

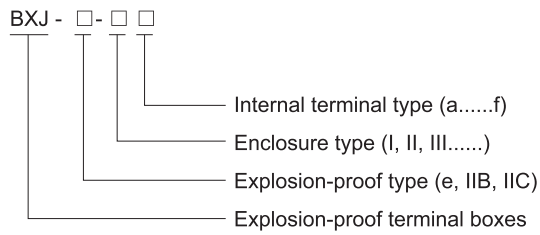
Terminal Boxes BXJ Series Explosion-proof Terminal Boxes



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 (carbon steel or stainless steel is optional), 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


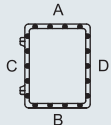
Terminal Boxes


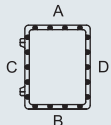
BXJ-IIB Series Explosion-proof Terminal Boxes

Technical data	
Explosion-proof terminal boxes(Ex d IIB) BXJ-IIB-□□	
Explosion protection	
Gas explosion protection	⊕ II 2 G Ex d IIB T6 Gb Ex d IIB T6 or T5 Gb
Dust explosion protection	⊕ II 1 D Ex t III B T80°C Da IP66 Ex tb IIIC T80°C or T95°C Db IP66
Certificates	LCIE 11 ATEX 3013 IECEx CQM 14. 0061X KZ.7500525.22.01.00364 (CU-TR) RU C-CN.ГБ05.B.00345 (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 (carbon steel or stainless steel is optional), powder coated surface
Enclosure colour	Window grey (RAL7040)
Terminal	International brand of terminal
Exposed fastener	Stainless steel
Ambient temperature	-60°C ~ +55°C T6/T80°C for Tamb: -60°C ~ +40°C, T5/T95°C for Tamb: -60°C ~ +55°C
Rated voltage	Max. 500V AC (ATEX certificate) Max. 800V AC (IECEX certificate)
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
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

	I		II		II b		III		III b		IV		IV b	
	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
														
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	
	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
												
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: 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-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.



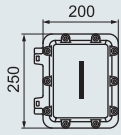
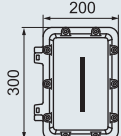
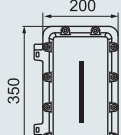
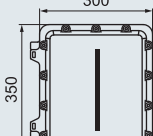
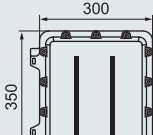
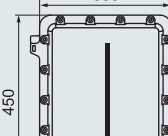
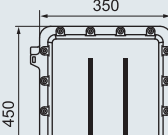
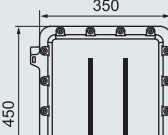
Terminal Boxes

BXJ-II B Series Explosion-proof Terminal Boxes

Selection table of BXJ-II B series explosion-proof terminal boxes

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

See table for max. number of fitted terminals

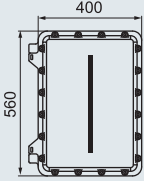
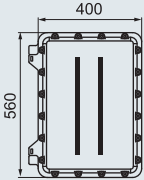
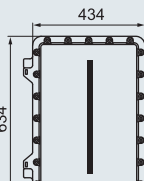
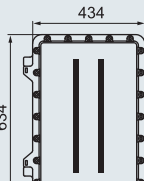
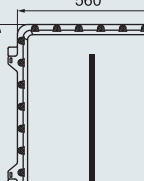
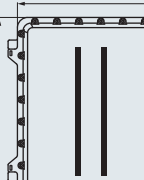
Cross section of cable (mm ²)		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Max. dissipated power (W)	Weight (kg)
Enclosure code/Ordering code	Outline								
I		16	15	12	10	8	—	9.8	7.50
II		22	18	14	12	10	—	14.4	9.00
II b		28	25	20	15	12	—	14.4	10.00
III, III b		32	30	24	20	16	8	22.2	16.00 (III)
		50	46	40	—	—	—	22.2	19.80 (III b)
IV, IV b		45	40	34	28	24	16	25.2	16.50 (III)
		80	70	60	40	—	—	25.2	20.50 (III b)
		80	70	60	40	—	—	25.2	25.50 (IV)
									30.00 (IV b)
									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																			
Gas explosion protection	⊕ Ex II 2 G Ex d IIC T6 Gb																		
Dust explosion protection	⊕ Ex II 2 D Ex tb IIIC T80°C Db IP65																		
Certificates	Nemko 09 ATEX 1012; IECEx CQM 11.0027; KZ.7500525.22.01.00364 (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 (carbon steel or stainless steel is optional), powder coated surface																		
Enclosure colour	Window grey (RAL7040)																		
Terminal	International brand of terminal																		
Exposed fastener	Stainless steel																		
Rated voltage	Max. 690V AC																		
Rated current	<table border="1"> <tr> <td>Cross section</td> <td>2.5mm²</td> <td>4mm²</td> <td>6mm²</td> <td>10mm²</td> <td>16mm²</td> <td>35mm²</td> <td>70mm²</td> <td>95mm²</td> </tr> <tr> <td>Rated current</td> <td>24A</td> <td>32A</td> <td>41A</td> <td>57A</td> <td>76A</td> <td>125A</td> <td>192A</td> <td>250A</td> </tr> </table>	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
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											
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	
	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: 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-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.

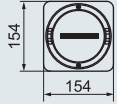
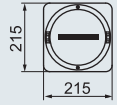
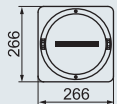
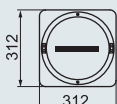
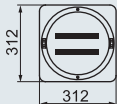
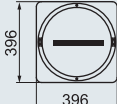
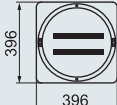
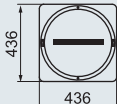
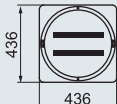
Terminal Boxes

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
IV		44	40	32	22	—	—	—	—	15.50
V		48	44	38	30	20	12	6	6	21.00
V		72	60	50	40	—	—	—	—	21.50
VI		60	54	44	34	26	15	8	8	24.00
VI		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

Gas explosion protection
Dust explosion protection

⊕ II 2 G Ex e IIC T6 or T5 Gb ⊕ II 2 G Ex ib IIC T6 Gb
⊕ II 2 D Ex tb IIIC T80°C Db IP66

Certificates

LCIE 13 ATEX 3027X; IECEx CQM 13.0032X; RU C-CN.ГБ05.В.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

Copper-free aluminium, powder coated surface

Enclosure colour

Window grey (RAL7040)

Terminal

International brand of explosion-proof terminal
Ex-mark: ⊕ II 2 GD Ex e II

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
Ex e Rated current	24A	32A	41A	57A	76A	125A
Ex ib Rated current	-	5A	5A	-	-	-

Degree of protection

IP66, IP67 (optional)

Ambient temperature

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

Note

Ex e Rated current > 125A on request.

Cable entry table

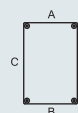
Table of max. number of possible enclosure entries with cable glands DQM-I

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. 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.











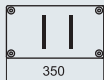


Terminal Boxes

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

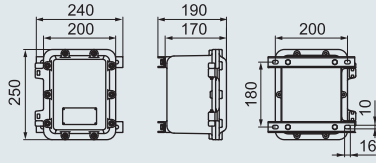
Enclosure code/Ordering code	Cross section of cable (mm ²) Outline	2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Max. dissipated power (W)	Weight (kg)
I		16	15	12	10	—	—	7.83	2.40
II		16	15	12	10	8	—	11.81	2.80
III		25	22	20	15	12	—	8.60	3.80
IV		25	22	20	15	12	8	10.63	5.10
V		35	30	25	20	15	—	11.34	5.80
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



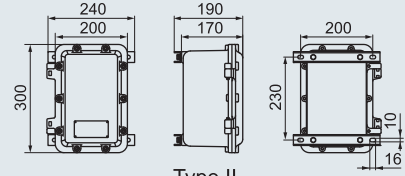
Terminal Boxes BXJ Series Explosion-proof Terminal Boxes

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

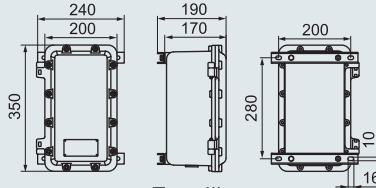
BXJ- IIB-□□



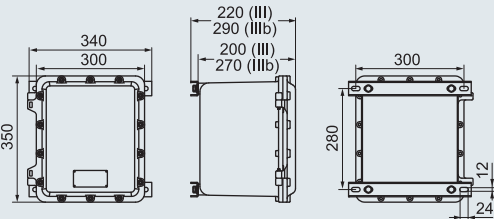
Type I



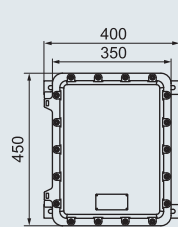
Type II



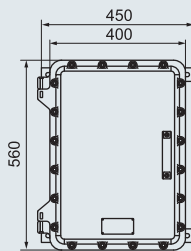
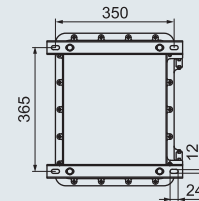
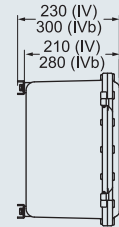
Type IIb



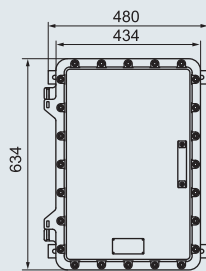
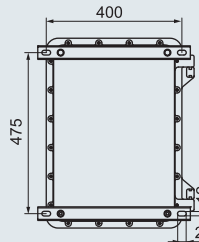
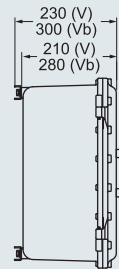
Type III, IIIb



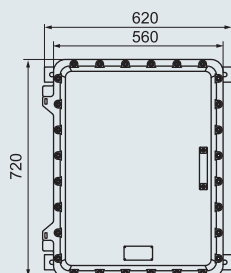
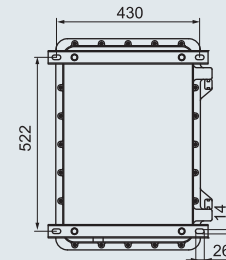
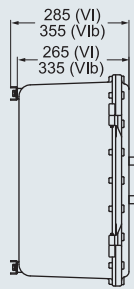
Type IV, IVb



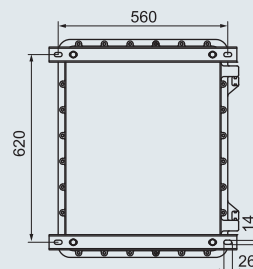
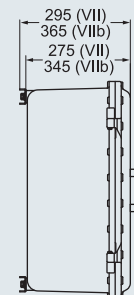
Type V, Vb



Type VI, VIb



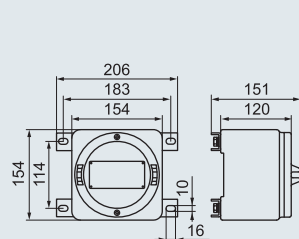
Type VII, VIIb



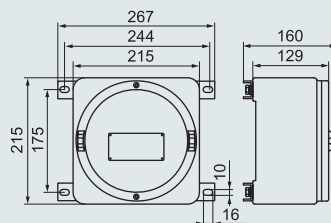
Terminal Boxes BXJ Series Explosion-proof Terminal Boxes

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

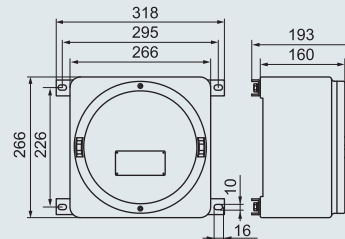
BXJ- IIC-□□



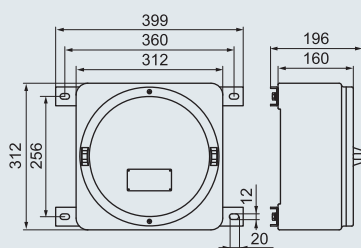
Type I



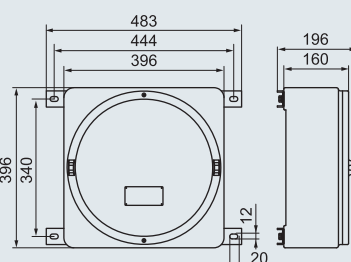
Type II



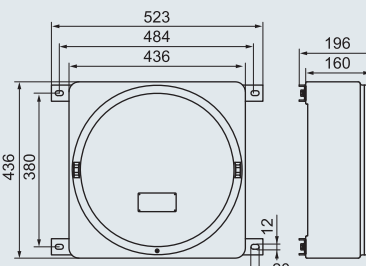
Type III



Type IV



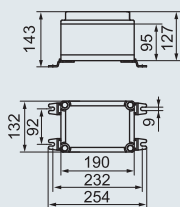
Type V



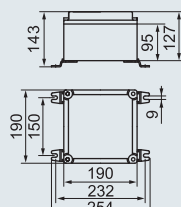
Type VI

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

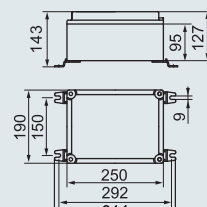
BXJ- e-□□



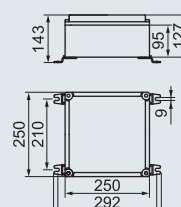
Type I



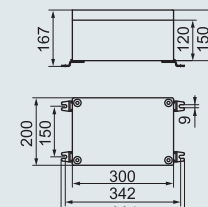
Type II



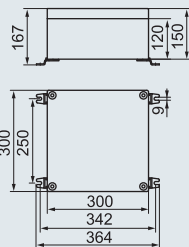
Type III



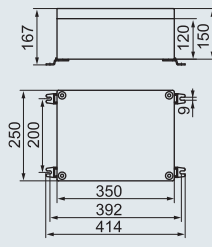
Type IV



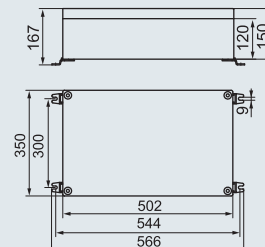
Type V



Type VI



Type VII



Type VIII

