

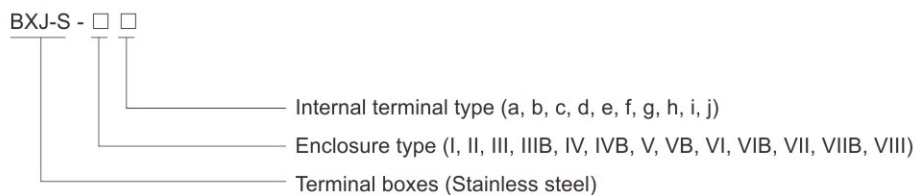
Terminal Boxes

BXJ-S 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
- ◆ Stainless steel enclosure.
- ◆ International brand of explosion-proof terminal blocks.

Catalogue number logic



Technical data

Terminal boxes (Ex eb IIC Ex ia IIC) BXJ-S-□ □

Explosion protection

Global (IECEX)
Gas and dust

IECEX CQM 21.0022X
Ex eb IIC T6...T3 Gb
Ex ia IIC T6 Ga
Ex tb IIIC T80°C...T130°C Db

Europe (ATEX)
Gas and dust

TPS 21 ATEX 089761 0020X
Ex II 2 G Ex eb IIC T6...T3 Gb
Ex II 1 G Ex ia IIC T6 Ga
Ex II 2 D Ex tb IIIC T80°C...T130°C Db

Certificates

Conformity to standards

IECEX; ATEX; CU-TR; INMETRO; UL
EN 60079-0, EN 60079-7, EN 60079-11, EN 60079-31
IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC 60079-31
UL 1203, UL 508, UL 50, UL 50E, UL 508A
CSA C22.2 No.213, CSA C22.2 No.14, CSA C22.2 No. 94.1, CSA C22.2 No. 94.2

Enclosure material

Terminal

Exposed fastener

Rated voltage

Stainless steel
International brand of explosion-proof terminal blocks
Stainless steel
Max. 1000V AC
Max. 1500V DC

Zones 0&1&2; 21&22

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Rated current	Max. 1000A					
	Cross section	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²
	Ex e Rated current	24A	32A	41A	57A	76A
	Ex ia Rated current	5A	5A	-	-	-
	Cross section	35mm ²	70mm ²	120mm ²	185mm ²	300mm ²
	Ex e Rated current	125A	192A	269A	353A	520A
	Ex ia Rated current	-	-	-	-	-
	Cross section	2 x 185mm ²	2 x 300mm ²	3 x 300mm ²	-	-
	Ex e Rated current	550A	700A	1000A	-	-
	Ex ia Rated current	-	-	-	-	-
Internal&external earthing	M6/M6					
Degree of protection	IP66					
Ambient temperature	Ex eb: -40°C/-60°C ~ +30°C/+40°C/+45°C/+55°C/+60°C/+70°C Ex ia: -40°C/-60°C ~ +70°C					

Cable entry table

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

A C B D		 		Size								
				M20 x 1.5	M25 x 1.5	M32 x 1.5	M40 x 1.5	M50 x 1.5	M63 x 1.5	M75 x 1.5	M90 x 1.5	M115 x 1.5
I	A/B	2	2	1	1	1	/	/	/	/		
	C/D	2	2	1	1	1	/	/	/	/		
II	A/B	8	8	3	3	2	1	/	/	/		
	C/D	8	8	3	3	2	1	/	/	/		
III	A/B	10	8	5	5	3	2	/	/	/		
	C/D	10	8	5	5	3	2	/	/	/		
IIIB	A/B	15	12	8	8	6	2	/	/	/		
	C/D	10	8	5	5	3	2	/	/	/		
IV	A/B	10	10	5	4	3	3	/	/	/		
	C/D	14	12	7	5	4	4	/	/	/		
IVB	A/B	15	15	8	8	6	3	/	/	/		
	C/D	21	18	10	10	8	4	/	/	/		
V	A/B	16	16	8	6	5	4	/	/	/		
	C/D	16	16	8	6	5	4	/	/	/		
VB	A/B	24	24	21	12	10	8	/	/	/		
	C/D	24	24	21	12	10	8	/	/	/		
VI	A/B	27	24	14	12	10	5	/	/	/		
	C/D	30	30	16	14	12	6	/	/	/		
VIB	A/B	45	32	28	18	15	10	/	/	/		
	C/D	55	40	32	21	18	12	/	/	/		
VII	A/B	30	30	16	14	12	6	/	/	/		
	C/D	42	39	22	20	16	8	/	/	/		
VIIIB	A/B	55	40	32	21	18	12	7	6	3		
	C/D	70	52	44	30	24	16	11	9	4		
VIII	A/B	70	52	44	30	24	16	11	9	4		
	C/D	90	64	56	36	33	20	16	14	5		

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 P7/19~21.
- 3) Can be equipped with Gland plate.



Terminal Boxes

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Selection table for max. dissipated power

Enclosure type	Ambient temperature	Maximum heat loss power consumption (W)			Enclosure type	Ambient temperature	Maximum heat loss power consumption (W)		
		T6 or T80°C	T5 or T80°C	T4 or T95°C			T6 or T80°C	T5 or T80°C	T4 or T95°C
BXJ-S-I	-60°C to +40°C	5.87	7.93	-	BXJ-S-VB	-60°C to +40°C	107.37	167.77	-
	-60°C to +45°C	5.31	7.45	-		-60°C to +45°C	60.4	154.61	-
	-60°C to +55°C	-	5.87	-		-60°C to +55°C	-	107.37	-
	-60°C to +60°C	2.91	5.31	-		-60°C to +60°C	52.61	60.4	-
	-60°C to +70°C	-	2.91	7.93		-60°C to +70°C	-	52.61	167.77
BXJ-S-II	-60°C to +40°C	46.98	72.15	-	BXJ-S-VI	-60°C to +40°C	111.96	168.4	-
	-60°C to +45°C	41.19	64.72	-		-60°C to +45°C	99.65	143.49	-
	-60°C to +55°C	-	46.98	-		-60°C to +55°C	-	111.96	-
	-60°C to +60°C	19.59	41.19	-		-60°C to +60°C	48.83	99.65	-
	-60°C to +70°C	-	19.59	72.15		-60°C to +70°C	-	48.83	168.4
BXJ-S-III	-60°C to +40°C	26.48	36.79	-	BXJ-S-VIB	-60°C to +40°C	166.55	288.35	-
	-60°C to +45°C	22.84	36.34	-		-60°C to +45°C	157.9	254.79	-
	-60°C to +55°C	-	26.48	-		-60°C to +55°C	-	166.55	-
	-60°C to +60°C	16.35	22.84	-		-60°C to +60°C	46.14	157.9	-
	-60°C to +70°C	-	16.35	36.79		-60°C to +70°C	-	46.14	288.35
BXJ-S-IIIB	-60°C to +40°C	19.97	39.14	-	BXJ-S-VII	-60°C to +40°C	288.28	425.07	-
	-60°C to +45°C	16.78	35.5	-		-60°C to +45°C	248.57	376.53	-
	-60°C to +55°C	-	19.97	-		-60°C to +55°C	-	288.28	-
	-60°C to +60°C	8.44	16.78	-		-60°C to +60°C	110.48	248.57	-
	-60°C to +70°C	-	8.44	39.14		-60°C to +70°C	-	110.48	425.07
BXJ-S-IV	-60°C to +40°C	66.16	102.46	-	BXJ-S-VIIB	-60°C to +40°C	279.63	374.9	-
	-60°C to +45°C	52.28	81.68	-		-60°C to +45°C	223.86	341.6	-
	-60°C to +55°C	-	66.16	-		-60°C to +55°C	-	279.63	-
	-60°C to +60°C	29.4	52.28	-		-60°C to +60°C	121.03	223.86	-
	-60°C to +70°C	-	29.4	102.46		-60°C to +70°C	-	121.03	374.9
BXJ-S-IVB	-60°C to +40°C	115.24	191.22	-	BXJ-S-VIII	-60°C to +40°C	577.44	816.6	-
	-60°C to +45°C	111.37	162.22	-		-60°C to +45°C	546.65	799.9	-
	-60°C to +55°C	-	115.24	-		-60°C to +55°C	-	577.44	-
	-60°C to +60°C	52.97	111.37	-		-60°C to +60°C	263.62	546.65	-
	-60°C to +70°C	-	52.97	191.22		-60°C to +70°C	-	263.62	816.6
BXJ-S-V	-60°C to +40°C	127.22	195.34	-					
	-60°C to +45°C	106.06	175.32	-					
	-60°C to +55°C	-	127.22	-					
	-60°C to +60°C	47.14	106.06	-					
	-60°C to +70°C	-	47.14	195.34					



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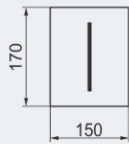
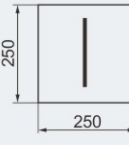
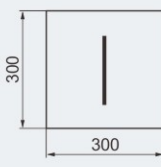
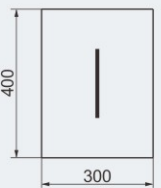
For current exceeds 520A, the copper bar is used. The below table applies.

Enclosure type	Ambient temperature	Maximum heat loss power consumption (W)			Enclosure type	Ambient temperature	Maximum heat loss power consumption (W)		
		T6 or T80°C	T5 or T80°C	T4 or T95°C			T6 or T80°C	T5 or T80°C	T4 or T95°C
BXJ-S-VI	-60°C to +30°C	SS (550A)	-	-	BXJ-S-VIIB	-60°C to +30°C	SS (550A)	-	-
	-60°C to +70°C	-	SS (550A)	-		-60°C to +70°C	-	SS (550A)	-
BXJ-S-VIB	-60°C to +30°C	SS (550A)	-	-	BXJ-S-VIIB	-60°C to +70°C	-	MS (700A)	-
	-60°C to +70°C	-	SS (550A)	-		-60°C to +30°C	SS (550A)	-	-
BXJ-S-VII	-60°C to +30°C	SS (550A)	-	-	BXJ-S-VIII	-60°C to +70°C	-	SS (550A)	-
	-60°C to +70°C	-	SS (550A)	-		-60°C to +70°C	-	MS (700A)	-
	-60°C to +70°C	-	MS (700A)	-		-60°C to +70°C	-	-	LS (1000A)

Selection table of BXJ-S 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)	70 (g)	120 (h)	185 (i)	300 (j)	Weight (kg)
Enclosure code/Ordering code	Outline											
I		12	12	8	—	—	—	—	—	—	—	1.73
II		27	23	18	15	12	8	—	—	—	—	3.80
III, IIIB		30	28	25	20	14	10	—	—	—	—	5.20 (III)
												5.77 (IIIB)
IV, IVB		45	40	35	28	23	9	—	—	—	—	6.50 (IV)
												7.10 (IVB)



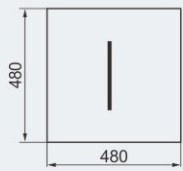
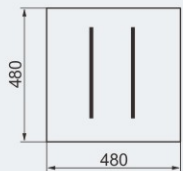
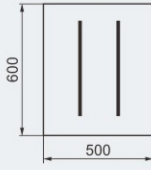
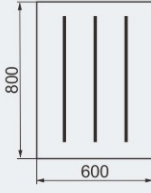
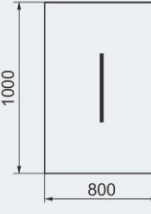
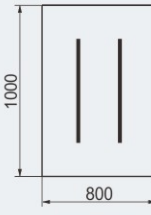
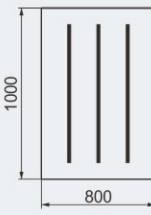
Terminal Boxes

BXJ-S Series Terminal Boxes

Selection table of BXJ-S series terminal boxes

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

See table for max. number of fitted terminals

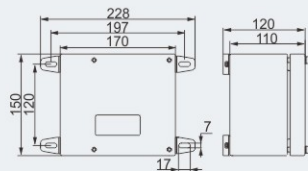
Cross section of cable (mm ²)		2.5 (a)	4 (b)	6 (c)	10 (d)	16 (e)	35 (f)	70 (g)	120 (h)	185 (i)	300 (j)	Weight (kg)
Enclosure code/Ordering code	Outline											
V, VB		56	50	40	30	20	16	—	—	—	—	12.40 (V)
												17.60 (VB)
		112	100	80	60	40	—	—	—	—	—	12.70 (V)
												17.90 (VB)
VI, VIB		150	140	120	100	80	56	—	—	—	—	17.60 (VI)
												26.40 (VIB)
VII, VIIB		315	300	240	225	180	120	—	—	—	—	29.30 (VII)
												34.30 (VIIB)
VIII		135	125	105	95	80	50	27	24	18	18	
		270	250	210	190	160	100	—	—	—	—	52.00 (VIII)
		405	375	315	285	240	—	—	—	—	—	



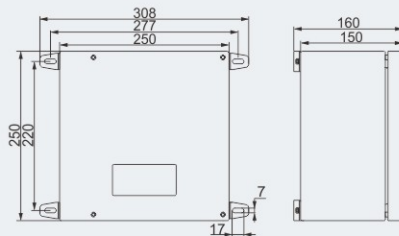
Terminal Boxes

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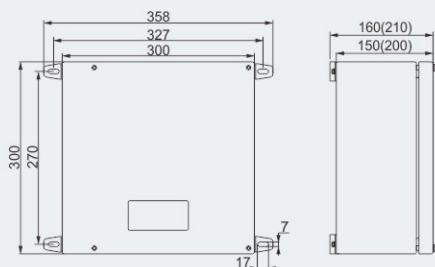
Dimension drawings (all dimensions in mm) - subject to alteration



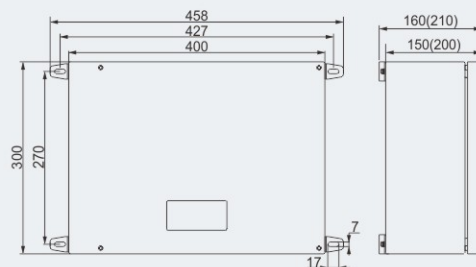
Type I



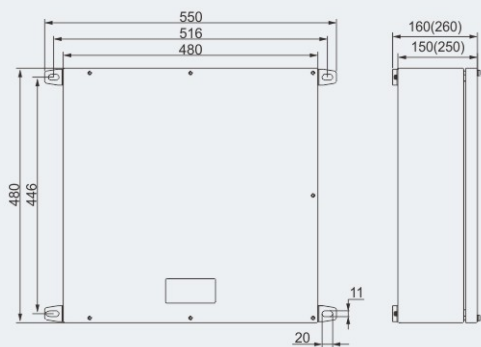
Type II



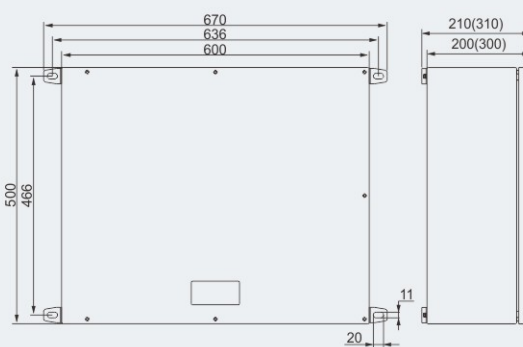
Type III, IIIB



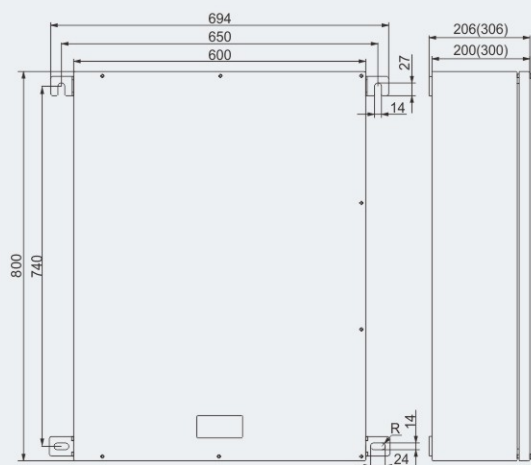
Type IV, IVB



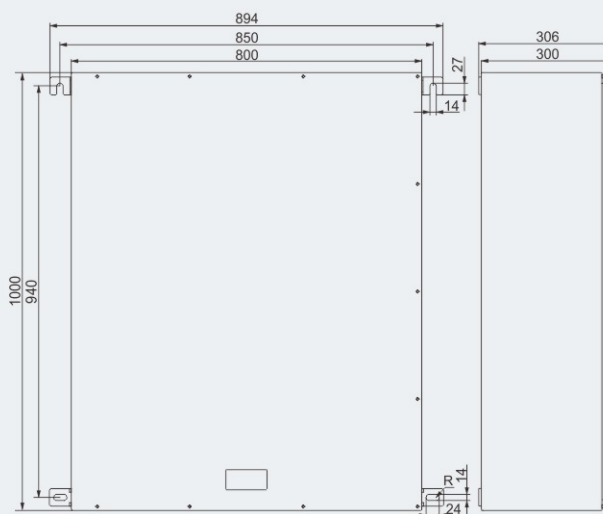
Type V, VB



Type VI, VIB



Type VII, VIIB



Type VIII

