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

BXJ-S - □ □

- Internal terminal type (a.....f)
- Enclosure type (I, II, III.....)
- Terminal boxes (Stainless steel)

WAROM

Zones 0&1&2; 21&22

Technical data

Terminal boxes (Ex e IIC Ex ia IIC) BXJ-S-□□

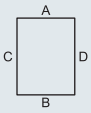
Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex e IIC T6 or T5 Gb　　Ⓔx II 1 G Ex ia IIC T6 Ga
Dust explosion protection	Ⓔx II 2 D Ex tb IIIC T80℃ or T95℃ Db IP66　　Ⓔx II 2 D Ex tb IIIC T80℃ Db IP66
Certificates	LCIE 10 ATEX 3071X; IECEx CQM 11.0020X; RU C-CN.ГБ05.B.00345 (CU-TR) KZ.7500525.22.01.00364 (CU-TR)
Conformity to standards	EN 60079-0, EN 60079-7, EN 60079-11, EN 60079-31 IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC 60079-31
Enclosure material	Stainless steel
Terminal	International brand of explosion-proof terminal Ex-mark: Ⓔx II 2 GD Ex e II
Exposed fastener	Stainless steel
Rated voltage	Max. 500V AC
Rated current	

Cross section	2.5mm²	4mm²	6mm²	10mm²	16mm²	35mm²
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/T80℃ for Tamb: -40℃ ~ +40℃; T5/T95℃ for Tamb: -40℃ ~ +50℃ Ex ia: T6/T80℃ for Tamb: -40℃ ~ +50℃
Note	Ex e Rated current > 125A on request.

Cable entry table

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

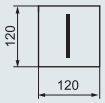
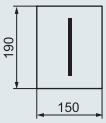
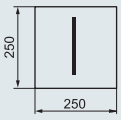
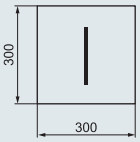
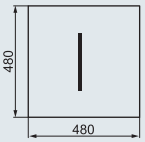
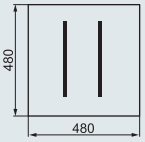
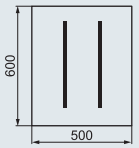
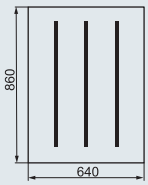


Size	I		II		III		IV		V		VI		VII	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	2	2	3	4	9	9	12	12	20	20	20	28	40	54
M25 x 1.5	1	1	3	3	8	8	10	10	18	18	18	24	26	40
M32 x 1.5	/	/	2	3	6	6	8	8	12	12	12	16	14	26
M40 x 1.5	/	/	/	/	3	3	4	4	6	6	6	14	10	20
M50 x 1.5	/	/	/	/	2	2	3	3	5	5	5	12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

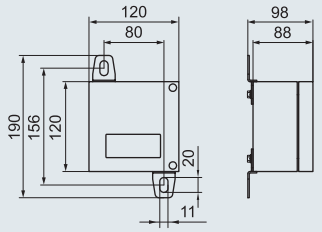
Note: 1. No cable entries for standard design. Cable entries shall be drilled by user.
2. For cable entries:
1) Please specify the direction and size of each cable entry.
2) Cable gland is optional, DQM-I (Ex e) is recommended. Please see P7/17~19.

Selection table of BXJ-S series terminal boxes

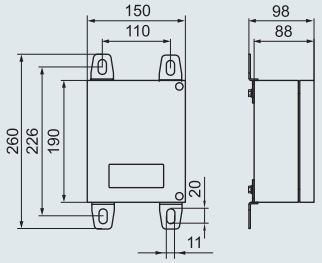
Max. cross section of cable connected to terminals is 35mm^2
See table for max. number of fitted terminals

Cross section of cable (mm^2) / Enclosure code/Ordering code	Outline	2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Weight (kg)
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

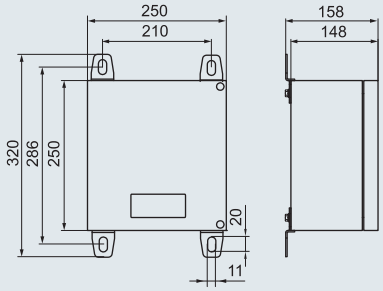
Dimension drawings (all dimensions in mm) - subject to alteration



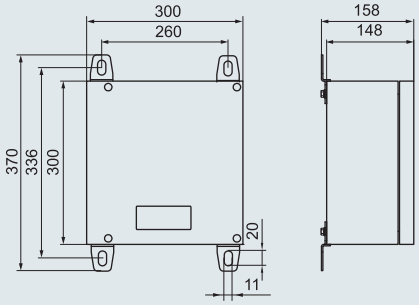
Type I



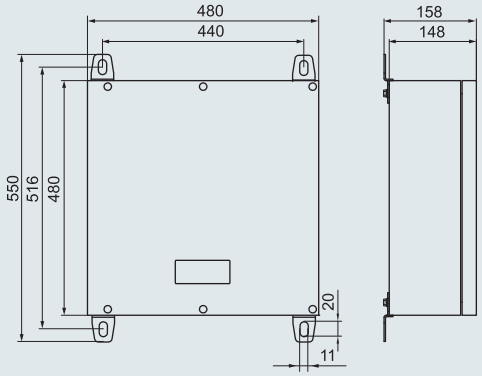
Type II



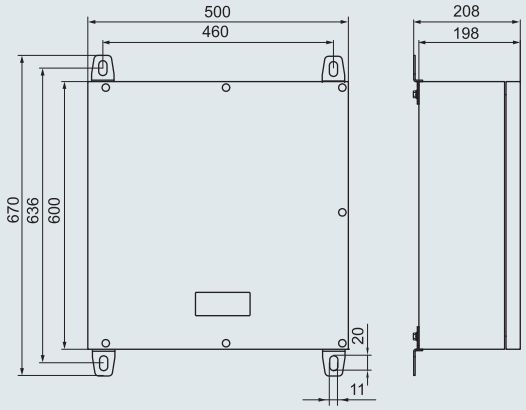
Type III



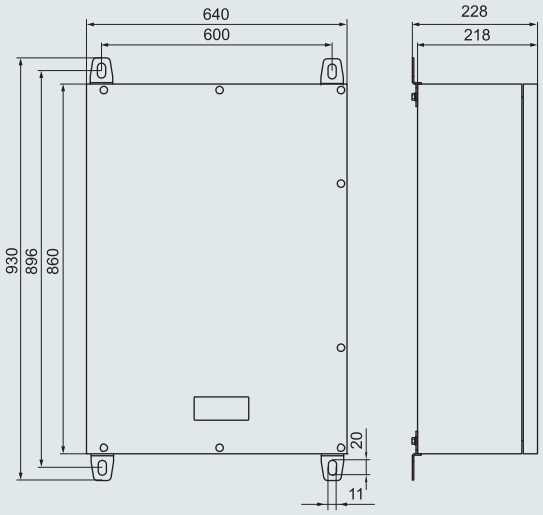
Type IV



Type V



Type VI



Type VII

Plug and Sockets
General Introduction

Introduction of the voltage, 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.

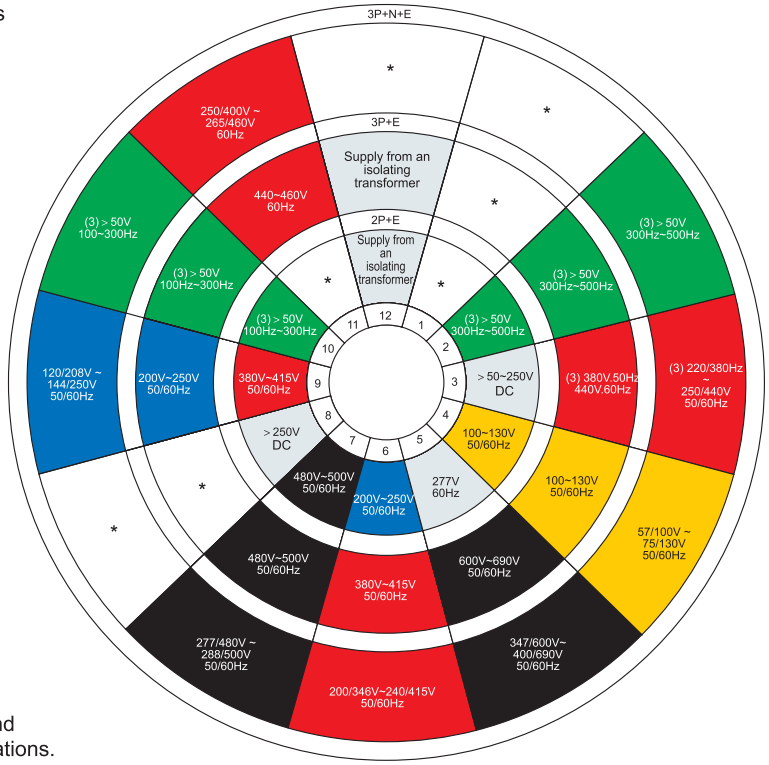
Position of the earthing contact according to IEC60309-2

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 ~ 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)

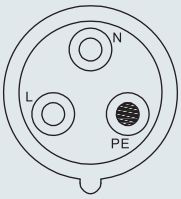
(2) Mainly for marine installations

(3) Non standard

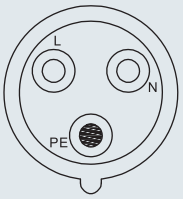


* Clock positions not normed and free for use for special applications.

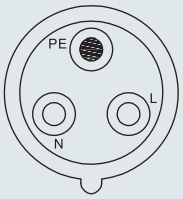
View: Front side socket or connector



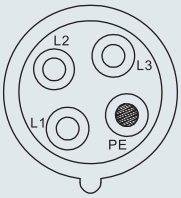
2P+PE 4h
100V~130V



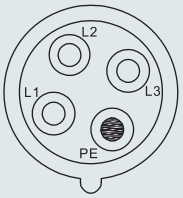
2P+PE 6h
200V~250V



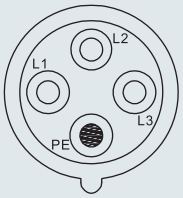
2P+PE 12h
< DC50V



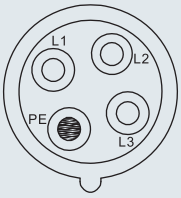
3P+PE 4h
100V~130V



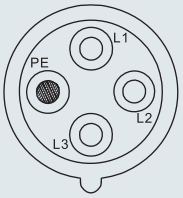
3P+PE 5h
600V~690V



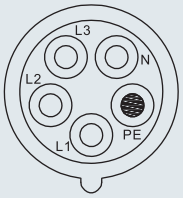
3P+PE 6h
380V~415V



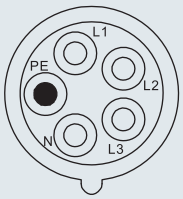
3P+PE 7h
480V~500V



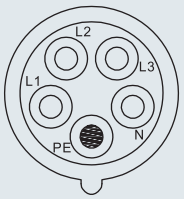
3P+PE 9h
200V~250V



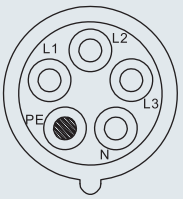
3P+N+PE 4h
57/100V~75/130V



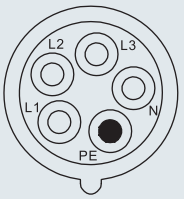
3P+N+PE 9h
120/208V~144/250V



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.