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.
- Size and direction of cable entries can be customized on request.

Catalogue number logic

BXJ8050 - □ □

- Internal terminal type (a, b, c, e, f)
- Enclosure type
- I, IB, II, IIB, ... VIIIC, VIIID, VIIIE, VIIIF)
- Terminal boxes (GRP)

Technical data

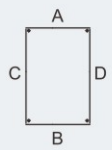
Terminal boxes (Ex eb IIC Ex ia IIC Ex ib IIC) BXJ8050-□□

Explosion protection	
Global (IECEx)	IECEx CQM 13.0031X
Gas and dust	Ex eb IIC T6...T4 Gb Ex ia IIC T6 Ga Ex ib IIC T6 Gb Ex tb IIIC T80˚C Db
Europe (ATEX)	LCIE 13 ATEX 3036X
Gas and dust	Ⓔx II 2 G Ex eb IIC T6...T4 Gb Ⓔx II 1 G Ex ia IIC T6 Ga Ⓔx II 2 G Ex ib IIC T6 Gb Ⓔx II 2 D Ex tb IIIC T80˚C Db
Certificates	IECEx; ATEX; CU-TR
Conformity to standards	EN 60079-0, EN 60079-7, EN 60079-11, EN 60079-18, EN 60079-31 IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC 60079-18, 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	Ex e: Max. 1100V AC/DC Ex ia: Max. 36V AC/DC
Rated current	Ex e: Max. 800A Ex ia: Max. 5A
Degree of protection	IP66
Ambient temperature	-60˚C~+60˚C(+40˚C)(+45˚C)(+50˚C)(+55˚C)

Zones 0&1&2; 21&22

Cable entry table

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



		Size								
		M16×1.5	M20×1.5	M25×1.5	M32×1.5	M40×1.5	M50×1.5	M63×1.5	M75×1.5	M90×1.5
I	A/B	/	2	2	1	/	/	/	/	/
	C/D	/	2	2	1	/	/	/	/	/
IB	A/B	3	2	2	1	/	/	/	/	/
	C/D	3	2	2	1	/	/	/	/	/
II	A/B	3	2	2	2	1	/	/	/	/
	C/D	5	5	3	3	2	/	/	/	/
IIB	A/B	10	8	6	5	3	2	2	/	/
	C/D	6	6	5	3	2	2	1	/	/
III	A/B	8	6	3	2	2	1	/	/	/
	C/D	10	8	6	3	2	2	/	/	/
IV	A/B	10	8	6	5	3	2	1	/	/
	C/D	18	12	10	8	4	3	2	/	/
IVB	A/B	15	8	6	5	4	3	1	1	1
	C/D	27	12	10	8	5	4	3	3	1
IVC	A/B	15	8	6	5	4	3	1	1	1
	C/D	27	12	10	8	5	4	3	3	1
V	A/B	20	14	12	10	5	4	3	/	/
	C/D	18	12	10	8	4	3	2	/	/
VB	A/B	30	21	12	10	5	4	3	3	1
	C/D	27	18	10	8	5	4	3	2	1
VC	A/B	30	21	12	10	5	4	3	3	1
	C/D	27	18	10	8	5	4	3	2	1
VI	A/B	/	16	14	12	5	4	3	3	2
	C/D	/	14	12	8	5	4	3	3	2
VIB	A/B	/	24	21	18	8	5	4	3	2
	C/D	/	20	18	12	8	5	4	3	2
VII	A/B	30	21	12	10	5	4	3	2	1
	C/D	42	30	16	12	8	6	4	2	2
VIII	A/B	40	14	12	10	5	4	3	4	2
	C/D	68	25	21	17	10	6	6	4	2
VIIIB	A/B	40	14	12	10	5	4	3	4	2
	C/D	68	25	21	17	10	6	6	4	2
VIIIC	A/B	2×40	2×14	2×12	20	10	8	6	4	2
	C/D	2×68	2×25	2×21	17	10	6	6	4	2
VIIID	A/B	2×40	2×14	2×12	20	10	8	6	4	2
	C/D	2×68	2×25	2×21	17	10	6	6	4	2
VIIIE	A/B	4×40	4×14	4×12	40	20	16	12	8	4
	C/D	4×68	4×25	4×21	17	10	6	6	4	2
VIIIF	A/B	4×40	4×14	4×12	40	20	16	12	8	4
	C/D	4×68	4×25	4×21	17	10	6	6	4	2

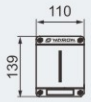
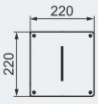
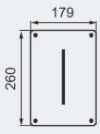
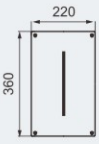
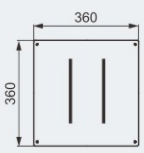
Note: For cable entries:

1) Please specify the direction and size of each cable entry.
2) Cable gland is optional, DQM-I (Ex eb) is recommended. Please see P6/18~23.

Selection table of BXJ8050 series terminal boxes

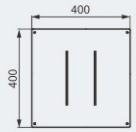
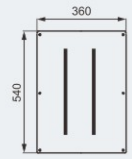
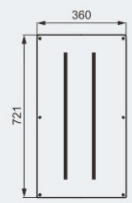
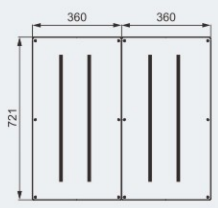
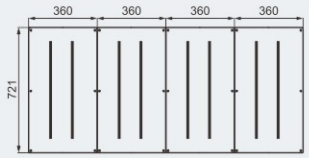
Max. cross section of cable connected to terminals is 300mm^2

See table for max. number of fitted terminals

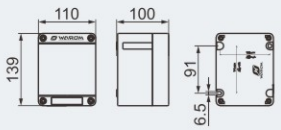
Cross section of cable (mm^2)		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Weight (kg)
Enclosure code/Ordering code	Outline							
I		12	10	8	—	—	—	0.80
IB		16	14	10	—	—	—	1.00
II		25	22	18	—	—	—	1.30
IIB		25	22	18	14	—	—	2.00
III		30	28	22	18	15	—	2.10
IV		44	40	32	25	20	—	3.25
IVB								4.00
IVC								4.25
V		88	80	60	50	40	14	4.15
VB								5.20
VC								5.90

Selection table of BXJ8050 series terminal boxes

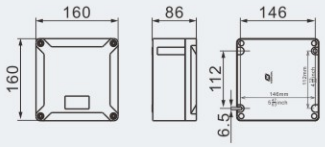
Max. cross section of cable connected to terminals is 300mm^2
See table for max. number of fitted terminals

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)
VI		100	90	65	55	44	15	6.70
VIB								8.10
VII		140	120	90	70	60	22	10.20
VIII		180	160	130	100	80	30	14.55
VIIIB								16.75
VIIIC		2×180	2×160	2×130	2×100	2×80	2×30	29.30
VIIID								33.80
VIIIE		4×180	4×160	4×130	4×100	4×80	4×30	59.30
VIIIF								70.80

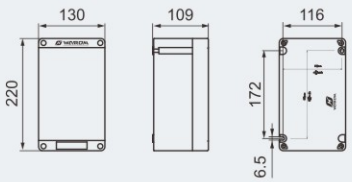
Dimension drawings (all dimensions in mm) - subject to alteration



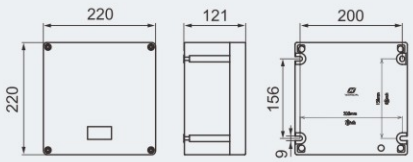
Type I



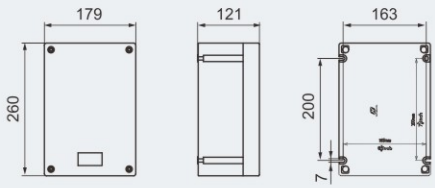
Type IB



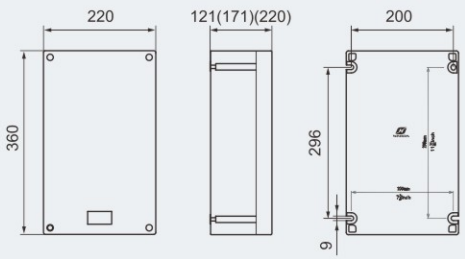
Type II



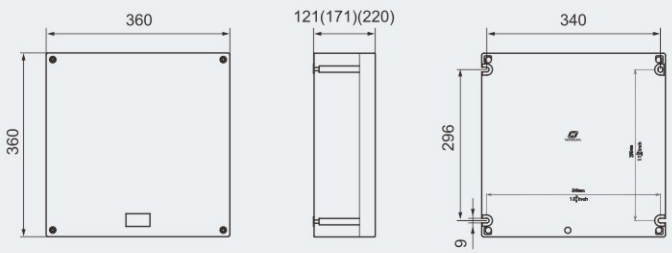
Type IIB



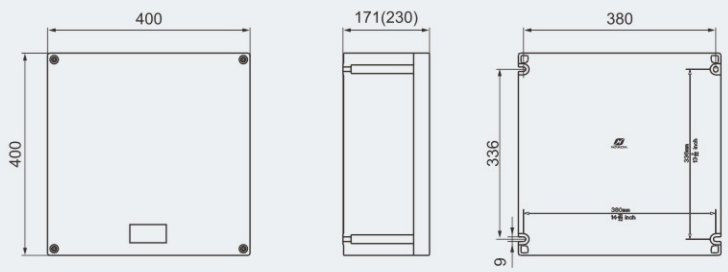
Type III



Type IV(IVB)(IVC)

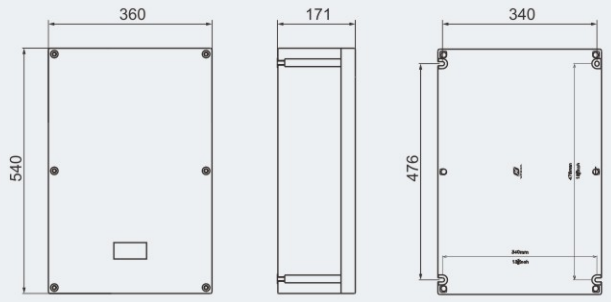


Type V(VB)(VC)

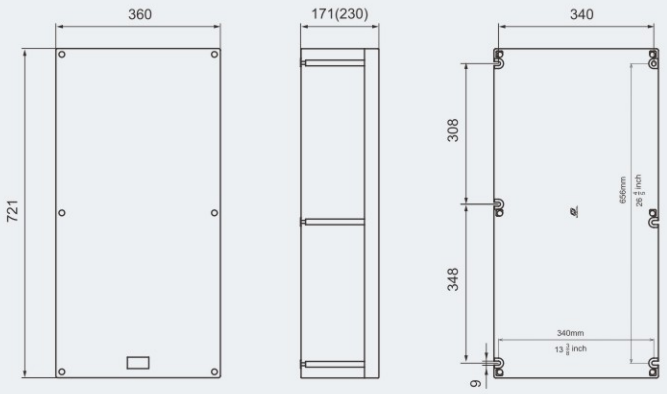


Type VI(VIB)

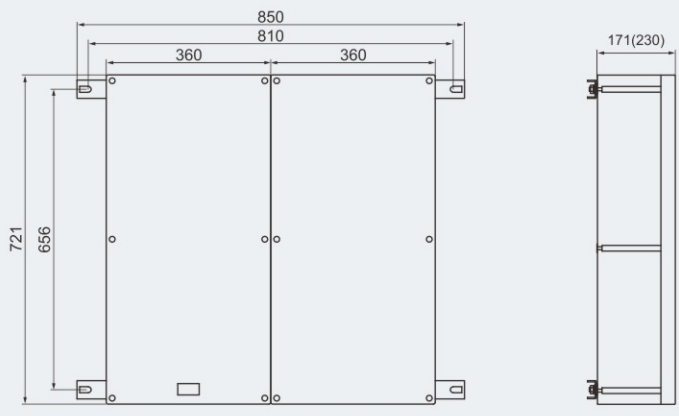
Dimension drawings (all dimensions in mm) - subject to alteration



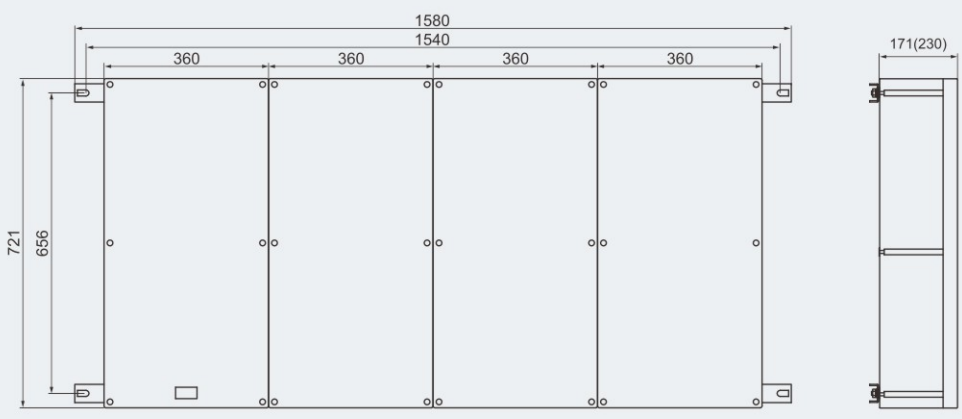
Type VII



Type VIII(VIIIB)



Type VIIIC(VIIID)



Type VIIIE(VIIIF)

Terminal Boxes
BXJ8050 Series Terminal Boxes

- 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 2, Groups A, B, C, D
- GRP (glass fibre-reinforced polyester resin) enclosure.
- Size and direction of cable entries can be customized on request.

Catalogue number logic

BXJ8050 - □ / □ □

- Number of terminals
- Rated current: 50
- Case model: I, IV
- Explosion-proof terminal box (GRP material)

Technical data

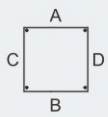
Explosion-proof terminal boxes BXJ8050-□/□□

Explosion protection	
Global (IECEx)	IECEx CQM 23.0001X
Gas and dust	Ex eb IIC T6/T5 Gb (Without fuse module) Ex eb mb IIC T6/T5 Gb (With fuse module) Ex tb IIIC T80˚C Db
Certificates	IECEx
Conformity to standards	IEC 60079-0, IEC 60079-7, IEC 60079-18, IEC 60079-31
Enclosure material	GRP (glass fibre-reinforced polyester resin)
Terminal	Stud terminals
Cross section of cable	1~10mm^2
Exposed fastener	Stainless steel
Rated voltage	Max. 1000V without fuse module, Max. 500V with fuse module
Rated current	Max. 50A. for terminals, Max. 10A for fuse module
Degree of protection	IP66
Ambient temperature	T6: -60˚C~+40˚C T5: -60˚C~+60˚C (Without fuse) -60˚C~+50˚C (With fuse)
Cable entries	Standard, see Cable entry table

Zones 1&2; 21&22

Cable entry table

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



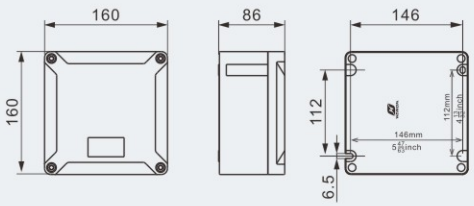
		Size					
		M20×1.5	M25×1.5	M32×1.5	M40×1.5	M50×1.5	M63×1.5
I	A/B	2	2	1	/	/	/
	C/D	2	2	1	/	/	/
VI	A/B	8	5	5	3	2	2
	C/D	6	5	3	2	2	1

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 P6/19~21.

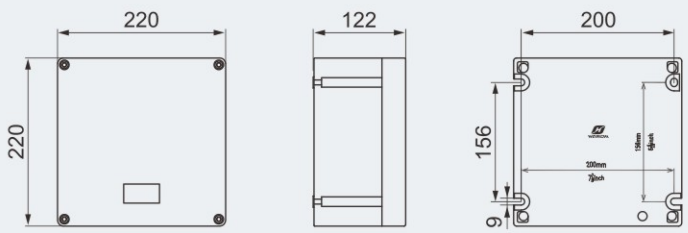
Terminals

Description	Illustration	Max. Current	Ordering code	Weight (kg)
Stud terminal		50A	30010B	0.1

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



Type I



Type IV