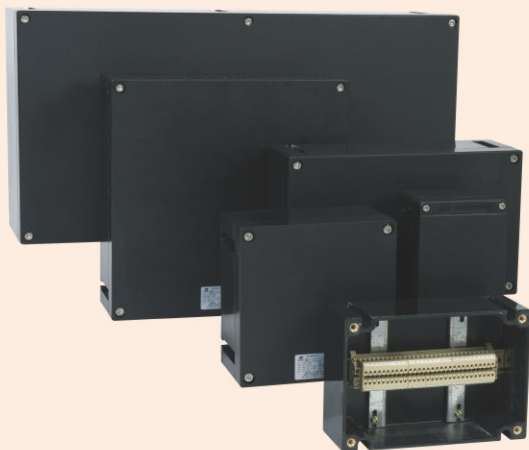


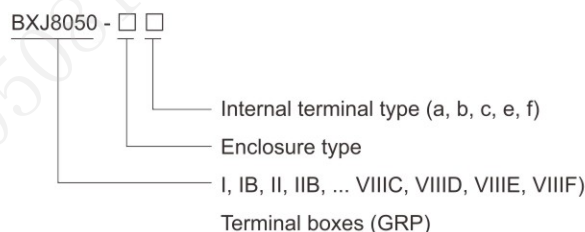
Terminal Boxes

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



Technical data

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

Explosion protection

Global (IECEX)
Gas and dust

IECEX CQM 13.0031X
Ex eb IIC T6...T4 Gb
Ex ia IIC T6 Ga
Ex ib IIC T6 Gb
Ex tb IIIC T80°C Db
LCIE 13 ATEX 3036X
⊕ II 2 G Ex eb IIC T6...T4 Gb
⊕ II 1 G Ex ia IIC T6 Ga
⊕ II 2 G Ex ib IIC T6 Gb
⊕ II 2 D Ex tb IIIC T80°C Db

Certificates

Conformity to standards

IECEX; ATEX; CU-TR
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)

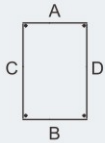
Zones 0&1&2; 21&22

Terminal Boxes

BXJ8050 Series Terminal Boxes

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
VIII B	A/B	40	14	12	10	5	4	3	4	2
	C/D	68	25	21	17	10	6	6	4	2
VIII C	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
VIII D	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
VIII E	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
VIII F	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.



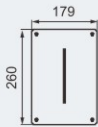
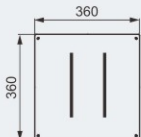
Terminal Boxes

BXJ8050 Series Terminal Boxes

Selection table of BXJ8050 series terminal boxes

Max. cross section of cable connected to terminals is 300mm²

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

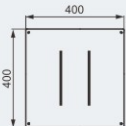
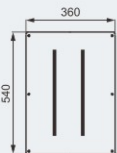
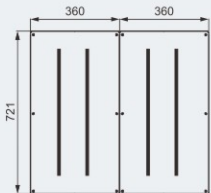
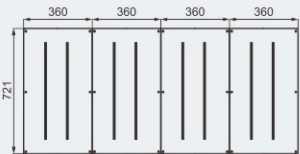
Terminal Boxes

BXJ8050 Series Terminal Boxes

Selection table of BXJ8050 series terminal boxes

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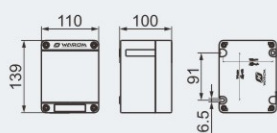
Enclosure code/Ordering code	Cross section of cable (mm ²) Outline	2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	Weight (kg)
VI		100	90	65	55	44	15	6.70
VIB								8.10
VII		140	120	90	70	60	22	10.20
VIII		180	160	130	100	80	30	14.55
VIIIB								16.75
VIIIC		2×180	2×160	2×130	2×100	2×80	2×30	29.30
VIIID								33.80
VIIIE		4×180	4×160	4×130	4×100	4×80	4×30	59.30
VIIIF								70.80



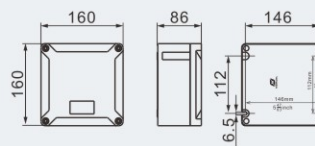
Terminal Boxes

BXJ8050 Series Terminal Boxes

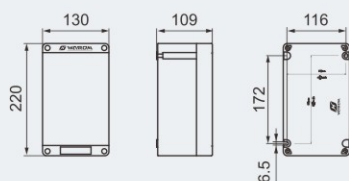
Dimension drawings (all dimensions in mm) - subject to alteration



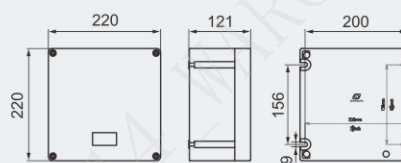
Type I



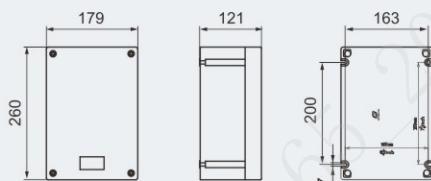
Type IB



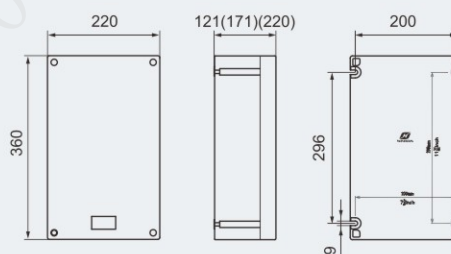
Type II



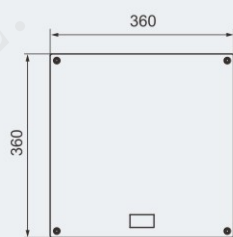
Type IIB



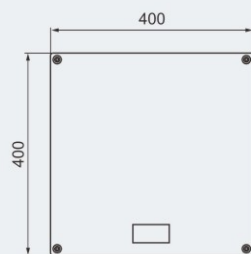
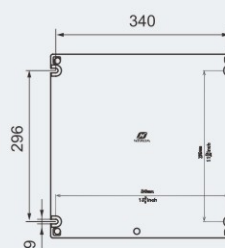
Type III



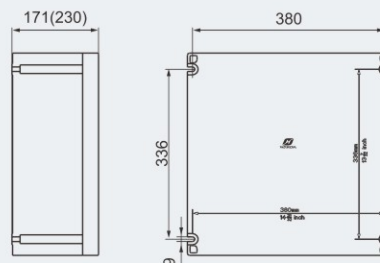
Type IV(IVB)(IVC)



Type V(VB)(VC)



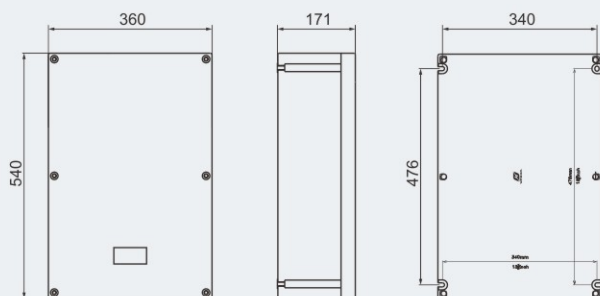
Type VI(VIB)



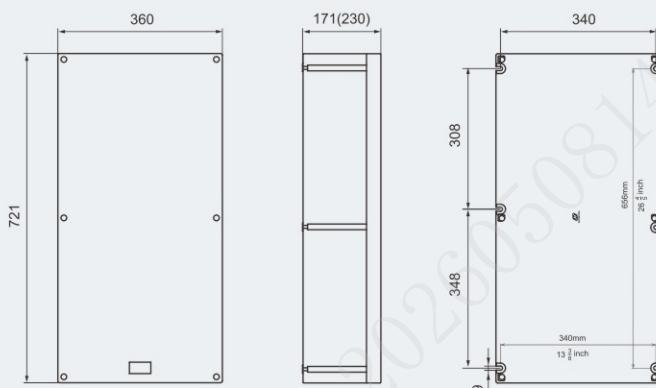
Terminal Boxes

BXJ8050 Series Terminal Boxes

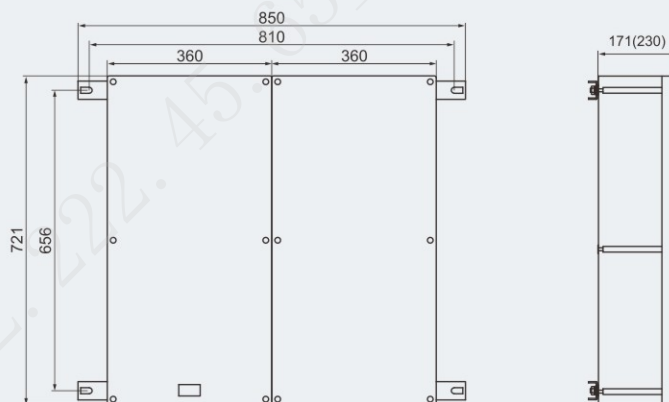
Dimension drawings (all dimensions in mm) - subject to alteration



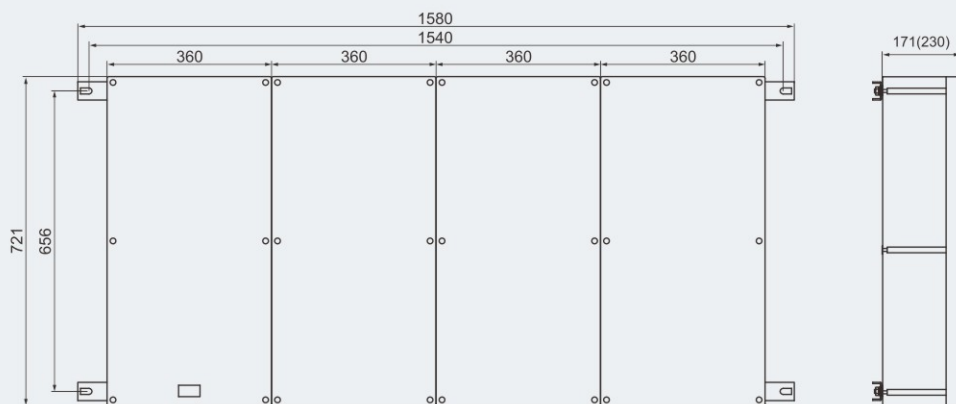
Type VII



Type VIII(VIIIB)



Type VIIIIC(VIIID)



Type VIIIE(VIIIF)

