Terminal Boxes
BXJ Series Explosion-proof Terminal Boxes

Ex d IIB

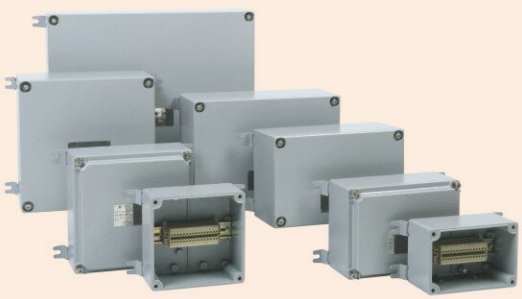
- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A, B, C, D
  - Class I, Division 2, Groups A , B, C, D
- Three explosion-proof types (Ex e, Ex d IIB and Ex d IIC).
- Enclosure: Copper-free Aluminium Alloy (carbon steel or stainless steel is optional), powder coated surface.
- Size and direction of cable entries can be customized on request.

Catalogue number logic

BXJ - □- □ □

- Internal terminal type (a.....f)
- Enclosure type (I, II, III.....)
- Explosion-proof type (e, IIB, IIC)
- Explosion-proof terminal boxes

Ex d IIC



Ex e IIC

Zones 1&2; 21&22

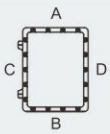
Technical data

Explosion-proof terminal boxes(Ex d IIB+H_2) BXJ-IIB-□□

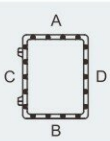
Explosion protection	
Global (IECEx)	IECEx CQM 14. 0061X
Gas and dust	Ex db IIB+H_2 T6 or T5 Gb Ex tb IIIC T80℃ or T95℃ Db IP66
Europe (ATEX)	TÜV CY 17 ATEX 0205970X
Gas and dust	Ⓔx II 2 G Ex db IIB+H_2 T6 or T5 Gb Ⓔx II 2 D Ex tb IIIC T80℃ or T95℃ Db IP66
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31
Enclosure material	Copper-free Aluminium Alloy (carbon steel or stainless steel is optional), powder coated surface
Enclosure colour	Window grey (RAL7040)
Terminal	International brand of terminal blocks
Exposed fastener	Stainless steel
Ambient temperature	T5/T95℃ for Tamb: -60℃≤Ta≤+55℃ T6/T80℃ for Tamb: -60℃≤Ta≤+40℃
Rated voltage	Max. 800V AC
Rated current	Cross section: 2.5mm² / 4mm² / 6mm² / 10mm² / 16mm² / 35mm² / 70mm² / 240mm² Rated current: 24A / 32A / 41A / 57A / 76A / 125A / 192A / 400A
Internal&external earthing	I, II, IIb: M6/M6; III, IIIb, IV, IVb, V, Vb, VI, VIb: M6/M8; VII, VIIb: M8/M8
Degree of protection	IP66, IP67 (optional)
Note	Rated current > 400A on request

Cable entry table

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



Size	I A/B	I C/D	II A/B	II C/D	II b A/B	II b C/D	III A/B	III C/D	III b A/B	III b C/D	IV A/B	IV C/D	IV b A/B	IV b C/D
M20 x 1.5	5	8	5	10	5	12	10	12	16	20	12	16	22	30
M25 x 1.5	5	7	5	9	5	10	9	11	12	15	11	14	15	20
M32 x 1.5	2	3	2	4	2	6	7	9	9	12	9	12	12	16
M40 x 1.5	2	2	2	3	2	4	3	4	5	6	4	5	6	9
M50 x 1.5	1	2	1	3	1	3	3	3	4	5	3	4	5	7
M63 x 1.5	1	2	1	2	1	3	2	3	2	3	3	3	3	5



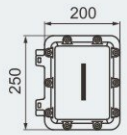
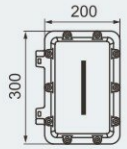
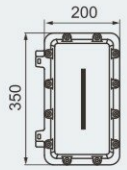
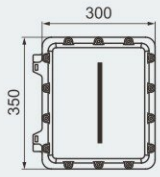
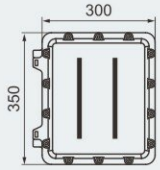
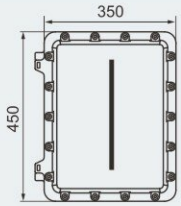
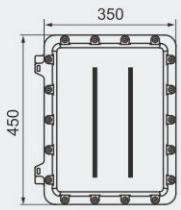
Size	V A/B	V C/D	V b A/B	V b C/D	VI A/B	VI C/D	VI b A/B	VI b C/D	VII A/B	VII C/D	VII b A/B	VII b C/D
M20 x 1.5	14	21	24	40	19	33	30	50	28	41	45	65
M25 x 1.5	12	19	18	27	16	28	20	36	25	35	30	44
M32 x 1.5	10	15	14	21	13	22	18	30	21	29	25	36
M40 x 1.5	4	7	8	12	7	13	11	18	11	16	15	21
M50 x 1.5	4	5	5	9	6	11	6	10	10	13	12	12
M63 x 1.5	3	5	4	7	3	5	5	9	4	6	7	10

Note: For cable entries:
1) Please specify the direction and size of each cable entry.
2) Cable gland is optional, DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~31.

Selection table of BXJ-IIB series explosion-proof terminal boxes

Max. cross section of cable connected to terminals is 35mm^2

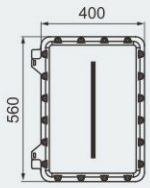
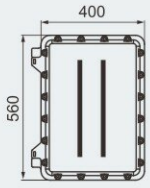
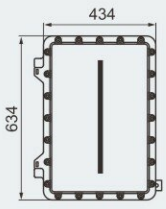
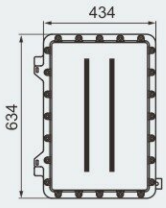
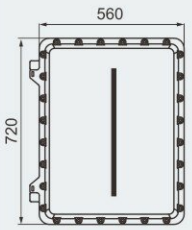
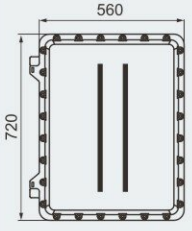
See table for max. number of fitted terminals

Cross section of cable (mm^2)		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Max. dissipated power (W)	Weight (kg)
Enclosure code/Ordering code	Outline								
I		16	15	12	10	8	——	9.8	7.50
II		22	18	14	12	10	——	14.4	9.00
II b		28	25	20	15	12	——	14.4	10.00
III, IIIb		32	30	24	20	16	8	22.2	16.00 (III) 19.80 (III b)
		50	46	40	——	——	——	22.2	16.50 (III) 20.50 (III b)
IV, IVb		45	40	34	28	24	16	25.2	25.50 (IV) 30.00 (IV b)
		80	70	60	40	——	——	25.2	26.30 (IV) 31.00 (IV b)

Selection table of BXJ-IIB series explosion-proof terminal boxes

Max. cross section of cable connected to terminals is 240mm^2

See table for max. number of fitted terminals

Enclosure code/ Ordering code	Outline	Cross section of cable (mm^2) 2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	70 (g)	240 (h)	Max. dissipated power (W)	Weight (kg)
V, Vb		60	56	48	36	30	20	——	——	55.3	38.00 (V) 43.00 (Vb)
		110	100	90	70	66	——	——	——	55.3	39.00 (V) 44.00 (Vb)
VI, VIb		80	70	60	50	35	20	10	6	64.5	50.00 (VI) 56.50 (VIb)
		160	140	120	100	70	——	——	——	64.5	51.50 (VI) 58.00 (VIb)
VII, VIIb		90	80	70	60	40	25	15	9	93.1	80.00 (VII) 88.50 (VIIb)
		180	160	140	120	80	——	——	——	93.1	82.00 (VII) 91.50 (VIIb)

Terminal Boxes
BXJ-IIC Series Explosion-proof Terminal Boxes

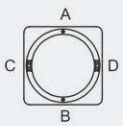
Technical data

Explosion-proof terminal boxes (Ex d IIC) BXJ- IIC-□□

Explosion protection									
Global (IECEx)	IECEx CQM 11.0027								
Gas and dust	Ex d IIC T6 Gb								
	Ex tb IIIC T80℃ Db IP65								
Europe (ATEX)	Nemko 09 ATEX 1012								
Gas and dust	Ⓔx II 2 G Ex d IIC T6 Gb								
	Ⓔx II 2 D Ex tb IIIC T80℃ Db IP65								
Certificates	IECEx; ATEX; CU-TR								
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31								
	IEC 60079-0, IEC 60079-1, IEC 60079-31								
Enclosure material	Copper-free Aluminium Alloy (carbon steel or stainless steel is optional), powder coated surface								
Enclosure colour	Window grey (RAL7040)								
Terminal	International brand of terminal blocks								
Exposed fastener	Stainless steel								
Rated voltage	Max. 690V AC								
Rated current	Cross section	2.5mm²	4mm²	6mm²	10mm²	16mm²	35mm²	70mm²	95mm²
	Rated current	24A	32A	41A	57A	76A	125A	192A	250A
Internal&external earthing	M5/M8								
Degree of protection	IP65								
Ambient temperature	-20℃~+55℃								
Note	Rated current > 250A on request								

Cable entry table

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

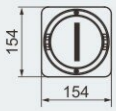
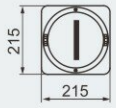
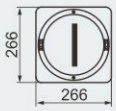
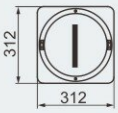
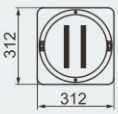
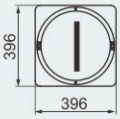
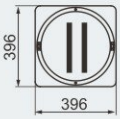
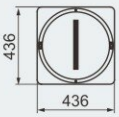
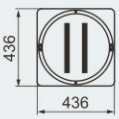


Size	I		II		III		IV		V		VI	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 × 1.5	3	3	4	4	10	10	11	11	15	15	17	17
M25 × 1.5	3	3	4	4	9	9	10	10	13	13	15	15
M32 × 1.5	2	2	3	3	7	7	8	8	11	11	12	12
M40 × 1.5	2	2	3	3	3	3	4	4	5	5	5	5
M50 × 1.5	/	/	/	/	3	3	3	3	4	4	5	5
M63 × 1.5	/	/	/	/	2	2	2	2	3	3	4	4

Note: For cable entries:
1) Please specify the direction and size of each cable entry.
2) Cable gland is optional, DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~31.

Selection table of BXJ-IIC series explosion-proof terminal boxes

Max. cross section of cable connected to terminals is 95mm²
See table for max. number of fitted terminals

Cross section of cable (mm²)		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	70 (g)	95 (h)	Weight (kg)
Enclosure code/Ordering code	Outline									
I		10	8	6	—	—	—	—	—	3.50
II		20	18	15	12	10	—	—	—	6.50
III		25	24	20	15	12	6	—	—	12.00
IV		32	30	25	18	14	10	—	—	15.00
		44	40	32	22	—	—	—	—	15.50
V		48	44	38	30	20	12	6	6	21.00
		72	60	50	40	—	—	—	—	21.50
VI		60	54	44	34	26	15	8	8	24.00
		90	80	60	50	40	—	—	—	24.50

Technical data

Terminal boxes (Ex e IIC Ex ib IIC) BXJ-e-□□

Explosion protection							
Global (IECEx)	IECEx CQM 13.0032X						
Gas and dust	Ex e IIC T6 or T5 Gb						
	Ex ib IIC T6 Gb						
	Ex tb IIIC T80℃ Db IP66						
Europe (ATEX)	LCIE 13 ATEX 3027X						
Gas and dust	Ⓔx II 2 G Ex e IIC T6 or T5 Gb						
	Ⓔx II 2 G Ex ib IIC T6 Gb						
	Ⓔx II 2 D Ex tb IIIC T80℃ Db IP66						
Certificates	IECEx; ATEX; 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	Copper-free Aluminium Alloy, powder coated surface						
Enclosure colour	Window grey (RAL7040)						
Terminal	International brand of explosion-proof terminal blocks						
Exposed fastener	Stainless steel						
Rated voltage	Max. 690V AC						
Rated current	Cross section	2.5mm²	4mm²	6mm²	10mm²	16mm²	35mm²
	Ex e Rated current	24A	32A	41A	57A	76A	125A
	Ex ib Rated current	5A	5A	5A	-	-	-
Internal&external earthing	M6/M6						
Degree of protection	IP66, IP67 (optional)						
Ambient temperature	Ex e: T6 for Tamb: -50℃ ~ +40℃; T5 for Tamb: -50℃ ~ +55℃						
	Ex ib: T6 for Tamb: -50℃ ~ +55℃						
Note	Ex e Rated current > 125A on request.						

Cable entry table

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

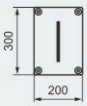
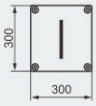
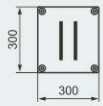
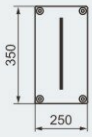
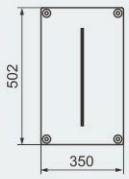
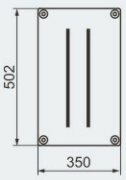
Size	I		II		III		IV		V		VI		VII		VIII	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	2	3	4	4	4	6	6	6	6	10	10	10	8	12	12	18
M25 x 1.5	2	3	3	3	3	4	4	4	5	9	9	9	7	10	10	16
M32 x 1.5	1	2	2	2	2	3	3	3	3	4	4	4	4	6	6	10
M40 x 1.5	1	2	2	2	2	3	3	3	2	3	3	3	2	3	3	5
M50 x 1.5	/	/	/	/	/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

Note: 1. Exe: Standard inlet hole is thread hole. If through hole is needed, please indicate when ordering.
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-e series terminal boxes

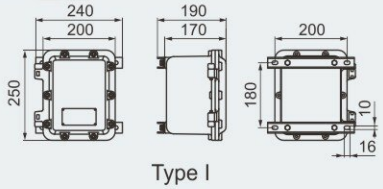
Max. cross section of cable connected to terminals is 35mm^2

See table for max. number of fitted terminals

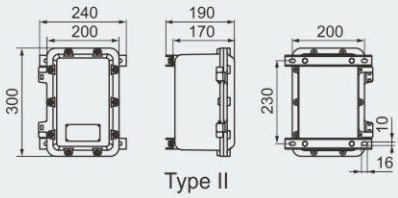
Cross section of cable (mm^2)		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Max. dissipated power (W)	Weight (kg)
Enclosure code/Ordering code	Outline								
I		16	15	12	10	—	—	7.83	2.40
II		16	15	12	10	8	—	11.81	2.80
III		25	22	20	15	12	—	8.60	3.80
IV		25	22	20	15	12	8	10.63	5.10
V		35	30	25	20	15	—	11.34	5.80
VI		35	30	25	20	15	10	24.68	7.10
		60	50	40	—	—	—		7.50
VII		40	35	30	24	18	12	20.44	7.00
		40	40	30	—	—	—		7.00
VIII		60	55	40	30	20	15	23.75	9.50
		100	90	66	60	40	—		9.70

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

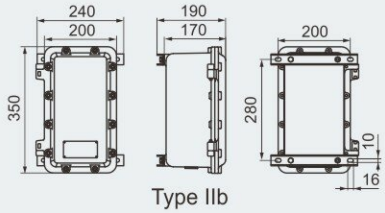
BXJ- IIB-□□



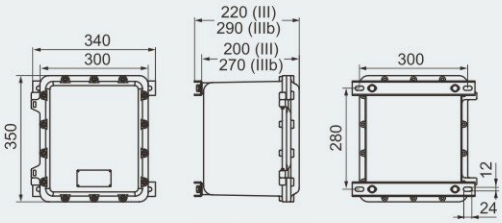
Type I



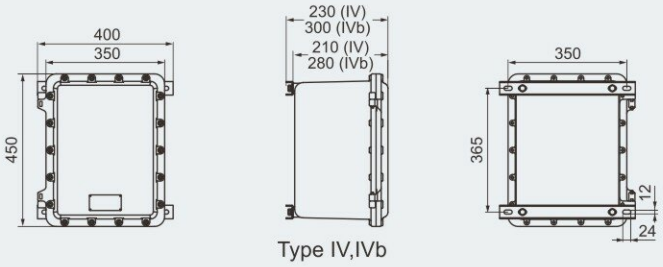
Type II



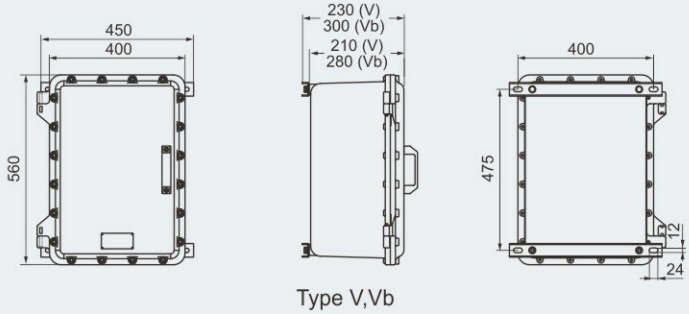
Type IIb



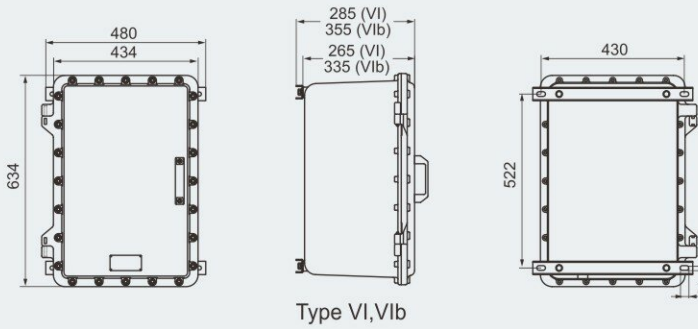
Type III,IIIb



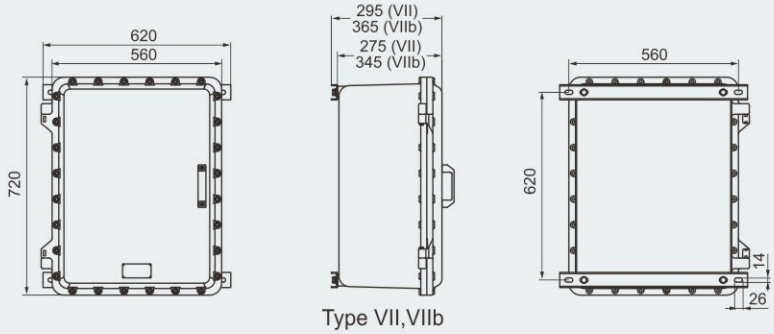
Type IV,IVb



Type V,Vb



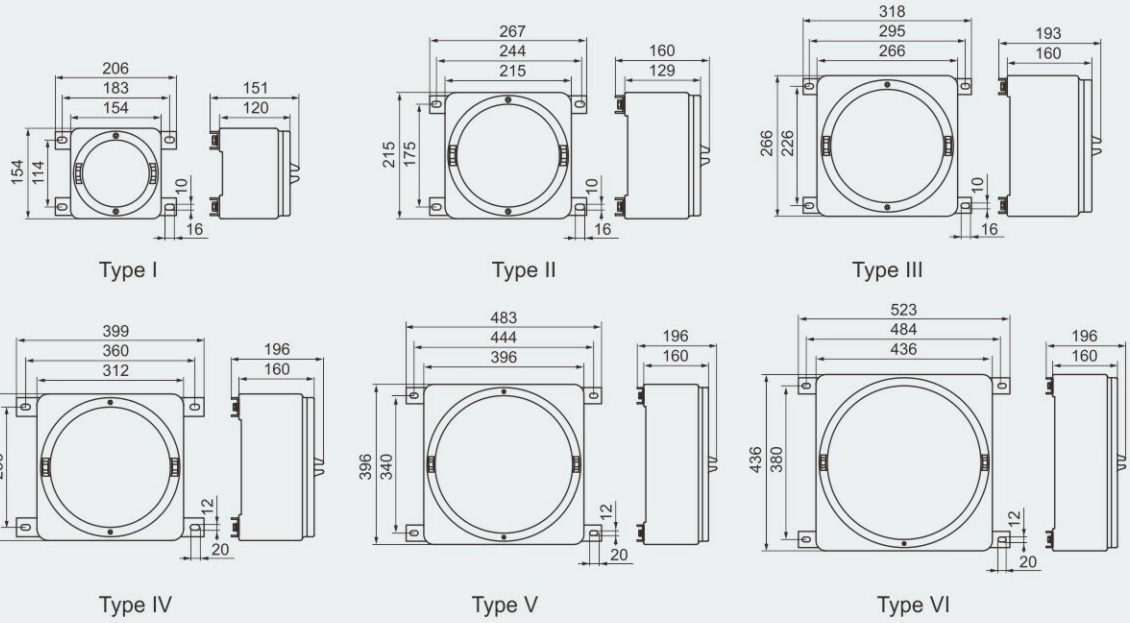
Type VI,VIb



Type VII,VIIb

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

BXJ- IIC-□□



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

BXJ- e-□□