Terminal Boxes
BXJ Series Explosion-proof Terminal Boxes

Ex d IIB

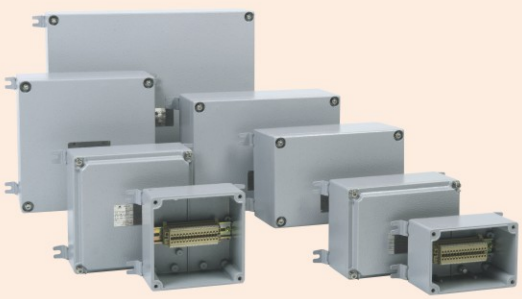
- Explosion protection to
  - -CENELEC
  - -IEC
  - -NEC
- Can be used in
  - Zone 1 and Zone 2
  - Zone 21 and Zone 22
  - Class I, Zone 1 and Zone 2
  - Class I, Division 1, Groups A, B, C, D
  - Class I, Division 2, Groups A , B, C, D
- Three explosion-proof types (Ex e IIC, Ex d IIB and Ex d IIC).
- Enclosure: Copper-free Aluminium Alloy, 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

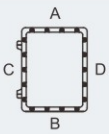
Technical data

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

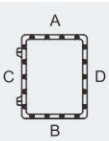
Explosion protection	
Global (IECEx)	IECEx CQM 14. 0061X
Gas and dust	Ex db IIB+H_2 T6 or T5 Gb Ex tb IIIC T80℃ or T95℃ Db IP66
Europe (ATEX)	TÜV CY 17 ATEX 0205970X
Gas and dust	Ⓔx II 2 G Ex db IIB+H_2 T6 or T5 Gb Ⓔx II 2 D Ex tb IIIC T80℃ or T95℃ Db IP66
Certificates	IECEx; ATEX; CU-TR
Conformity to 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, 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
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



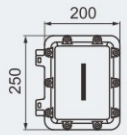
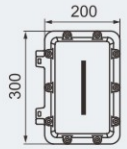
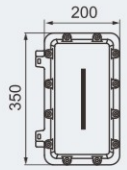
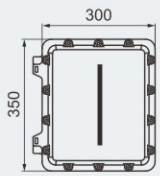
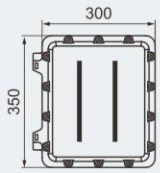
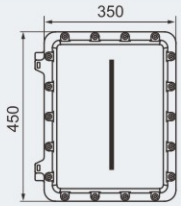
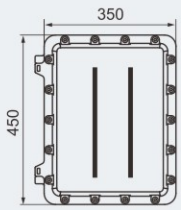
Size	V A/B	V C/D	V b A/B	V b C/D	VI A/B	VI C/D	VI b A/B	VI b C/D	VII A/B	VII C/D	VII b A/B	VII b C/D
M20 x 1.5	14	21	24	40	19	33	30	50	28	41	45	65
M25 x 1.5	12	19	18	27	16	28	20	36	25	35	30	44
M32 x 1.5	10	15	14	21	13	22	18	30	21	29	25	36
M40 x 1.5	4	7	8	12	7	13	11	18	11	16	15	21
M50 x 1.5	4	5	5	9	6	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 P7/22~31.

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

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

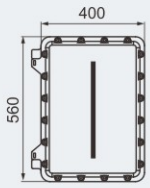
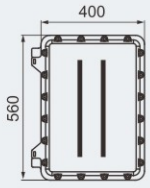
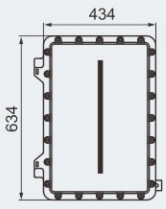
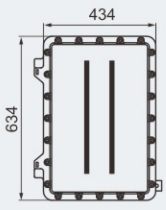
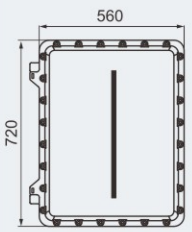
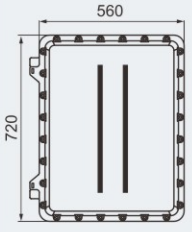
See table for max. number of fitted terminals

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)
		2×25	2×23	2×20	——	——	——	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)
		2×40	2×35	2×30	2×20	——	——	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)
		2×55	2×50	2×45	2×35	2×33	——	——	——	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)
		2×80	2×70	2×60	2×50	2×35	——	——	——	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)
		2×90	2×80	2×70	2×60	2×40	——	——	——	93.1	82.00 (VII) 91.50 (VIIb)

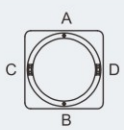
Technical data

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 , 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
	Rated current	24A	32A	41A	57A	76A	100A
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



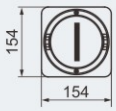
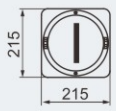
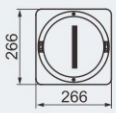
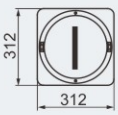
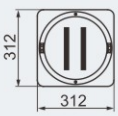
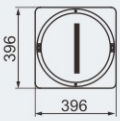
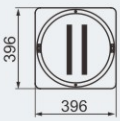
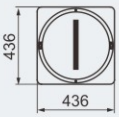
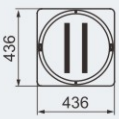
Size	I		II		III		IV		V		VI	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 × 1.5	3	3	4	4	10	10	11	11	15	15	17	17
M25 × 1.5	3	3	4	4	9	9	10	10	13	13	15	15
M32 × 1.5	2	2	3	3	7	7	8	8	11	11	12	12
M40 × 1.5	2	2	3	3	3	3	4	4	5	5	5	5
M50 × 1.5	/	/	/	/	3	3	3	3	4	4	5	5
M63 × 1.5	/	/	/	/	2	2	2	2	3	3	4	4

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 P7/22~31.

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

Max. cross section of cable connected to terminals is 95mm^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	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	21.00
		72	60	50	40	—	—	21.50
VI		60	54	44	34	26	15	24.00
		90	80	60	50	40	—	24.50

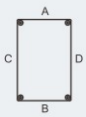
Technical data

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	100A
	Ex ib Rated current	5A	5A	5A	-	-	-
Internal&external earthing	M6/M6						
Degree of protection	IP66						
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

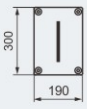
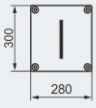
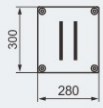
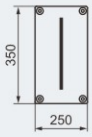
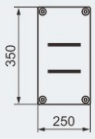
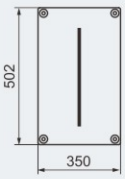
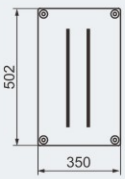


Size	I		II		III		IV		V		VI		VII		VIII	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	2	3	4	4	4	6	6	6	6	10	10	10	8	12	12	18
M25 x 1.5	2	3	3	3	3	4	4	4	5	9	9	9	7	10	10	16
M32 x 1.5	1	2	2	2	2	3	3	3	3	4	4	4	4	6	6	10
M40 x 1.5	1	2	2	2	2	3	3	3	2	3	3	3	2	3	3	5
M50 x 1.5	/	/	/	/	/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

Note: 1. Ex e: 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 P7/19~21.

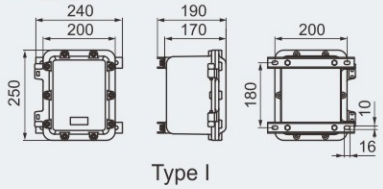
Selection table of BXJ-e series terminal boxes

Max. cross section of cable connected to terminals is 35mm²
See table for max. number of fitted terminals

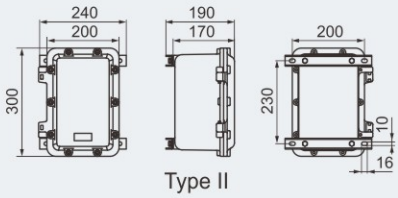
Cross section of cable (mm²)		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Max. dissipated power (W)	Weight (kg)
Enclosure code/Ordering code	Outline								
I		16	15	12	10	—	—	7.83	2.40
II		16	15	12	10	8	—	11.81	2.80
III		25	22	20	15	12	—	8.60	3.80
IV		25	22	20	15	12	8	10.63	5.10
V		35	30	25	20	15	—	11.34	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

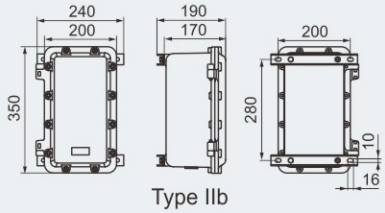
BXJ- IIB-□□



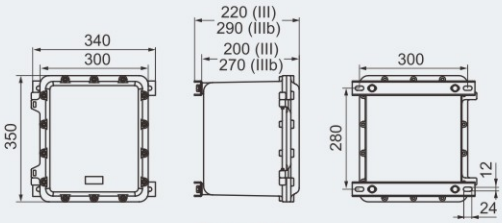
Type I



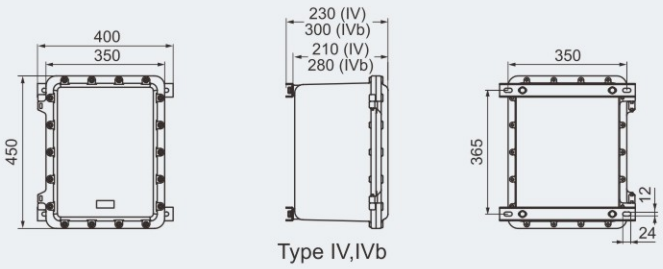
Type II



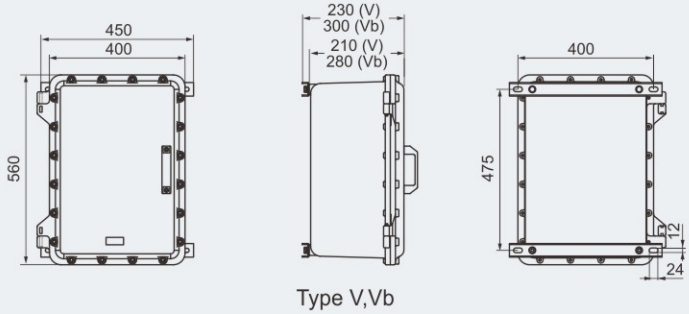
Type IIb



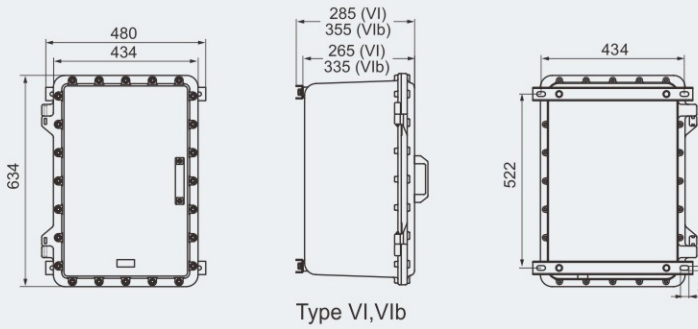
Type III,IIIb



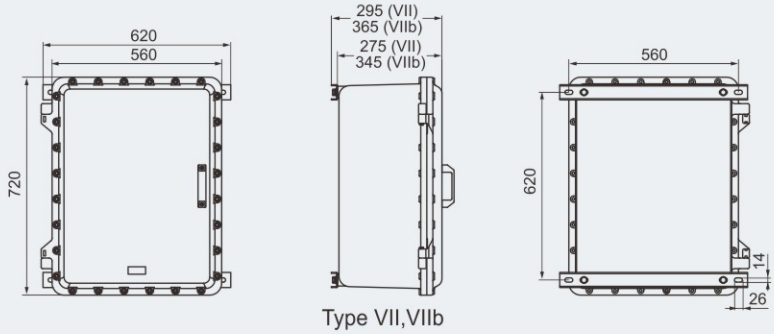
Type IV,IVb



Type V,Vb



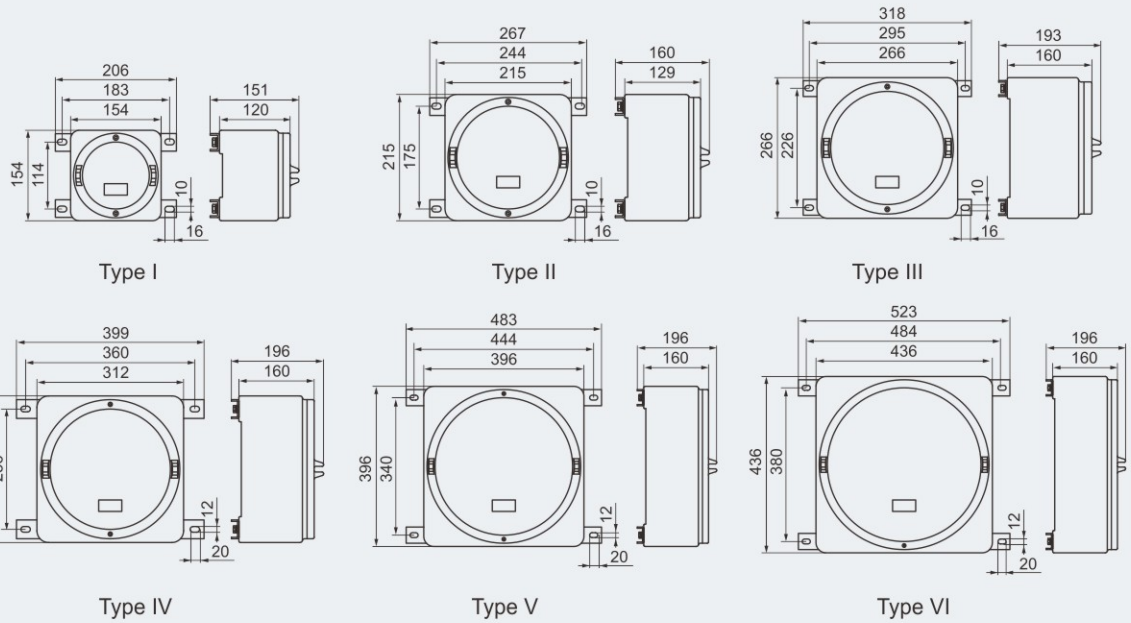
Type VI,VIb



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-□□