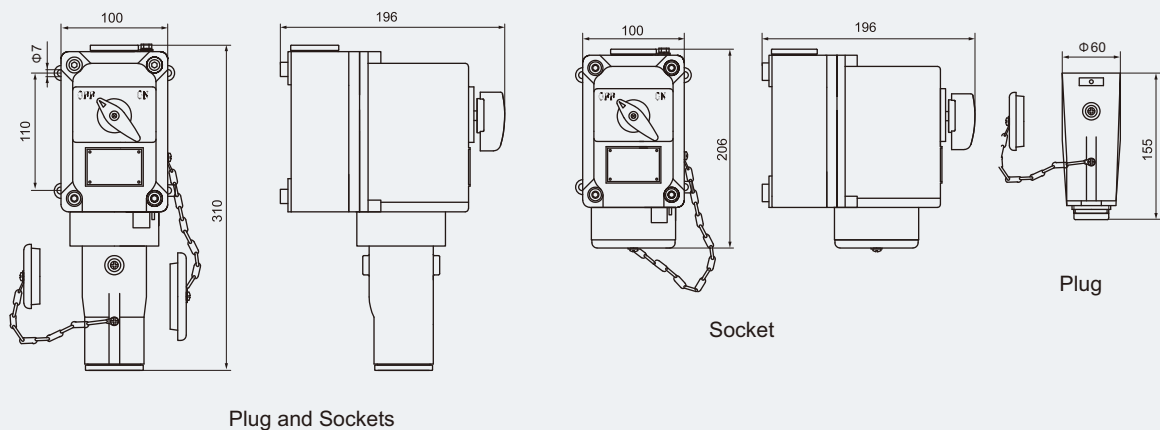
Technical data

Explosion-proof plug and sockets **BCZ54-16/□/□, BCZ54-32/□/□**

Explosion protection	$\text{Ex II 2 G Ex d e IIB T}^{1)}$ $\text{Ex d e IIB T}^{1})\text{Gb}$ ¹⁾ BCZ54-16/□/□: T6; BCZ54-32/□/□: T5					
Certificates	Nemko 09 ATEX 1013 IECEx CQM 11.0039					
Conformity to standards	EN 60079-0:2006, EN 60079-1:2004, EN 60079-7:2004 IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-7:2006					
Enclosure material	Copper-free aluminium, powder coated surface					
Enclosure colour	Window grey (RAL7040)					
Exposed fastener	Stainless steel					
Rated voltage	Max. 415V AC					
Rated current	16A, 32A					
Switch capacity	AC 3			AC 3		
Application	le(A)	Ue(V)	P(kW)	le(A)	Ue(V)	P(kW)
	16	380, 400, 415	7.5	32	380, 400, 415	15
	16	200, 230, 250	4.0	32	200, 230, 250	7.5
	16	100, 120, 130	2.0	32	100, 120, 130	4
	16	36	1.0	32	36	1.5
	16	24	0.5	32	24	1.0
Degree of protection	IP54 (IP65 with canopy)					
Ambient temperature	-20°C~+55°C					
Cable entry of socket	Standard 1 x G1" plug					
Cable entry of plug	Standard 1 x G1 1/4" plug					
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.					
Available cable outer diameter	Φ 12~Φ 19 (mm)					
Cable connection	16A: 3 x (2.5~4) mm ² or 5 x (2.5~4) mm ² 32A: 3 x (4~6) mm ² or 5 x (4~6) mm ²					



Dimension drawings (all dimensions in mm) - subject to alteration



BCZ54-16/□/□; BCZ54-32/□/□

Plug and Sockets

BCZ54 Series Explosion-proof Plug and Sockets

Technical data

Explosion-proof plug and sockets **BCZ54-63/□/□, BCZ54-100/□/□**

Explosion protection

Gas explosion protection

Ex II 2 G Ex d IIB T4 Gb Ex d IIB T4 Gb

Dust explosion protection

Ex II 2 D Ex tD A21 T130°C IP65 Ex t III B T130°C Db IP65

Certificates

Nemko 11 ATEX 1011

IECEX CQM 11.0024

Conformity to standards

EN 60079-0:2009, EN 60079-1:2007, EN 61241-1:2004
IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-31:2008

Enclosure material

Copper-free aluminium, powder coated surface

Enclosure colour

Window grey (RAL7040)

Exposed fastener

Stainless steel

Rated voltage

Max. 415V AC

Rated current

63A, 100A

Switch capacity

AC 3

AC 3

Application

le(A)	Ue(V)	P(kW)	le(A)	Ue(V)	P(kW)
63	380, 400, 415	30	100	380, 400, 415	37

Degree of protection

IP65

Ambient temperature

-20°C~+55°C

Cable entry of socket

Standard 1 x M63 x 1.5 plug

Cable entry of plug

Standard 1 x M63 x 1.5 plug

Cable gland (optional)

DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.

Available cable outer diameter

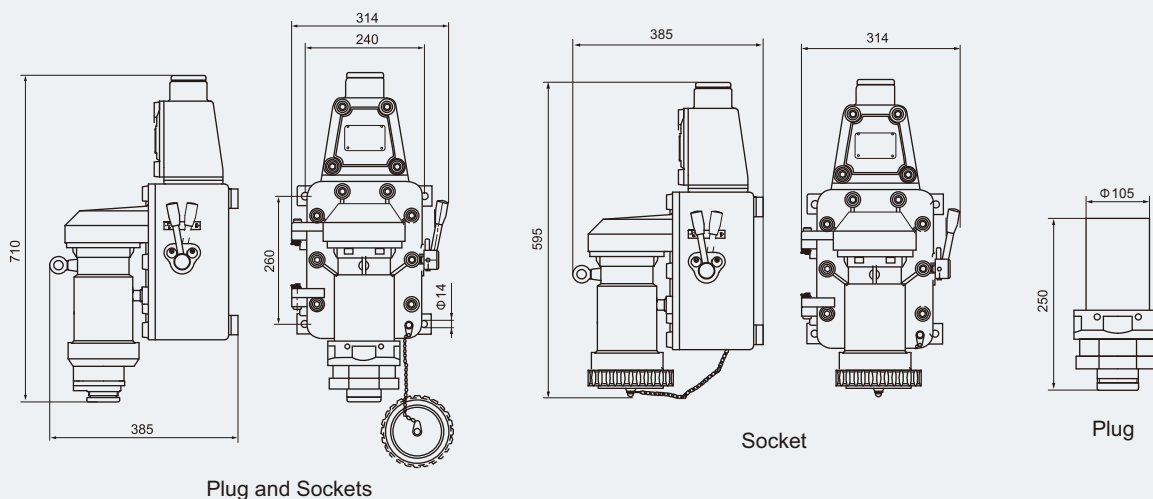
Φ25~Φ35 (mm)

Cable connection

63A: 5 x (10~16)mm²

100A: 5 x (16~25)mm²

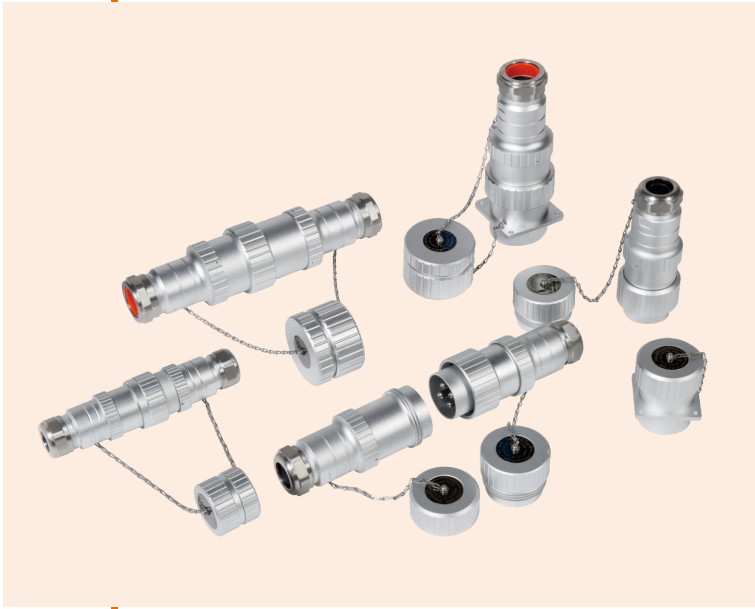
Dimension drawings (all dimensions in mm) - subject to alteration



BCZ54-63/□/□; BCZ54-100/□/□

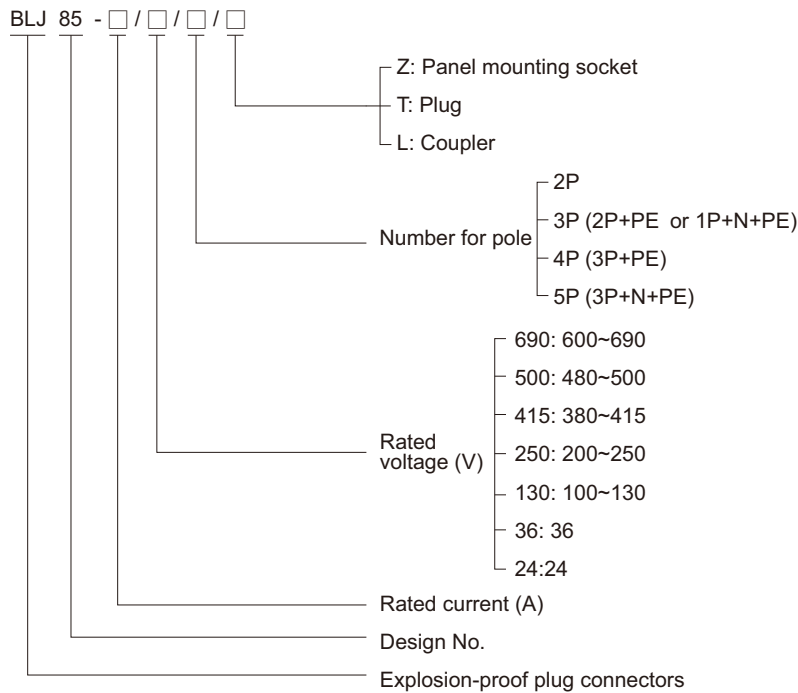


Plug and Sockets BLJ85 Series Explosion-proof Plug Connectors



- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ 4 enclosure types; 7 current ratings (10A, 16A, 25A, 32A, 63A, 80A, 100A, 125A); 2P, 3P, 4P and 5P.
- ◆ Copper-free aluminium enclosure, anodic-oxidation treatment for surface.

■ Catalogue number logic



Zones 1&2; 21&22

Plug and Sockets

BLJ85 Series Explosion-proof Plug Connectors

Technical data

Explosion-proof plug connectors BLJ85 - □ / □ / □ / □

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d e IIC T6 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP66

Certificates

EPT 15 ATEX _____; IECEX

Conformity to standards

EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009
IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008

Enclosure material

Copper-free aluminium, anodic-oxidation treatment for surface

Exposed fastener

Stainless steel

Rated voltage

AC 380V~415V, 200V~250V, 100V~130V

DC/AC 36V, 24V

Rated current

10A, 16A

Degree of protection

IP66











Ambient temperature

-60°C~+55°C

Cable gland

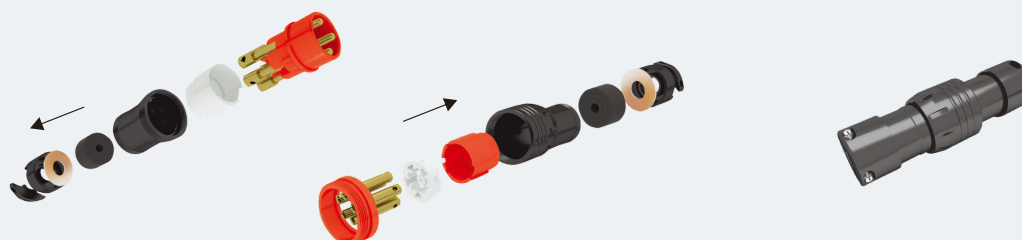
Standard 1 x M25 x 1.5 cable gland, suitable for cables of $\Phi 9\sim\Phi 14$ (mm)

Selection table

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering code	Weight (kg)
 BLJ85-10/□/□ BLJ85-16/□/□	100~130	10/16	1P+N+PE		4	Yellow	30180	0.30
	200~250	10/16	2P+PE		6	Blue	30181	0.30
	200~250	10/16	3P+PE		6	Red	30182	0.30
	380~415	10/16	3P+PE		9	Blue	30183	0.30
	380~415	10/16	3P+N+PE		6	Red	30184	0.32
	AC36 DC36	10/16	2P		/	White	30185	0.30
	AC36 DC36	10/16	2P+PE		6	White	30186	0.30
	AC24 DC24	10/16	2P		/	Violet	30187	0.30
	AC24 DC24	10/16	2P+PE		6	Violet	30188	0.30



Installation method



Plug and Sockets

BLJ85 Series Explosion-proof Plug Connectors

Technical data

Explosion-proof plug connectors BLJ85 - □ / □ / □ / □

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d e IIC T4 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP66

Certificates

EPT 15 ATEX _____; IECEX

Conformity to standards

EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009
IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008

Enclosure material

Copper-free aluminium, anodic-oxidation treatment for surface

Exposed fastener

Stainless steel

Rated voltage

AC 600V~690V, 480V~500V, 380V~415V, 200V~250V

Rated current

25A, 32A, 63A, 80A, 100A, 125A

Degree of protection

IP66






















Ambient temperature

-60°C~+55°C

Cable gland

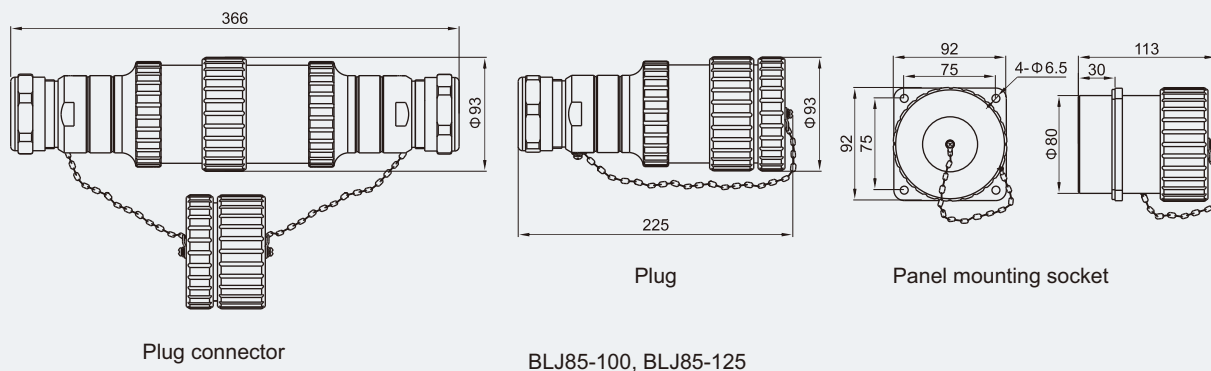
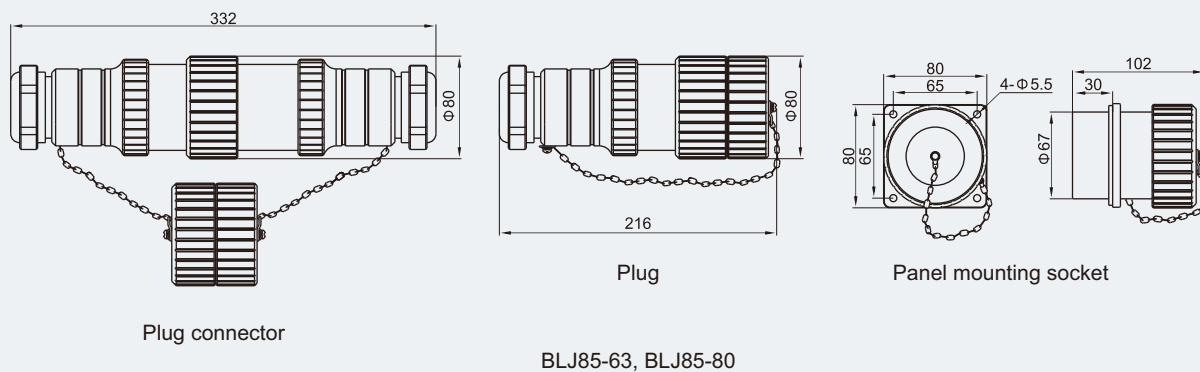
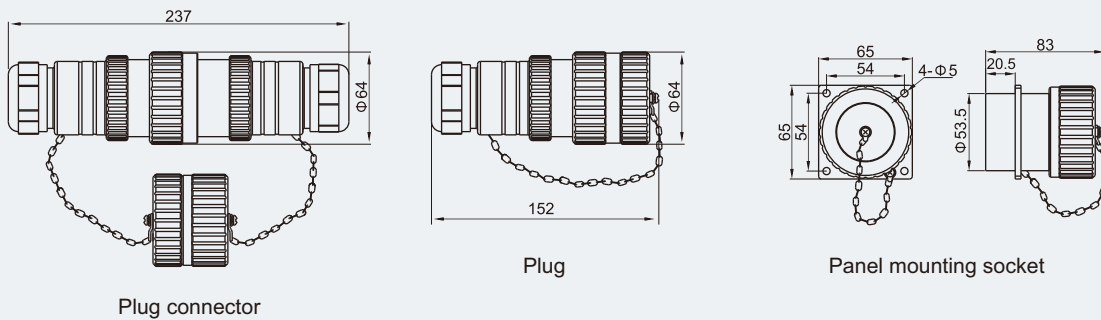
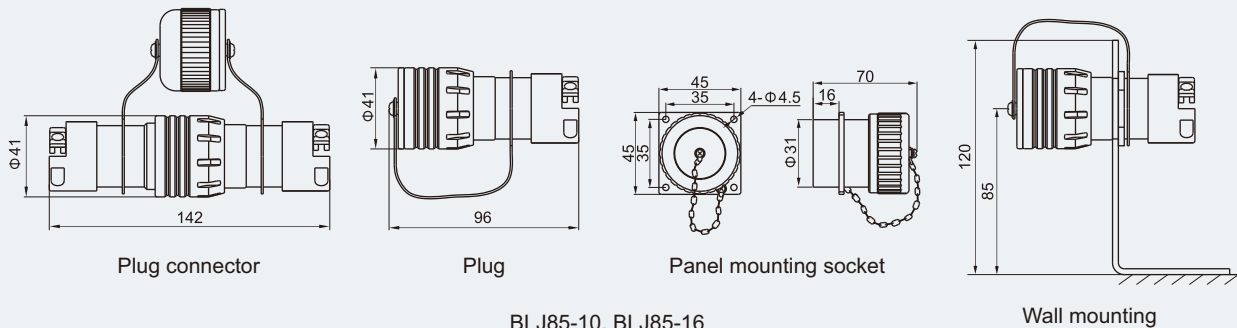
25A/32A	63A/80A	100A/125A
Φ 17~Φ 24	Φ 22~Φ 32	Φ 28~Φ 41

Selection table

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering code	Weight (kg)
BLJ85-25/□/□ BLJ85-32/□/□ 	200~250	25/32	3P+PE		9	Blue	30189	1.10
	200~250	25/32	3P+N+PE		6	Blue	30190	1.20
	380~415	25/32	3P+PE		6	Red	30191	1.10
	380~415	25/32	3P+N+PE		6	Red	30192	1.20
	480~500	25/32	3P+PE		7	Black	30193	1.10
	600~690	25/32	3P+PE		5	Black	30194	1.10
BLJ85-63/□/□ BLJ85-80/□/□ 	200~250	63/80	3P+PE		7	Blue	30195	1.80
	200~250	63/80	3P+N+PE		6	Blue	30196	1.85
	380~415	63/80	3P+PE		6	Red	30197	1.80
	380~415	63/80	3P+N+PE		6	Red	30198	1.85
	480~500	63/80	3P+PE		7	Black	30199	1.80
	600~690	63/80	3P+PE		5	Black	30200	1.80
BLJ85-100/□/□ BLJ85-125/□/□ 	200~250	100/125	3P+PE		7	Blue	30201	2.50
	200~250	100/125	3P+N+PE		6	Blue	30202	2.60
	380~415	100/125	3P+PE		6	Red	30203	2.50
	380~415	100/125	3P+N+PE		6	Red	30204	2.60
	480~500	100/125	3P+PE		7	Black	30205	2.50
	600~690	100/125	3P+PE		5	Black	30206	2.50

Plug and Sockets BLJ85 Series Explosion-proof Plug Connectors

Dimension drawings (all dimensions in mm) - subject to alteration

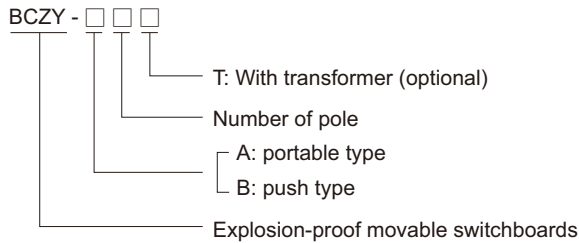


Plug and Sockets BCZY Series Explosion-proof Movable Switchboards

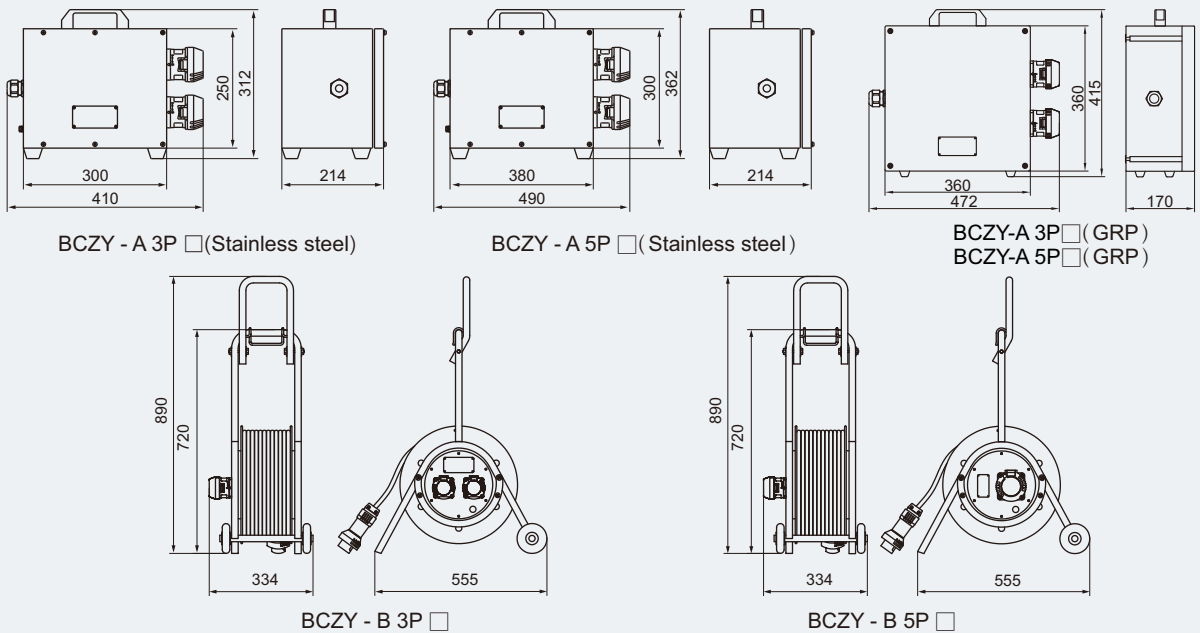


- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Type A (portable type) and type B (push type) for option.
- ◆ The enclosure of type A (portable type) : Stainless steel or GRP (glass fibre-reinforced polyester resin), the Max. transformer capacity of stainless steel product: 1000VA; the Max. transformer capacity of GRP product: 300VA
- ◆ Several kinds of voltage for option.
- ◆ Portable type is equipped with 5m cable; push type is equipped with 20m cable; also can be customized on request.
- ◆ Type A with transformer function.

■ Catalogue number logic



Dimension drawings (all dimensions in mm) - subject to alteration



Zones 1&2; 21&22

Plug and Sockets

BCZY Series Explosion-proof Movable Switchboards

Technical data

Explosion-proof movable switchboards BCZY-□□

Explosion protection

Gas explosion protection

⊕ II 2 G Ex d e IIC T4 Gb

Dust explosion protection

⊕ II 2 D Ex tb IIIC T80°C Db IP65

Certificates

LCIE 15 ATEX____; IECEX

Conformity to standards

EN 60079-0: 2012, EN 60079-1: 2007, EN 60079-7: 2007, EN 60079-31: 2009
IEC 60079-0: 2011, IEC 60079-1: 2007, IEC 60079-7: 2006, IEC 60079-31: 2008

Material

Enclosure (Portable type)

Stainless steel or GRP

Plug and flange type socket

GRP (glass fibre-reinforced polyester resin)

Exposed fastener

Stainless steel

Quantity of inserting holes/plugs

3P (2P+PE or 1P+N+PE), 5P(3P+N+PE)

Rated voltage

3P : 200~250V AC, 5P : 380~415V AC

Rated current

16A

Degree of protection

IP65

Ambient temperature

-20°C~+55°C

Cable entries

Portable type: 1 x M25 x 1.5 cable gland (DQM-I Ex e, Stainless steel)

Weight

Portable type

Stainless steel: 8.40 kg (equipped with 5m cable); GRP: 5.10kg (equipped with 5m cable)

Push type

13.60kg (equipped with 20m cable)

Explosion-proof movable switchboards BCZY-□□T

Rated primary voltage

3P: 200~250VAC 50Hz (60Hz: optional); 5P: 380~415VAC 50Hz (60Hz: optional)

Rated secondary voltage

6V, 24V, 110V, 127V, 220V

Capacity

300VA, 500VA, 1000VA (Note: The Max transformer capacity of portable type GRP product is only 300VA)

Weight

Portable type

Stainless steel: 19.40 kg (equipped with 5m cable); GRP: 14.50kg (equipped with 5m cable)

Push type

25.20kg (equipped with 20m cable)



Electrical schematic diagram

