Terminal Boxes
BXJ8050 Series Terminal Boxes

Explosion protection to

-CENELEC

-IEC

-NEC

Can be used in

Zone 0, Zone 1 and Zone 2

Zone 21 and Zone 22

Class I, Zone 1 and Zone 2

Class I, Division 2, Groups A , B, C, D

GRP (glass fibre-reinforced polyester resin) enclosure.

Catalogue number logic

BXJ8050 - □ □

- Internal terminal type (a, b, c, e, f)
- Enclosure type (I, II, III, IV, V, VB, VI, VIB, VII, VIIB)
- Terminal boxes (GRP)

Zones 0&1&2; 21&22

Technical data

Terminal boxes (Ex e IIC Ex ia IIC) BXJ8050-□□

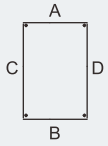
Explosion protection	
Global (IECEx)	IECEx CQM 13.0031X
Gas and dust	Ex e IIC T6 or T5 Gb Ex ia IIC T6 Ga Ex tb IIIC T80 Db IP66
Europe (ATEX)	LCIE 13 ATEX 3036X
Gas and dust	Ⓔx II 2 G Ex e IIC T6 or T5 Gb Ⓔx II 1 G Ex ia IIC T6 Ga Ⓔx II 2 D Ex tb IIIC T80 Db IP66
Certificates	IECEx; ATEX; CU-TR
Conformity 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	GRP (glass fibre-reinforced polyester resin)
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	20A	28A	35A	45A	60A	100A
Ex ia Rated current	5A	5A	5A	-	-	-

Degree of protection	IP66
Ambient temperature	Ex e: T6 for Tamb: -40 ~ +40 ; T5 for Tamb: -40 ~ +55 Ex ia: T6 for Tamb: -40 ~ +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

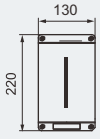
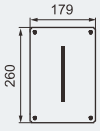
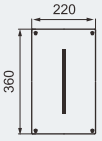
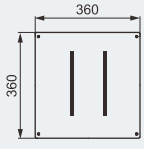
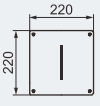
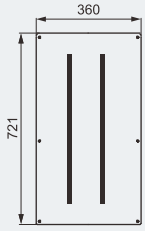


		Size								
		M20 × 1.5	M25 × 1.5	M32 × 1.5	M40 × 1.5	M50 × 1.5	M63 x 1.5	M75 x 1.5	M90 x 1.5	M115 x 1.5
I	A/B	2	2	1	/	/	/	/	/	/
	C/D	2	2	1	/	/	/	/	/	/
II	A/B	2	2	1	/	/	/	/	/	/
	C/D	5	3	3	2	/	/	/	/	/
III	A/B	3	3	2	2	1	/	/	/	/
	C/D	6	6	2	2	2	/	/	/	/
IV	A/B	8	6	5	3	2	1	/	/	/
	C/D	12	10	8	4	3	2	/	/	/
IVB	A/B	8	6	5	4	3	1	/	/	/
	C/D	12	10	8	5	4	3	/	/	/
V	A/B	14	12	10	5	4	3	/	/	/
	C/D	12	10	8	4	3	2	/	/	/
VB	A/B	14	12	10	5	4	3	/	/	/
	C/D	12	10	8	5	4	3	/	/	/
VI	A/B	8	5	5	3	2	1	/	/	/
	C/D	6	5	3	2	2	1	/	/	/
VII / VIIB	A/B	14	12	10	5	4	3	/	/	/
	C/D	25	21	17	10	6	6	/	/	/

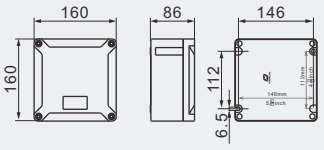
Note: For cable entries:
1) Please specify the direction and size of each cable entry.
2) Cable gland is optional, DQM-I (Ex e) is recommended. Please see P7/17~19.

Selection table of BXJ8050 series terminal boxes

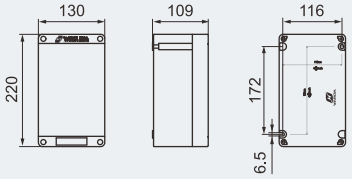
Max. cross section of cable connected to terminals is 35mm^2
See table for max. number of fitted terminals

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	14	10	—	—	—	2.30	1.20
II		25	20	18	—	—	—	6.81	1.30
III		30	25	20	18	15	—	6.50	2.10
IV		40	40	30	25	20	—	14.32	3.25
IVB									4.00
V		80	80	60	50	40	—	28.08	4.15
VB									5.20
VI		25	20	18	15	—	—	7.92	2.00
VII		160	160	120	100	80	30	25.00	14.55
VIIB									16.75

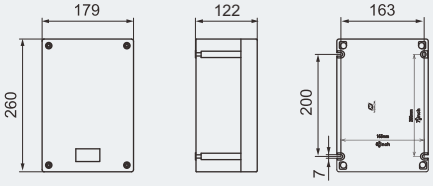
Dimension drawings (all dimensions in mm) - subject to alteration



Type I



Type II



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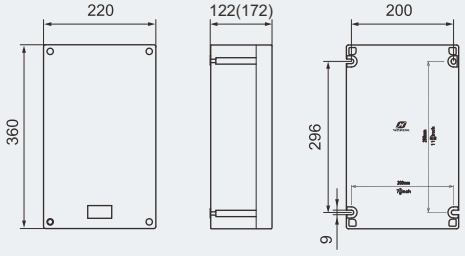
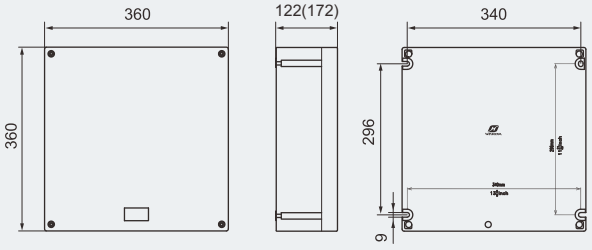
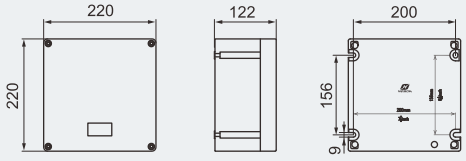


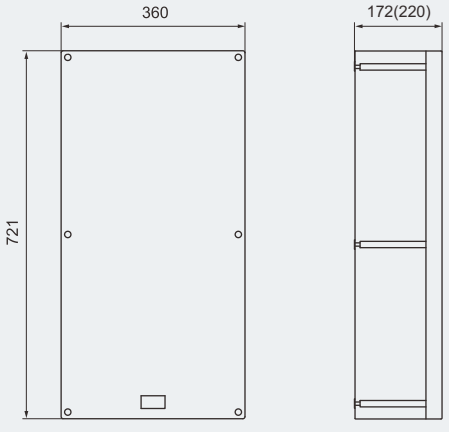
Type IV(IVB)

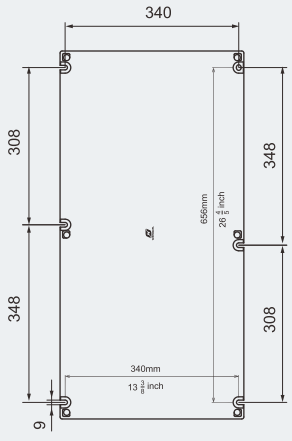


Type V(VB)



Type VI





Type VII(VIIB)