

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.
- ◆ Only the switch in the socket cut off can plug be pulled out, power after inserting the plug.
- ◆ GRP (glass fibre-reinforced polyester resin).

■ Catalogue number logic

BCZ 8060 - □ / □ / □ / □

Z: Socket
T: Plug
L: Coupler

Number of pole

2P
3P (2P+PE or 1P+N+PE)
4P (3P+PE)
5P (3P+N+PE)

Rated voltage (V)

690: 600~690
500: 480~500
415: 380~415
250: 200~250
130: 100~130
50: 50~250
48: 12~48

Rated current (A)

Design No.

Explosion-proof plug and sockets

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(10)	3P+PE		7	30048	1.85
	380 ~ 415		3P+N+PE		6	30049	1.85
			3P+PE		6	30050	1.85
			3P+N+PE		6	30051	1.85
	200 ~ 250		3P+PE		9	30052	1.85
			2P+PE		6	30053	1.85
	100 ~ 130		1P+N+PE		4	30054	1.85
	50 ~ 250		2P+PE		12	30055A	1.80
			2P			30056A	1.80
	12 ~ 48		2P+PE		12	30057A	1.80
			2P			30058A	1.80
BCZ8060-32/□/□ 	600 ~ 690	32(20)	3P+PE		5	30059	2.85
	480 ~ 500		3P+PE		7	30060	2.85
	380 ~ 415		3P+N+PE		6	30061	2.85
			3P+PE		6	30062	2.85
	200 ~ 250		3P+N+PE		6	30063	2.85
			3P+PE		9	30064	2.85
	BCZ8060-63/□/□ 		600 ~ 690	63 (50), (60)	3P+PE		5
480 ~ 500		3P+PE			7	30081	16.00
380 ~ 415		3P+N+PE			6	30065	16.00
		3P+PE			6	30066	16.00
200 ~ 250		3P+N+PE			6	30067A	16.00
		3P+PE			9	30067B	16.00
BCZ8060-125/□/□ 		600 ~ 690	125(100)		3P+PE		5
	480 ~ 500	3P+PE			7	30069	16.00
	380 ~ 415	3P+N+PE			6	30070	16.00
		3P+PE			6	30071	16.00
	200 ~ 250	3P+N+PE			6	30072	16.00
		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

Global (IECEX)

IECEX CNEX 21.0004X

Gas and dust

Ex db eb IIC T6 Gb

Ex tb IIIC T80°C Db IP66

Europe (ATEX)

CNEX 21 ATEX 0003X

Gas and dust

Ex II 2 G Ex db eb IIC T6 Gb

Ex II 2 D Ex tb IIIC T80°C Db IP66

Certificates

IECEX; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31

Enclosure material

GRP (glass fibre-reinforced polyester resin)

Exposed fastener

Stainless steel

Rated voltage

AC 480V~500V, 380V~415V, 200V~250V, 100V~130V, 12V~48V

DC 50V~250V, 12V~48V

Rated current

10A, 16A

Degree of protection

IP66

Ambient temperature

-20°C~+55°C

Cable entries (Socket)

Standard 1 x M25x1.5 cable gland(plastic), 1 x M25x1.5 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)
	480 ~ 500	16(10)	3P+PE		7	Black	30099	1.30
	380 ~ 415		3P+N+PE		6	Red	30100	1.30
			3P+PE		6	Red	30101	1.30
			3P+N+PE		6	Blue	30102	1.30
	200 ~ 250		3P+PE		9	Blue	30103	1.30
			2P+PE		6	Blue	30104	1.30
	100 ~ 130		1P+N+PE		4	Yellow	30105	1.30
	50 ~ 250		2P+PE		12	Violet	30106A	1.25
			2P			Violet	30107A	1.25
	12 ~ 48		2P+PE		12	Violet	30108A	1.25
			2P			Violet	30109A	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)
	480 ~ 500	16(10)	3P+PE		7	Black	30075	1.50
	380 ~ 415		3P+N+PE		6	Red	30076	1.50
			3P+PE		6	Red	30077	1.50
			3P+N+PE		6	Blue	30078	1.50
	200 ~ 250		3P+PE		9	Blue	30079	1.50
			2P+PE		6	Blue	30080	1.50
	100 ~ 130		1P+N+PE		4	Yellow	30081	1.50
	50 ~ 250		2P+PE		12	Violet	30082A	1.45
			2P			Violet	30083A	1.45
	12 ~ 48		2P+PE		12	Violet	30084A	1.45
			2P			Violet	30085A	1.45
	480 ~ 500	16(10)	3P+PE		7	Black	30087	0.35
	380 ~ 415		3P+N+PE		6	Red	30088	0.35
			3P+PE		6	Red	30089	0.35
			200 ~ 250	3P+N+PE		6	Blue	30090
	3P+PE				9	Blue	30091	0.35
	2P+PE				6	Blue	30092	0.35
	100 ~ 130		1P+N+PE		4	Yellow	30093	0.35
	50 ~ 250		2P+PE		12	Violet	30094A	0.35
			2P			Violet	30095A	0.35
	12 ~ 48		2P+PE		12	Violet	30096A	0.35
			2P			Violet	30097A	0.35

Plug and Sockets

BCZ8060 Series Explosion-proof Plug and Sockets

Technical data

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

Explosion protection

Global (IECEX)

Gas and dust

IECEX CNEX 21.0004X

Ex db eb IIC T5 or T4 Gb

Ex tb IIIC T80°C Db IP66

Europe (ATEX)

CNEX 21 ATEX 0003X

Gas and dust

Ex II 2 G Ex db eb IIC T5 or T4 Gb

Ex II 2 D Ex tb IIIC T80°C Db IP66

Certificates

IECEX; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31

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

20A, 32A

Degree of protection

IP66

Ambient temperature

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

Cable entries (Socket)

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 mm²

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(20)	3P+PE		5	Black	30110	1.90
	480 ~ 500		3P+PE		7	Black	30111	1.90
	380 ~ 415		3P+N+PE		6	Red	30112	1.90
			3P+PE		6	Red	30113	1.90
	200 ~ 250		3P+N+PE		6	Blue	30114	1.90
			3P+PE		9	Blue	30115	1.90
32A Plug 	600 ~ 690	32(20)	3P+PE		5	Black	30116	0.95
	480 ~ 500		3P+PE		7	Black	30117	0.95
	380 ~ 415		3P+N+PE		6	Red	30118	0.95
			3P+PE		6	Red	30119	0.95
	200 ~ 250		3P+N+PE		6	Blue	30120	0.95
			3P+PE		9	Blue	30121	0.95
32A Coupler 	600 ~ 690	32(20)	3P+PE		5	Black	30122	1.75
	480 ~ 500		3P+PE		7	Black	30123	1.75
	380 ~ 415		3P+N+PE		6	Red	30124	1.75
			3P+PE		6	Red	30125	1.75
	200 ~ 250		3P+N+PE		6	Blue	30126	1.75
			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

Global (IECEx)	IECEx CNEX 21.0004X
Gas and dust	Ex db eb IIC T5 or T4 Gb Ex tb IIC T80°C Db IP66
Europe (ATEX)	CNEX 21 ATEX 0003X
Gas and dust	Ex II 2 G Ex db eb IIC T5 or T4 Gb Ex II 2 D Ex tb IIC T80°C Db IP66

Certificates

IECEx; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31

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

50A, 60A, 63A

Degree of protection

IP66

Ambient temperature

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

Cable entries (Socket)

Standard 1 x M50x1.5 cable gland (plastic)

Cable gland (optional)

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

Cross section of cable

10~16 mm²

Accessories and spare parts

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering Code	Weight (kg)
	600 ~ 690	63 (50), (60)	3P+PE		5	Black	30128A	14.30
	480 ~ 500		3P+PE		7	Black	30129A	14.30
	380 ~ 415		3P+N+PE		6	Red	30130A	14.30
			3P+PE		6	Red	30131A	14.30
	200 ~ 250		3P+N+PE		6	Blue	30132A	14.30
			3P+PE		9	Blue	30133A	14.30
	600 ~ 690	63 (50), (60)	3P+PE		5	Black	30128B	1.70
	480 ~ 500		3P+PE		7	Black	30129B	1.70
	380 ~ 415		3P+N+PE		6	Red	30130B	1.70
			3P+PE		6	Red	30131B	1.70
	200 ~ 250		3P+N+PE		6	Blue	30132B	1.70
			3P+PE		9	Blue	30133B	1.70



Technical data

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

Explosion protection

Global (IECEX)

IECEX CNEX 21.0004X

Gas and dust

Ex db eb IIC T4 Gb

Ex tb IIIC T80°C Db IP66

Europe (ATEX)

CNEX 21 ATEX 0003X

Gas and dust

Ex II 2 G Ex db eb IIC T4 Gb

Ex II 2 D Ex tb IIIC T80°C Db IP66

Certificates

IECEX; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31

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

100A, 125A

Degree of protection

IP66

Ambient temperature

-20°C~+55°C

Cable entries (Socket)

Standard 1 x M63x1.5 cable gland (plastic), 1 x M63x1.5 plug (plastic)

Cable gland (optional)

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

Cross section of cable

25~35 mm²

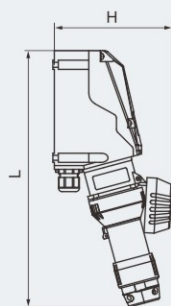
Accessories and spare parts

Version	Voltage (V)	Current (A)	Number of pole	Schematic diagram	h	Colour	Ordering Code	Weight (kg)
	600 ~ 690	125(100)	3P+PE		5	Black	30134	14.30
	480 ~ 500		3P+PE		7	Black	30135	14.30
	380 ~ 415		3P+N+PE		6	Red	30136	14.30
			3P+PE		6	Red	30137	14.30
	200 ~ 250		3P+N+PE		6	Blue	30138	14.30
			3P+PE		9	Blue	30139	14.30
	600 ~ 690	125(100)	3P+PE		5	Black	30140	1.70
	480 ~ 500		3P+PE		7	Black	30141	1.70
	380 ~ 415		3P+N+PE		6	Red	30142	1.70
			3P+PE		6	Red	30143	1.70
	200 ~ 250		3P+N+PE		6	Blue	30144	1.70
			3P+PE		9	Blue	30145	1.70

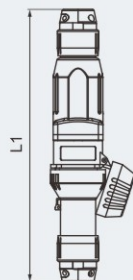
Plug and Sockets

BCZ8060 Series Explosion-proof Plug and Sockets

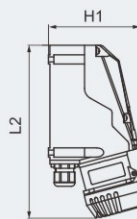
Dimension drawings (all dimensions in mm) - subject to alteration



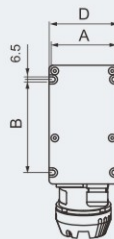
Plug and socket



Coupler (L)



Socket (Z)

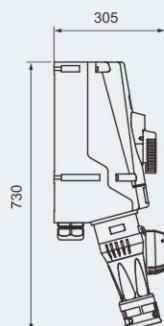


Plug (T)

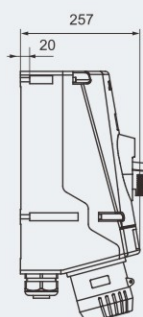
BCZ8060-16/□/□

BCZ8060-32/□/□

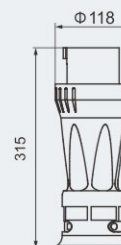
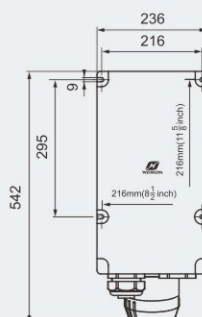
Version	L	H	L1	L2	H1	D	A	B	L3	D1
BCZ8060-16/□/(2P/3P)	336	154	356	227	120	90	80	122	171	72
BCZ8060-16/□/(4P/5P)	408	175	460	252	151	110	102	150	217	76.5
BCZ8060-32/□/□	460	209	514	283	171	120	113	169	253	95



Plug and socket



Socket (Z)



Plug (T)

BCZ8060-63/□/□

BCZ8060-125/□/□



Plug and Sockets

General Introduction

Introduction of the voltage, number of pole, 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.

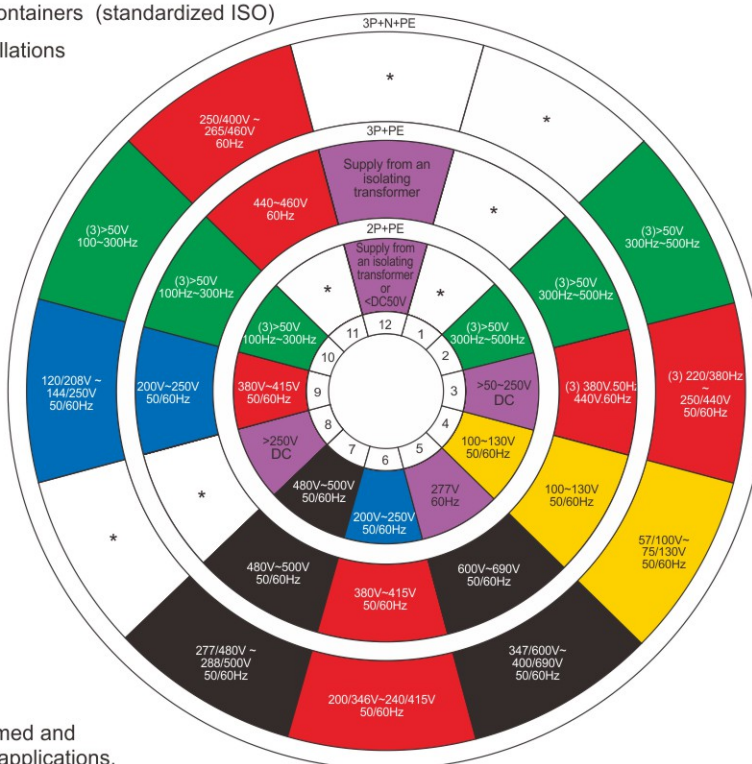
Position of the earthing contact according to IEC60309-2

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	DC	12							
>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

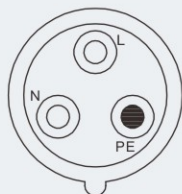


* Clock positions not normed and free for use for special applications.

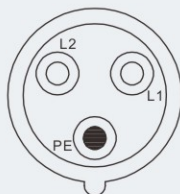
Plug and Sockets

General Introduction

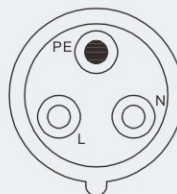
View: Front side socket or connector



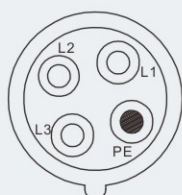
1P+N+PE 4h
100V~130V



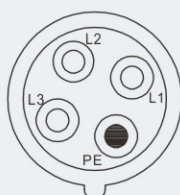
2P+PE 6h
200V~250V



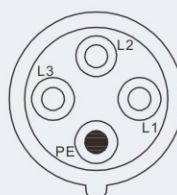
1P+N+PE 12h
< DC50V



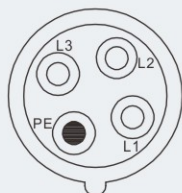
3P+PE 4h
100V~130V



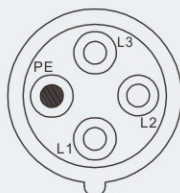
3P+PE 5h
600V~690V



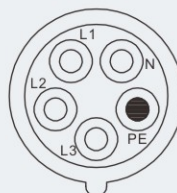
3P+PE 6h
380V~415V



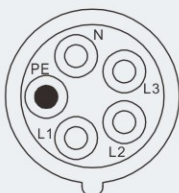
3P+PE 7h
480V~500V



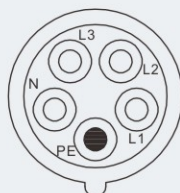
3P+PE 9h
200V~250V



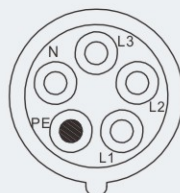
3P+N+PE 4h
57/100V~75/130V



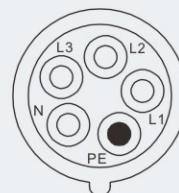
3P+N+PE 9h
120/208V~144/250V



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.