

Terminal Boxes

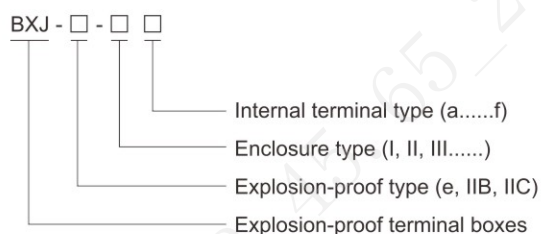
BXJ Series Explosion-proof Terminal Boxes



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+H₂ T6 or T5 Gb

Ex tb IIIC T80°C or T95°C Db IP66

Europe (ATEX)

TÜV CY 17 ATEX 0205970X

Gas and dust

Ex II 2 G Ex db IIB+H₂ T6 or T5 Gb

Ex II 2 D Ex tb IIIC T80°C or T95°C Db IP66

IECEX; ATEX

Certificates

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

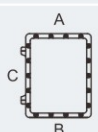
IP66

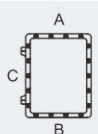
Note

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
M20×1.5	5	8	5	10	5	12	10	12	16	20	12	16	22	30
M25×1.5	5	7	5	9	5	10	9	11	12	15	11	14	15	20
M32×1.5	2	3	2	4	2	6	7	9	9	12	9	12	12	16
M40×1.5	2	2	2	3	2	4	3	4	5	6	4	5	6	9
M50×1.5	1	2	1	3	1	3	3	3	4	5	3	4	5	7
M63×1.5	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
M20×1.5	14	21	24	40	19	33	30	50	28	41	45	65
M25×1.5	12	19	18	27	16	28	20	36	25	35	30	44
M32×1.5	10	15	14	21	13	22	18	30	21	29	25	36
M40×1.5	4	7	8	12	7	13	11	18	11	16	15	21
M50×1.5	4	5	5	9	6	11	6	10	10	13	12	12
M63×1.5	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 P6/24~39.

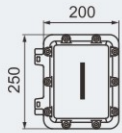
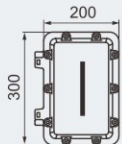
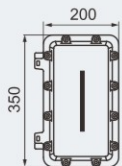
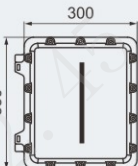
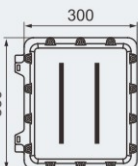
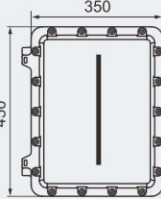
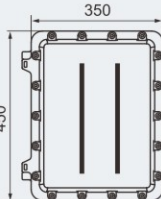
Terminal Boxes

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)
		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)



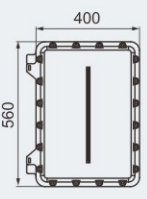
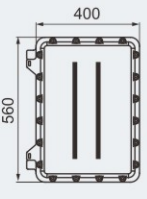
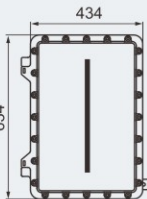
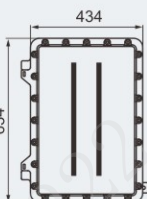
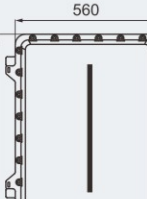
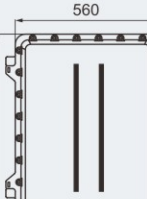
Terminal Boxes

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)
		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)



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

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

Internal & external earthing

M5/M8

Degree of protection

IP65

Ambient temperature

-20°C~+55°C

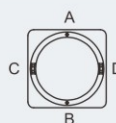
Note

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 P6/24~39.