

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

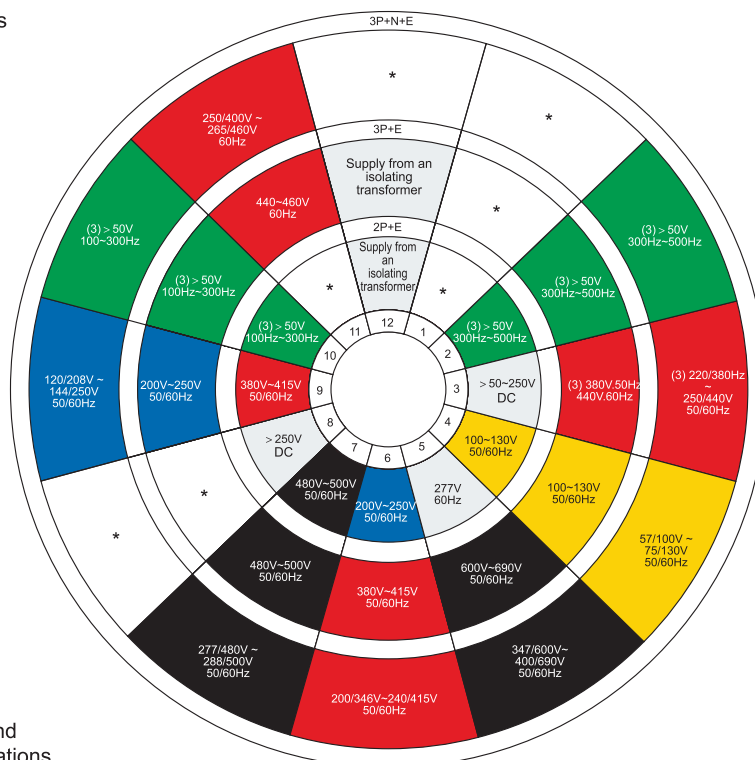
Voltage (V)	Frequency (Hz)	1P+N+PE		2P+PE		3P+PE		3P+N+PE	
		16A, 32A	63A, 125A	16A, 32A	63A, 125A	16A, 32A	63A, 125A	16A, 32A	63A, 125A
57/110 ~ 75/130	50 / 60							4	4
100 ~ 130	50 / 60	4	4	4	4	4	4		
120/208 ~ 144/250	50 / 60							9	9
200 ~ 250	50 / 60			6	6	9	9		
200/346 ~ 240/415	50 / 60							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

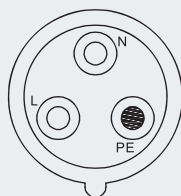
(3) Non standard



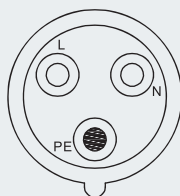
* Clock positions not normed and free for use for special applications.

Plug and Sockets General

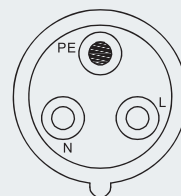
View: Front side socket or connector



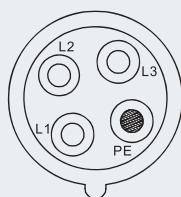
2P+PE 4h
100V~130V



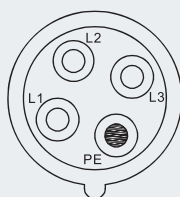
2P+PE 6h
200V~250V



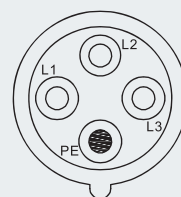
2P+PE 12h
< DC50V



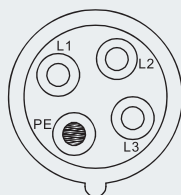
3P+PE 4h
100V~130V



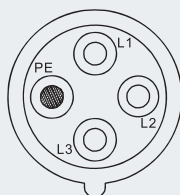
3P+PE 5h
600V~690V



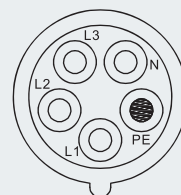
3P+PE 6h
380V~415V



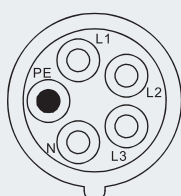
3P+PE 7h
480V~500V



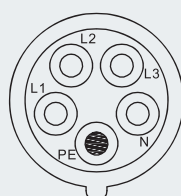
3P+PE 9h
200V~250V



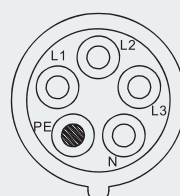
3P+N+PE 4h
57/100V~75/130V



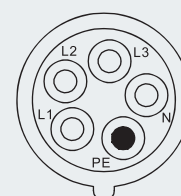
3P+N+PE 9h
120/208V~144/250V



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



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



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



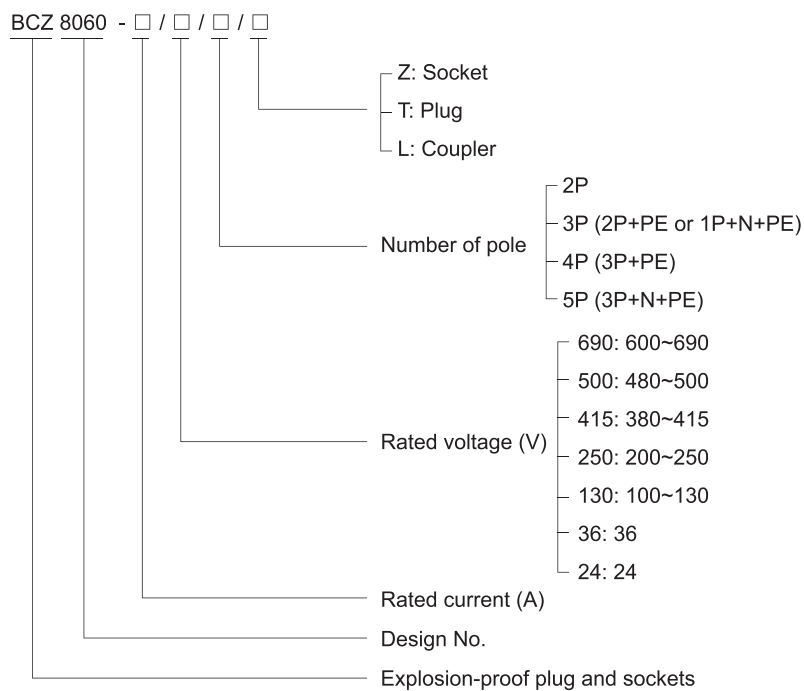
Note: Above drawings show the relationships among the clock position, voltage and pole number of our BCZ8060 series, BCZ85 series and BLJ85 series standard products. The clock position indicates the direction by plughole of socket or connector.

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)
BCZ8060-16/□/□ 	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	
BCZ8060-32/□/□ 	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
BCZ8060-63/□/□ 	380~415	63	3P+N+PE	/	/	30065	14.90
		63	3P+PE	/	/	30066	14.90
	200~250	63	1P+N+PE	/	/	30067	14.90
BCZ8060-125/□/□ 	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
		380 ~ 415	16	3P+N+PE		6	Red	30100
	200 ~ 250		16	3P+PE		6	Red	30101
		16	3P+N+PE		6	Blue	30102	1.30
			3P+PE		9	Blue	30103	1.30
		16	2P+PE		6	Blue	30104	1.30
	100 ~ 130		16	1P+N+PE		4	Yellow	30105
		36	16	2P+PE		12	Violet	30106
	16		2P			Violet	30107	1.25
		24	16	2P+PE		12	Violet	30108
	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	0.35
	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



Plug and Sockets

BCZ8060 Series Explosion-proof Plug and Sockets

Technical data

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

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 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 600V~690V, 480V~500V, 380V~415V, 200V~250V
Rated current		32A
Degree of protection		IP65
Ambient temperature		T5 for Tamb: -20°C~+40°C, T4/T80°C for Tamb: -20°C~+55°C
Cable entries		Standard 1 x M40 x 1.5 cable gland (plastic), 1 x M40 x 1.5 plug(plastic)
Cable gland (optional)		DQM-I (Ex e) is recommended. Please see P7/16.
Cross section of cable		4~6 mm ²



Accessories and spare parts

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering Code	Weight (kg)
32A Socket 	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
32A Plug 	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
32A Coupler 	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)








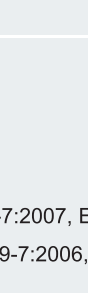






Cable gland (optional)

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

Cross section of cable

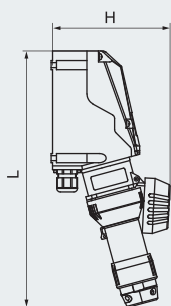
25~35 mm²

Accessories and spare parts

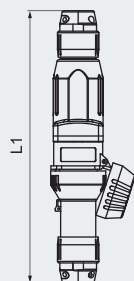
Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering Code	Weight (kg)
 125A Socket	600 ~ 690	125	3P+PE		5	Black	30134	14.30
	480 ~ 500	125	3P+PE		7	Black	30135	14.30
	380 ~ 415	125	3P+N+PE		6	Red	30136	14.30
		125	3P+PE		6	Red	30137	14.30
	200 ~ 250	125	3P+N+PE		6	Blue	30138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

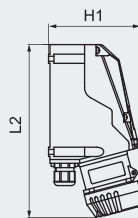
Dimension drawings (all dimensions in mm) - subject to alteration



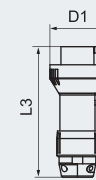
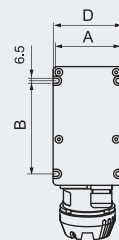
Plug and socket



Coupler (L)



Socket (Z)

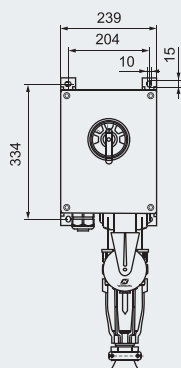


Plug (T)

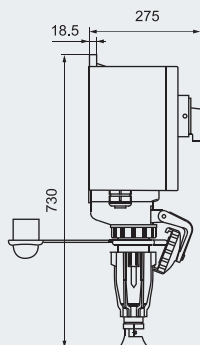
BCZ8060-16/□/□

BCZ8060-32/□/□

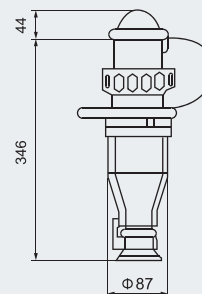
Version	L	H	L1	L2	H1	D	A	B	L3	D1
BCZ8060-16/□/(2P/3P)	336	154	356	227	120	90	80	122	171	72
BCZ8060-16/□/(4P/5P)	408	175	460	252	151	110	102	150	217	76.5
BCZ8060-32/□/□	460	209	514	283	171	120	113	169	253	95



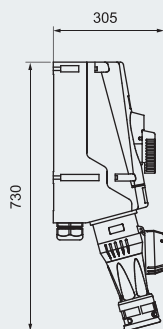
Plug and socket



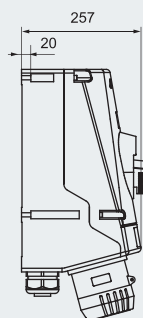
BCZ8060-63/□/□



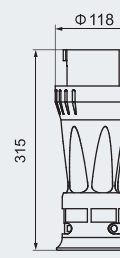
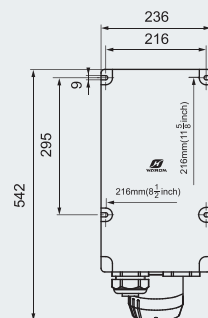
Plug (T)



Plug and socket



Socket (Z)



Plug (T)

BCZ8060-125/□/□



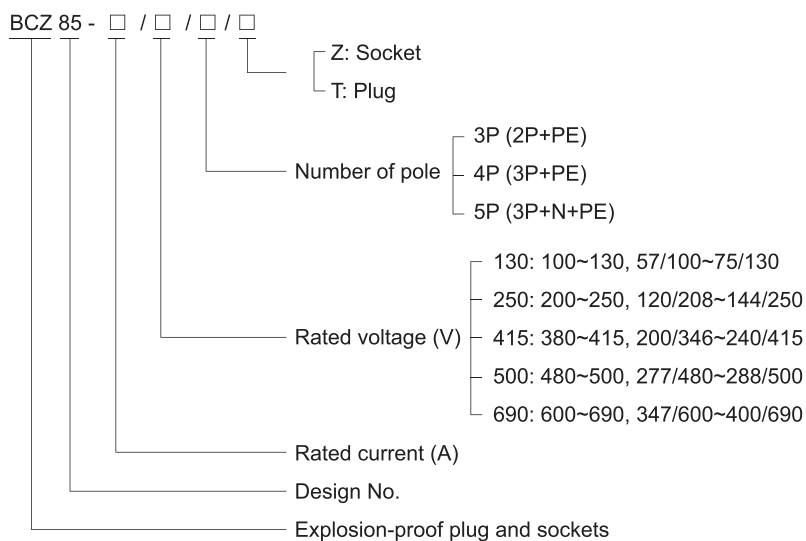
Plug and Sockets

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)
	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		3P+N+PE		4	Yellow	30154
		120/208~144/250			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
			32	200~250	2P+PE		6	Blue
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
		63	200~250	3P+PE		9	Blue	30168
	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
	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
- Dust explosion protection

- ⊕ II 2 G Ex d IIC T6 Gb
- ⊕ 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)

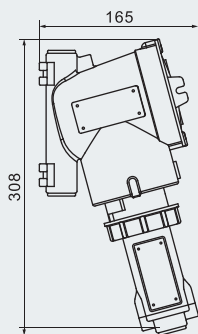
Cable gland (optional)

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

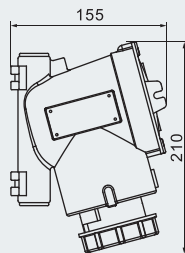
Cross section of cable

2.5~4 mm²

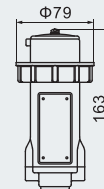
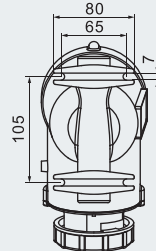
Dimension drawings (all dimensions in mm) - subject to alteration



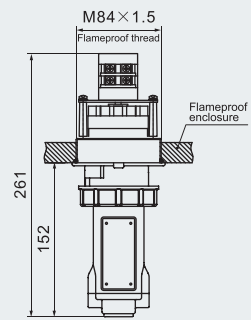
Plug and Sockets



Socket



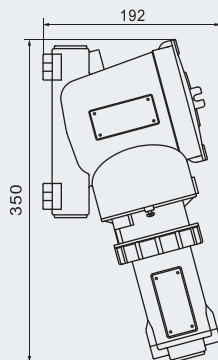
Plug



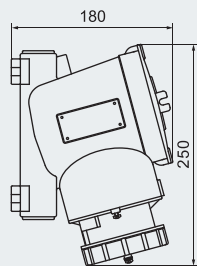
Install on the flameproof enclosure

BCZ85-16/□/3P

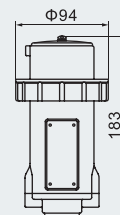
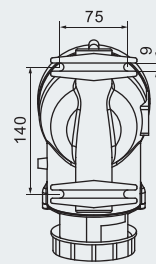
BCZ85-16/□/4P



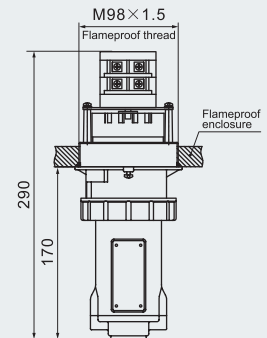
Plug and Sockets



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

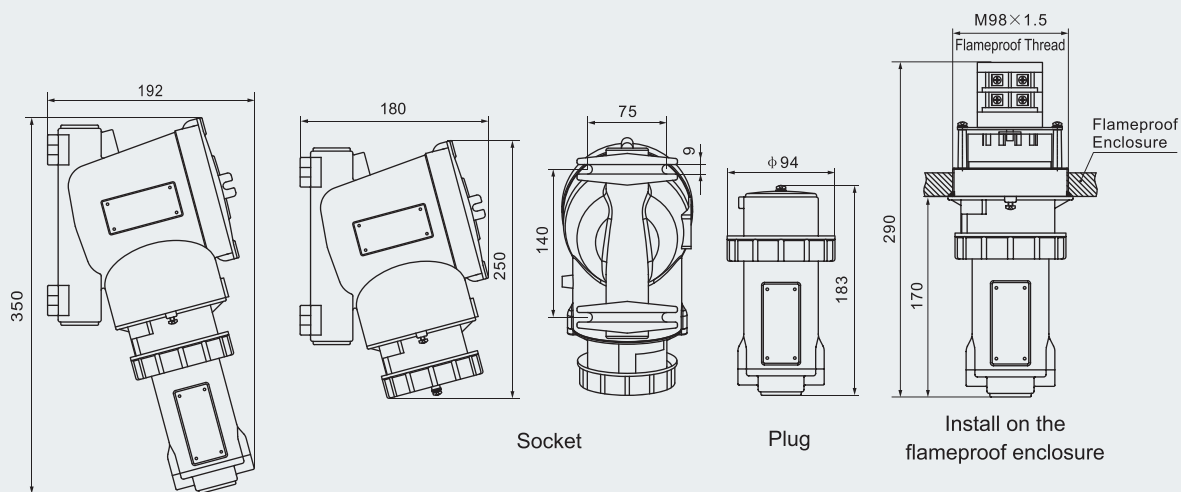
Cable gland (optional)

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

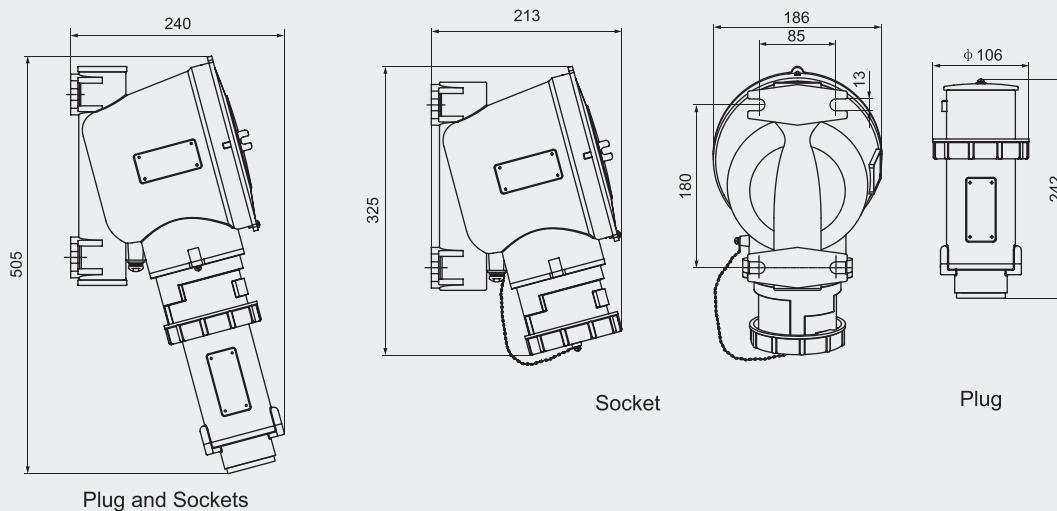
Cable gland (optional)

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

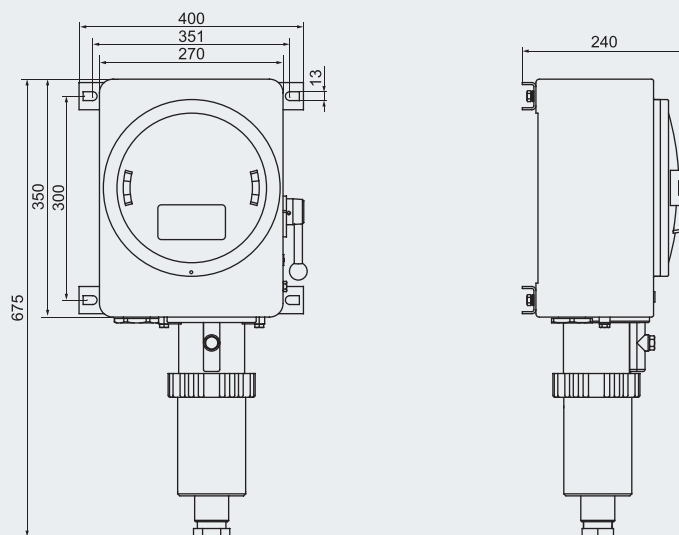
Cable gland (optional)

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/□/□



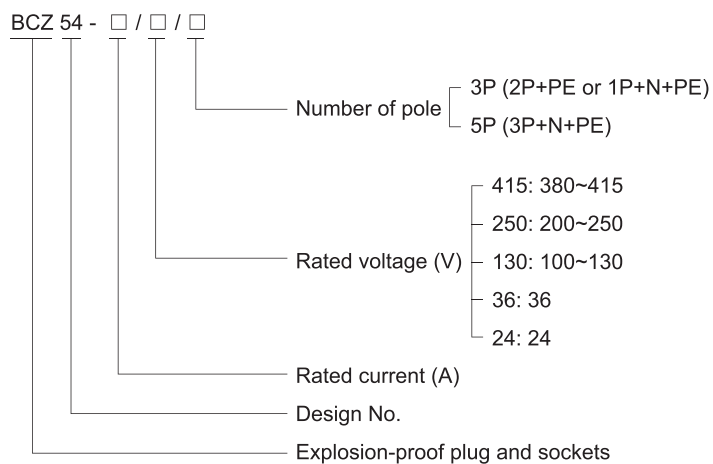
Plug and Sockets

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

Ex II 2 G Ex d e IIB T¹ Ex d e IIB T¹ 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

Application

AC 3			AC 3		
Ie(A)	Ue(V)	P(kW)	Ie(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)

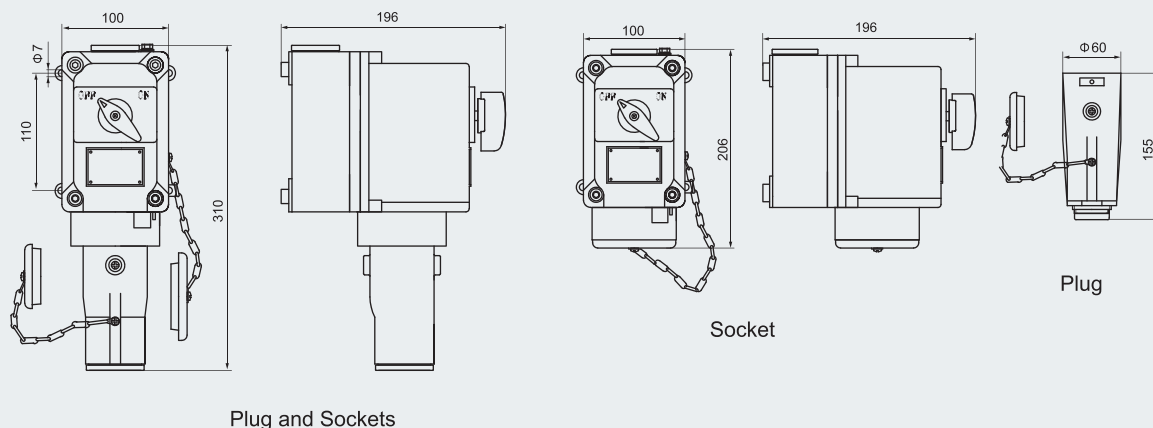
Cable connection

16A: 3 x (2.5~4) mm² or 5 x (2.5~4) mm²

32A: 3 x (4~6) mm² or 5 x (4~6) mm²



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

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

Dust explosion protection

⊕ II 2 D Ex tD A21 T130°C IP65 Ex t IIIB 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

AC 3			AC 3		
Ie(A)	Ue(V)	P(kW)	Ie(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)

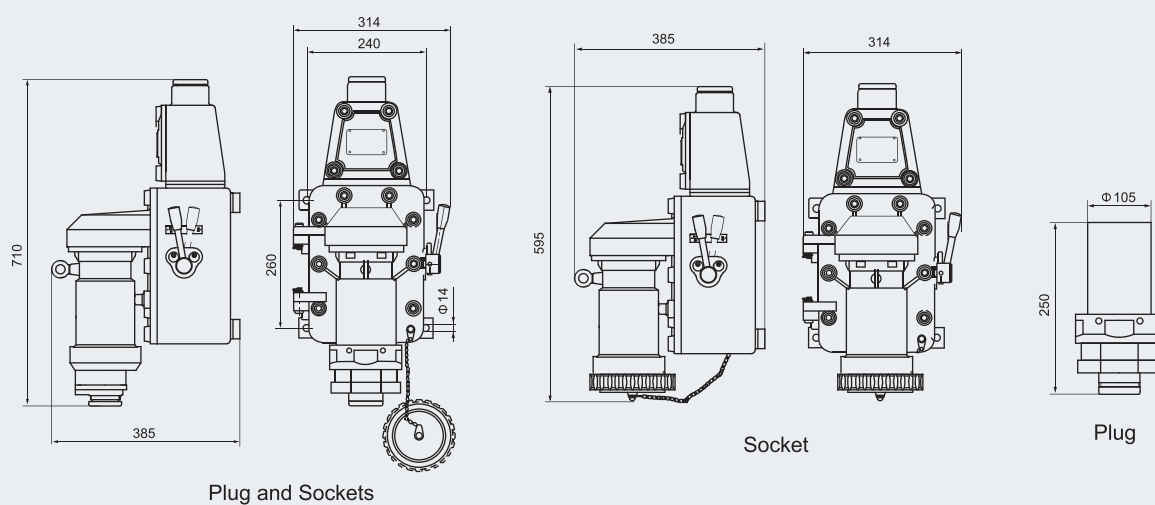
Cable connection

63A: 5 x (10~16)mm²

100A: 5 x (16~25)mm²



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



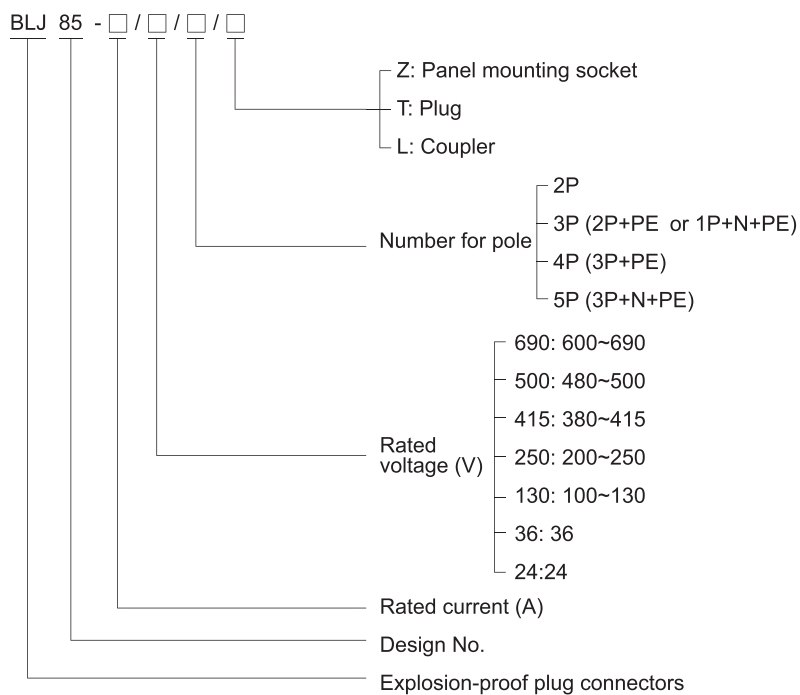
BCZ54-63/□/□; BCZ54-100/□/□

Plug and Sockets BLJ85 Series Explosion-proof Plug Connectors



- ◆ Explosion protection to
 - GENELEC
 - 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

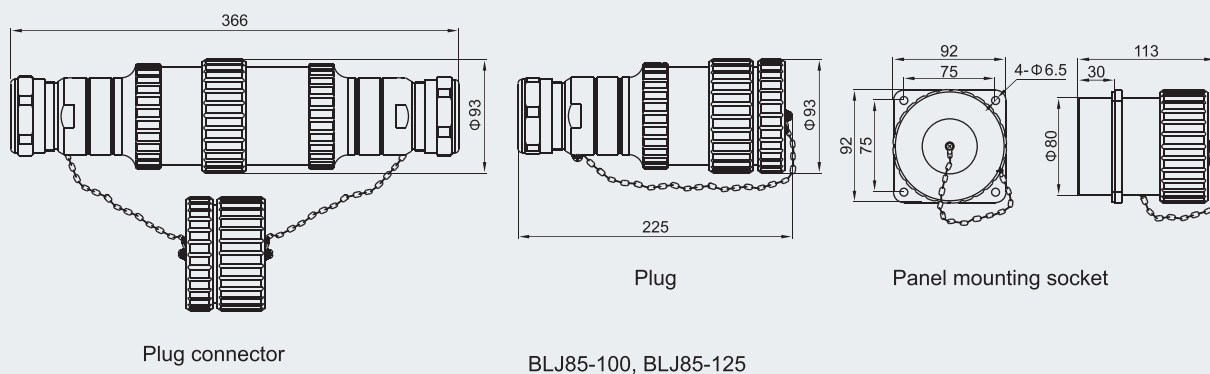
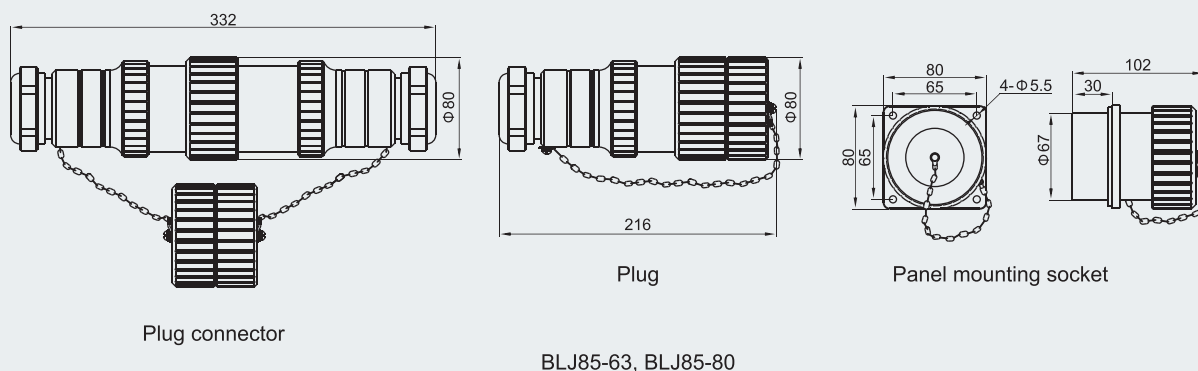
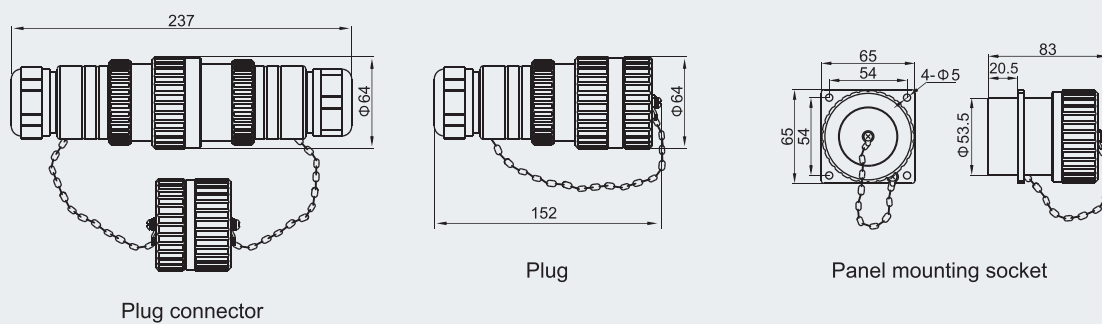
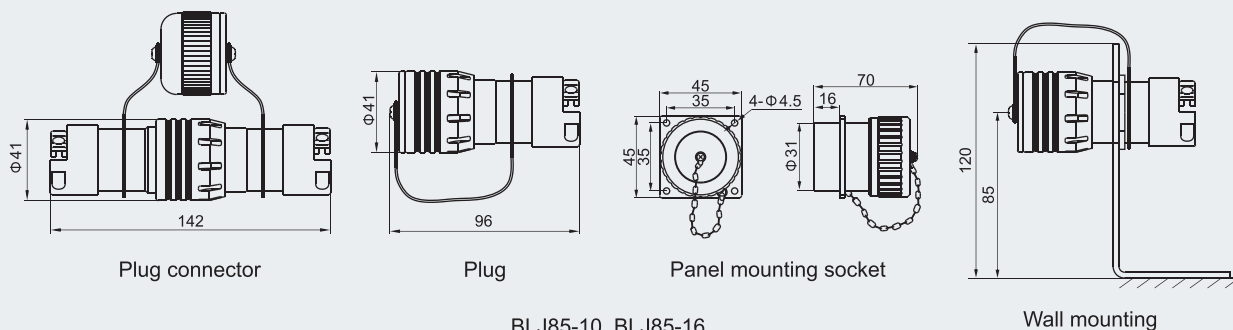
25A/32A	63A/80A	100A/125A
Φ 17~Φ 24	Φ 22~Φ 32	Φ 28~Φ 41

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

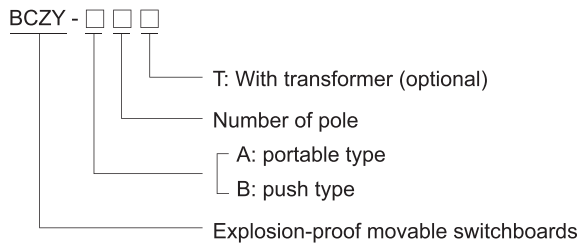


Plug and Sockets BCZY Series Explosion-proof Movable Switchboards

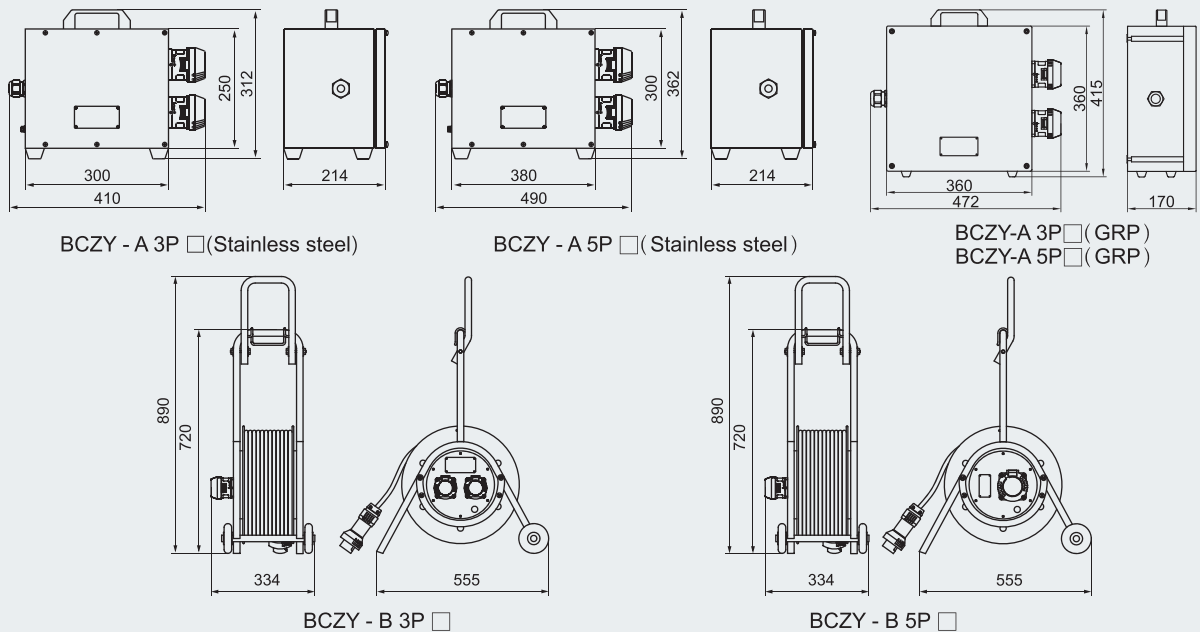


- ◆ Explosion protection to
 - CENELEC
 - IEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- ◆ Type A (portable type) and type B (push type) for option.
- ◆ The enclosure of type A (portable type) : Stainless steel or GRP (glass fibre-reinforced polyester resin), the Max. transformer 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

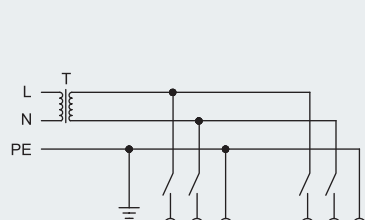
Stainless steel: 19.40 kg (equipped with 5m cable); GRP: 14.50kg (equipped with 5m cable)

Push type

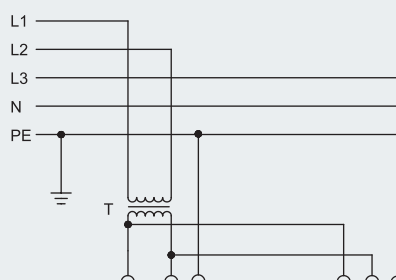
25.20kg (equipped with 20m cable)



Electrical schematic diagram



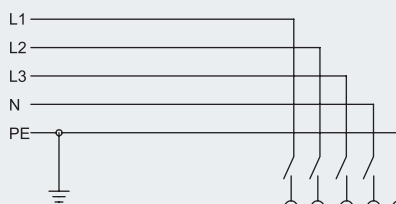
2 x 3 -pole
BCZY - A 3P □



2 x 3 -pole
BCZY - A 5P □



2 x 3 -pole
BCZY - B 3P □



1 x 5 -pole
BCZY - B 5P □