

Terminal Boxes

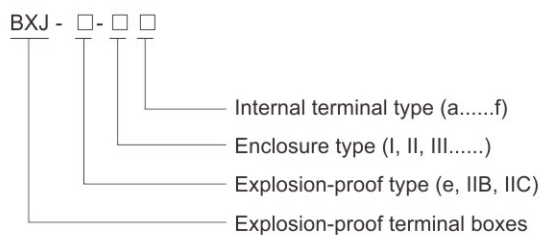
BXJ Series Explosion-proof Terminal Boxes



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



Ex d IIC



Ex e IIC

Zones 1&2; 21&22

Terminal Boxes

BXJ-IIB Series Explosion-proof Terminal Boxes

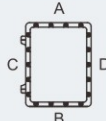
Technical data

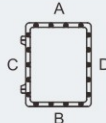
Explosion-proof terminal boxes(Ex db IIB+H₂) BXJ-IIB-□□

Explosion protection									
Global (IECEX)	IECEX CQM 14. 0061X								
Gas and dust	Ex db IIB+H ₂ T6 or T5 Gb								
	Ex tb IIIC T80°C or T95°C Db IP66								
Europe (ATEX)	TÜV CY 17 ATEX 0205970X								
Gas and dust	Ⓔ II 2 G Ex db IIB+H ₂ T6 or T5 Gb Ⓔ II 2 D Ex tb IIIC T80°C or T95°C 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°C for Tamb: -60°C ≤ Ta ≤ +55°C T6/T80°C for Tamb: -60°C ≤ Ta ≤ +40°C								
Rated voltage	Max. 800V AC								
Rated current	Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	70mm ²	240mm ²
	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

	I		II		II b		III		III b		IV		IV b	
														
Size	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	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

	V		V b		VI		VI b		VII		VII b	
												
Size	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	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 P7/20~29.



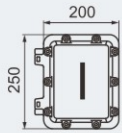
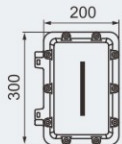
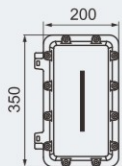
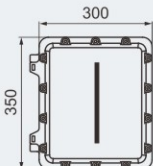
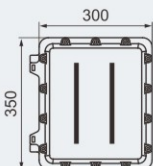
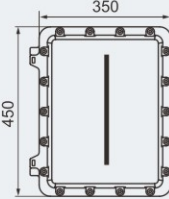
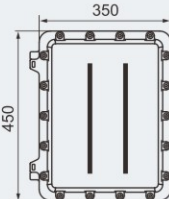
Terminal Boxes

BXJ-IIB Series Explosion-proof Terminal Boxes

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

Max. cross section of cable connected to terminals is 35mm²

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)



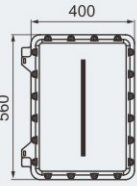
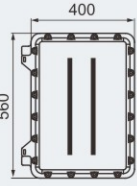
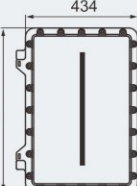
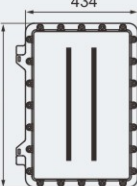
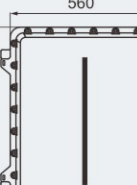
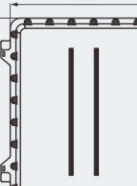
Terminal Boxes

BXJ-IIB Series Explosion-proof Terminal Boxes

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

Max. cross section of cable connected to terminals is 240mm²

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)	70 (g)	240 (h)	Max. dissipated power (W)	Weight (kg)
Enclosure code/ Ordering code	Outline										
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

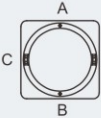
Explosion-proof terminal boxes (Ex d IIC) BXJ-IIC-□□

Explosion protection									
Global (IECEX)	IECEX CQM 11.0027								
Gas and dust	Ex d IIC T6 Gb								
	Ex tb IIIC T80°C Db IP65								
Europe (ATEX)	Nemko 09 ATEX 1012								
Gas and dust	Ex II 2 G Ex d IIC T6 Gb Ex II 2 D Ex tb IIIC T80°C 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	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²	70mm ²	95mm ²
	Rated current	24A	32A	41A	57A	76A	125A	192A	250A
Internal&external earthing	M5/M8								
Degree of protection	IP65								
Ambient temperature	-20°C~+55°C								
Note	Rated current > 250A on request								



Cable entry table

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

	I		II		III		IV		V		VI	
												
Size	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 P7/20~29.

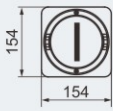
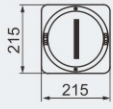
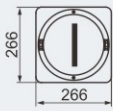
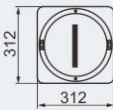
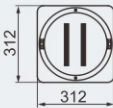
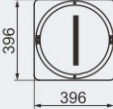
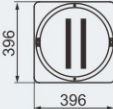
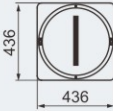
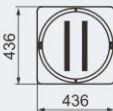
Terminal Boxes

BXJ-IIC Series Explosion-proof Terminal Boxes

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 (mm ²)		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



Terminal Boxes

BXJ-e Series Terminal Boxes

Technical data

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

Explosion protection

Global (IECEX)

Gas and dust

IECEX CQM 13.0032X

Ex e IIC T6 or T5 Gb

Ex ib IIC T6 Gb

Ex tb IIC T80°C Db IP66

Europe (ATEX)

Gas and dust

LCIE 13 ATEX 3027X

Ex II 2 G Ex e IIC T6 or T5 Gb

Ex II 2 G Ex ib IIC T6 Gb

Ex II 2 D Ex tb IIC T80°C Db IP66

Certificates

Conformity to standards

IECEX; ATEX; CU-TR

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

Enclosure colour

Terminal

Exposed fastener

Rated voltage

Rated current

Copper-free Aluminium Alloy, powder coated surface

Window grey (RAL7040)

International brand of explosion-proof terminal blocks

Stainless steel

Max. 690V AC

Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²	35mm ²
Ex e Rated current	24A	32A	41A	57A	76A	125A
Ex ib Rated current	5A	5A	5A	-	-	-

Internal&external earthing

Degree of protection

Ambient temperature

Note

M6/M6

IP66

Ex e: T6 for Tamb: -50°C ~ +40°C; T5 for Tamb: -50°C ~ +55°C

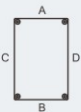
Ex ib: T6 for Tamb: -50°C ~ +55°C

Ex e Rated current > 125A on request.



Cable entry table

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

	I		II		III		IV		V		VI		VII		VIII	
																
Size	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 P7/17~19.

Terminal Boxes

BXJ-e Series Terminal Boxes

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

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

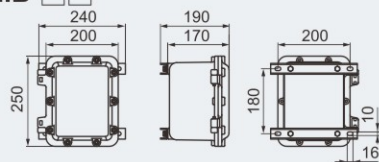


Terminal Boxes

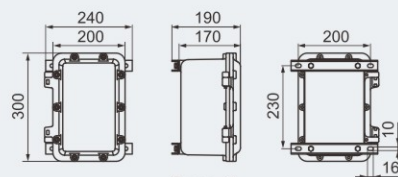
BXJ Series Explosion-proof Terminal Boxes

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

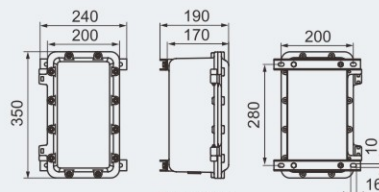
BXJ- IIB-□□



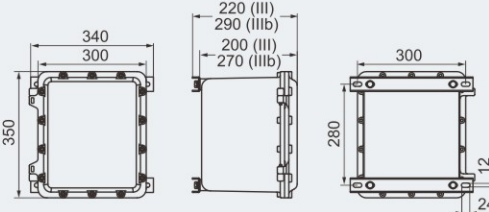
Type I



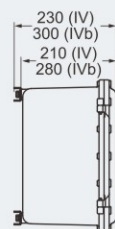
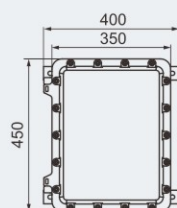
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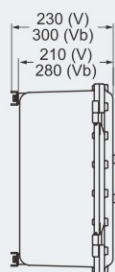
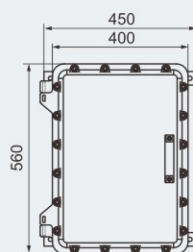
Type IIb



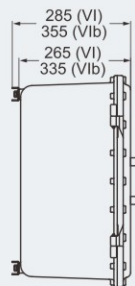
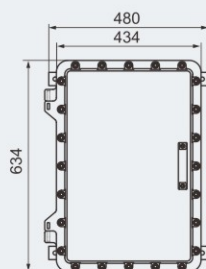
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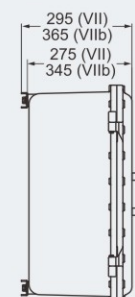
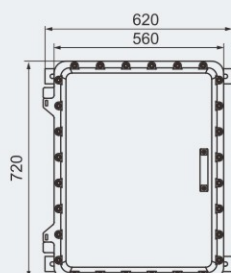
Type IV, IVb



Type V, Vb



Type VI, VIb



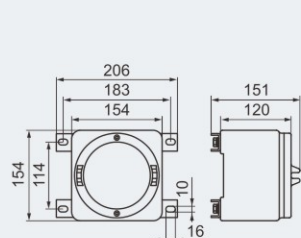
Type VII, VIIb

Terminal Boxes

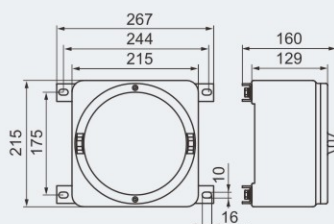
BXJ Series Explosion-proof Terminal Boxes

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

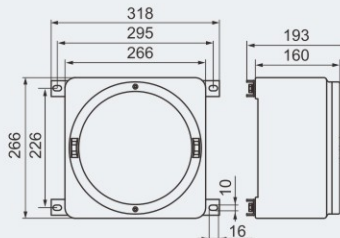
BXJ- IIC-□□



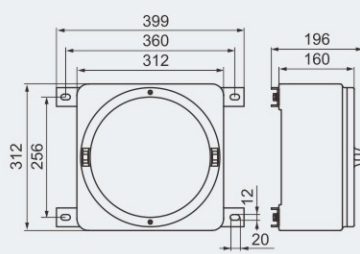
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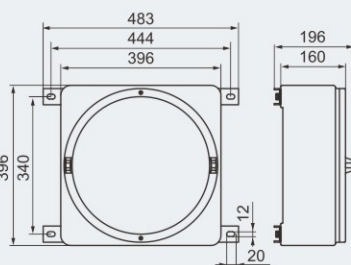
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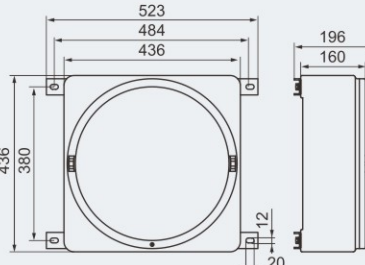
Type III



Type IV



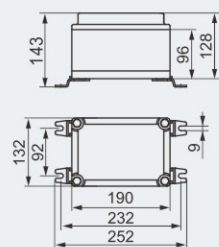
Type V



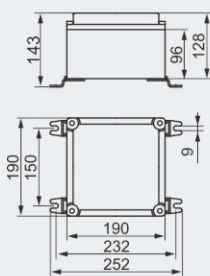
Type VI

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

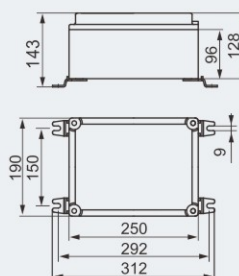
BXJ- e-□□



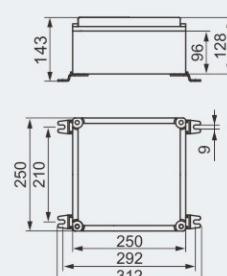
Type I



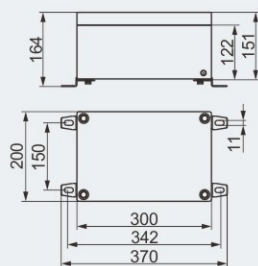
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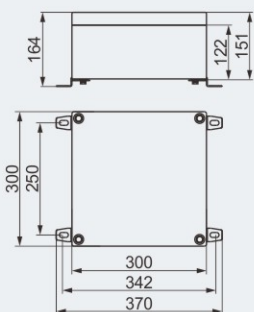
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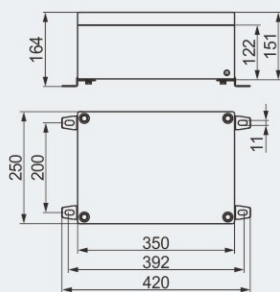
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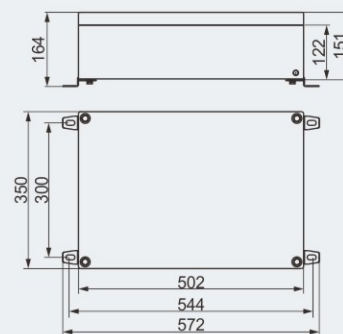
Type V



Type VI



Type VII



Type VIII

