

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

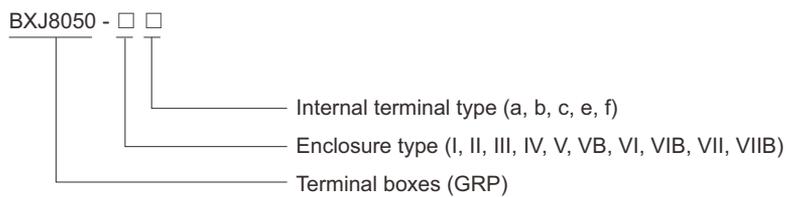
Class I, Zone 1 and Zone 2

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



Zones 0&1&2; 21&22

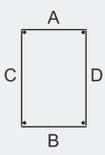
Terminal Boxes

BXJ8050 Series Terminal Boxes

| 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 | ⊕ II 2 G Ex e IIC T6 or T5 Gb ⊕ II 1 G Ex ia IIC T6 Ga ⊕ 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 | <table border="1"> <thead> <tr> <th>Cross section</th> <th>2.5mm²</th> <th>4mm²</th> <th>6mm²</th> <th>10mm²</th> <th>16mm²</th> <th>35mm²</th> </tr> </thead> <tbody> <tr> <td>Ex e Rated current</td> <td>20A</td> <td>28A</td> <td>35A</td> <td>45A</td> <td>60A</td> <td>100A</td> </tr> <tr> <td>Ex ia Rated current</td> <td>5A</td> <td>5A</td> <td>5A</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> | Cross section | 2.5mm ² | 4mm ² | 6mm ² | 10mm ² | 16mm ² | 35mm ² | Ex e Rated current | 20A | 28A | 35A | 45A | 60A | 100A | Ex ia Rated current | 5A | 5A | 5A | - | - | - |
| Cross section | 2.5mm ² | 4mm ² | 6mm ² | 10mm ² | 16mm ² | 35mm ² | | | | | | | | | | | | | | | | |
| 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 × 1.5 | M75 × 1.5 | M90 × 1.5 | M115 × 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 P7/19~21.



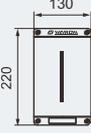
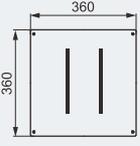
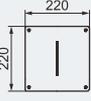
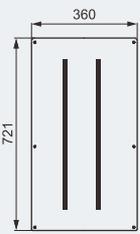
Terminal Boxes

BXJ8050 Series Terminal Boxes

Selection table of BXJ8050 series terminal boxes

Max. cross section of cable connected to terminals is 35mm²

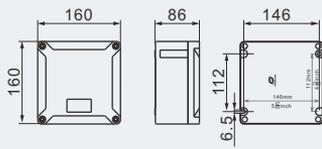
See table for max. number of fitted terminals

| Enclosure code/Ordering code | Outline | Cross section of cable (mm ²) | | | | | | Max. dissipated power (W) | Weight (kg) |
|------------------------------|---|---|-------|-------|--------|--------|--------|---------------------------|-------------|
| | | 2.5 (a) | 4 (b) | 6 (c) | 10 (d) | 16 (e) | 35 (f) | | |
| I |  | 12 | 10 | 8 | — | — | — | 2.30 | 0.80 |
| II |  | 25 | 22 | 18 | — | — | — | 6.81 | 1.30 |
| III |  | 30 | 28 | 22 | 18 | 15 | — | 6.50 | 2.10 |
| IV |  | 44 | 40 | 32 | 25 | 20 | — | 14.32 | 3.25 |
| IVB | | | | | | | | | 4.00 |
| V |  | 88 | 80 | 60 | 50 | 40 | 14 | 28.08 | 4.15 |
| VB | | | | | | | | | 5.20 |
| VI |  | 25 | 22 | 18 | 14 | — | — | 7.92 | 2.00 |
| VII |  | 180 | 160 | 130 | 100 | 80 | 30 | 25.00 | 14.55 |
| VIIB | | | | | | | | | 16.75 |

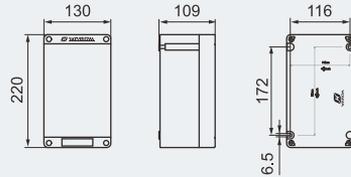


Terminal Boxes BXJ8050 Series Terminal Boxes

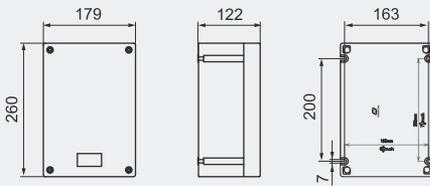
Dimension drawings (all dimensions in mm) - subject to alteration



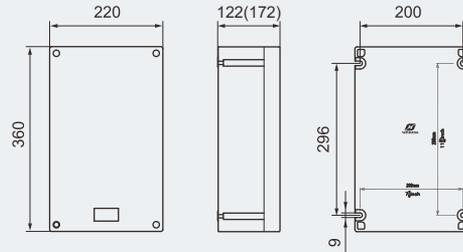
Type I



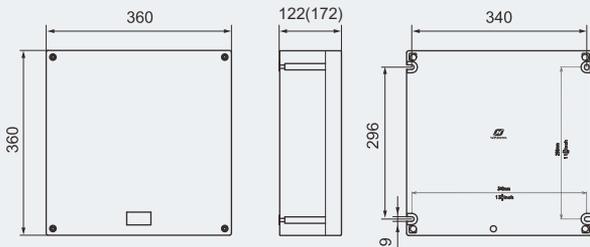
Type II



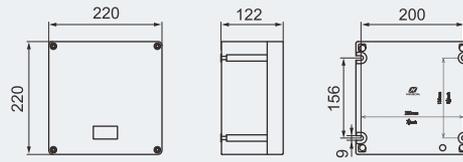
Type III



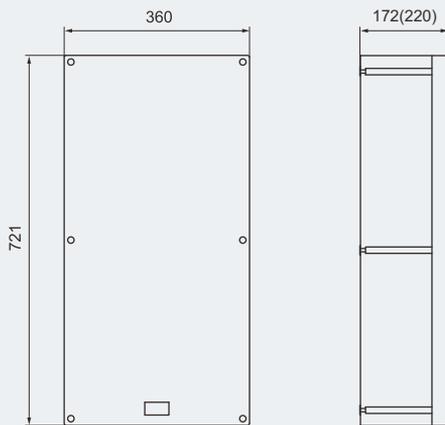
Type IV(IVB)



Type V(VB)



Type VI



Type VII(VIIB)

