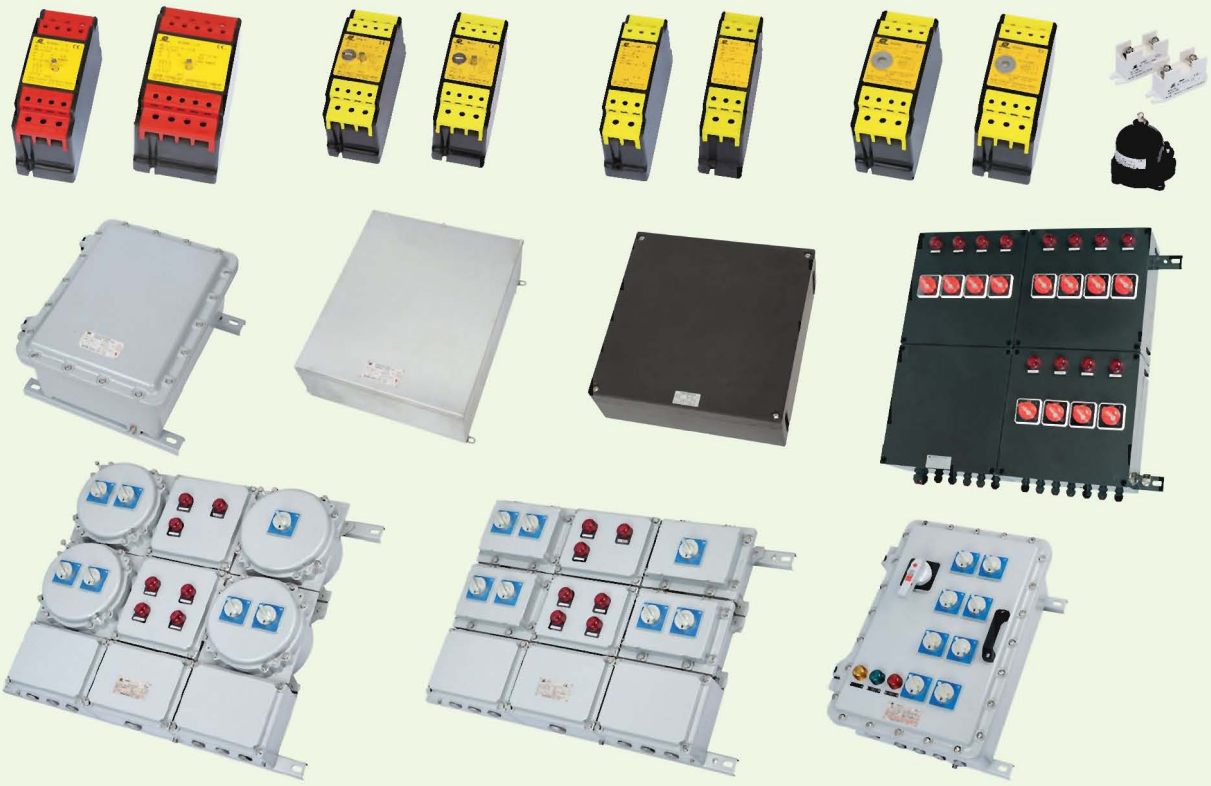
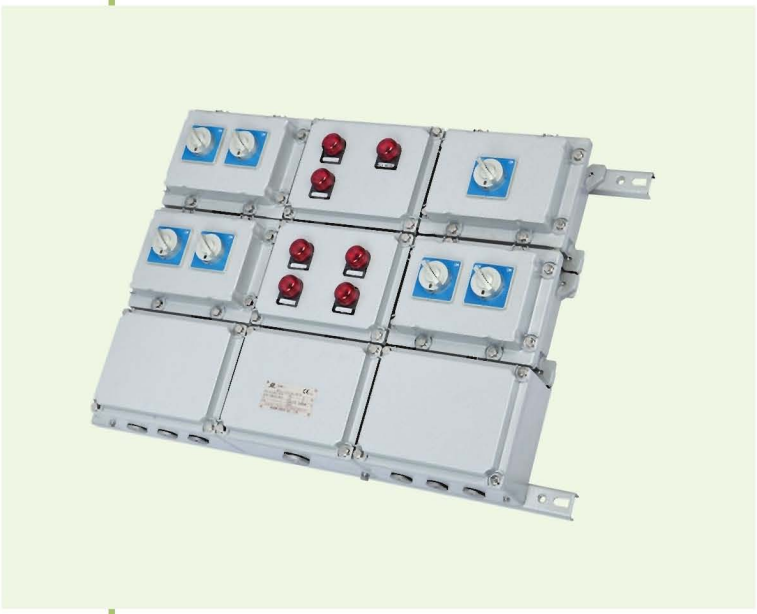
6 Distribution Boxes and Empty Enclosures



Contents

More products are under development. Please contact us or visit our website for the latest development. We reserve the right to make alteration to the technical data, weight, dimensions, designs and products available without notice.

Distribution Boxes and Empty Enclosures



Distribution Boxes

BXM(D)51 Series Explosion-proof Illumination (Power) Distribution Boxes (Ex de IIB)

- 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 C, D
- Enclosure for modular combination (Ex d & Ex e).
- Main switch and distribution switch are operated with external handle.
- Internal wiring to the terminal is finished.
- Weidmuller SAK EN series terminals.
- Entries plugged. Cable glands on request (see P7/17~19).
- Special requirements on request.

Catalogue number logic

BX M(D) 51- □/□/□/□

- Main switch current
- K: with main switch (optional)
- Sub-circuit current
- Sub-circuit number
- Design No.
- M: illumination D: power
- Explosion-proof distribution boxes

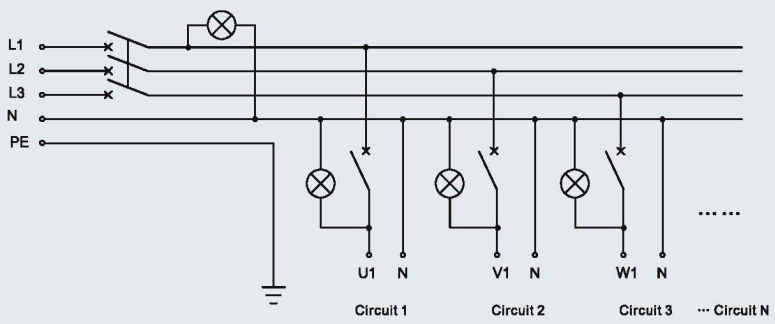
Zones 1&2; 21&22

Technical data

Explosion-proof illumination distribution boxes BXM51-□/□/□/□

Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex de IIB T6
Dust explosion protection	Ex tD A21 T80℃ IP65
Certificates	
For gas explosion protection	PTB 03 ATEX 1078; IECEx CQM 07. 0012
For dust explosion protection	PCEC (China)
Conformity to standards	EN 50014:1997+A1+A2, EN 50018:2000+A1, EN 50019:2000 IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2001 IEC 61241-0:2004, IEC 61241-1:2004
General power supply	Rated voltage: max. 415V AC 50/60Hz; Rated current: max.100A
Sub circuit current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A
Exposed fastener	Stainless steel
Enclosure	
Enclosure material	Copper-free aluminium; powder coated surface
Enclosure colour	Window grey (RAL7040)
Enclosure type	Modular combination (Ex d & Ex e); MCB, MCCB or other components in Ex d compartment, indicators and terminals in Ex e compartment.
Built-in components	
Main switch	MCB (mini circuit breaker) or MCCB (moulded case circuit breaker) Note: electric leakage protection on request
Sub-circuit switch	MCB (mini circuit breaker) Note: electric leakage protection on request
Terminal	Weidmuller SAK EN series
Indicator	Red
Degree of protection	IP65
Ambient temperature	-20℃~+55℃
Cable entries	Standard M□ x 1.5 plug (see the Selection Table on P6/4)
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/17~19
Entry direction	Bottom
Mounting	Surface type (standard) Pedestal type (optional)

Electrical schematic diagram



BXM51 series explosion-proof illumination distribution boxes

Distribution Boxes
BXM51 Series Explosion-proof Illumination Distribution Boxes (Ex de IIB)

Selection table of BXM 51 series explosion-proof illumination distribution boxes

Type	Description					Terminal	Cable entries
	Main switch	Sub-circuit number	Sub-circuit switch	Sub-circuit current	Indicator number		
BXM51-4/□/K/□	MCB or MCCB Current: max. 100A	4	MCB 1 P/2 P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	1+4	Incoming 3 x SAK35EN+1N+1PE Outgoing 4 x SAK4EN+4N+4PE	1 x M40 x 1.5 + 4 x M25 x 1.5
BXM51-6/□/K/□		6			1+6	Incoming 3 x SAK35EN+1N+1PE Outgoing 6 x SAK4EN+6N+6PE	1 x M40 x 1.5 + 6 x M25 x 1.5
BXM51-8/□/K/□		8			1+8	Incoming 3 x SAK35EN+1N+1PE Outgoing 8 x SAK4EN+8N+8PE	1 x M40 x 1.5 + 8 x M25 x 1.5
BXM51-10/□/K/□		10			1+10	Incoming 3 x SAK35EN+1N+1PE Outgoing 10 x SAK4EN+10N+10PE	1 x M40 x 1.5 + 10 x M25 x 1.5
BXM51-12/□/K/□		12			1+12	Incoming 3 x SAK35EN+1N+1PE Outgoing 12 x SAK4EN+12N+12PE	1 x M40 x 1.5 + 12 x M25 x 1.5
BXM51-4/□	—	4	MCB 1 P/2 P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	4	Incoming 3 x SAK35EN+1N+1PE Outgoing 4 x SAK4EN+4N+4PE	1 x M40 x 1.5 + 4 x M25 x 1.5
BXM51-6/□		6			6	Incoming 3 x SAK35EN+1N+1PE Outgoing 6 x SAK4EN+6N+6PE	1 x M40 x 1.5 + 6 x M25 x 1.5
BXM51-8/□		8			8	Incoming 3 x SAK35EN+1N+1PE Outgoing 8 x SAK4EN+8N+8PE	1 x M40 x 1.5 + 8 x M25 x 1.5
BXM51-10/□		10			10	Incoming 3 x SAK35EN+1N+1PE Outgoing 10 x SAK4EN+10N+10PE	1 x M40 x 1.5 + 10 x M25 x 1.5
BXM51-12/□		12			12	Incoming 3 x SAK35EN+1N+1PE Outgoing 12 x SAK4EN+12N+12PE	1 x M40 x 1.5 + 12 x M25 x 1.5

Note

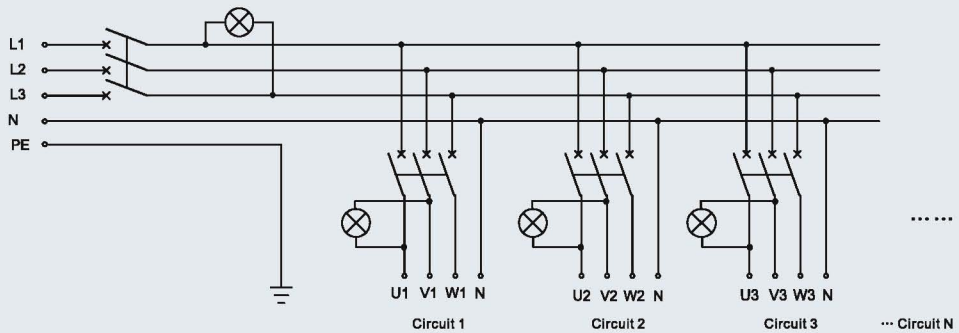
1. Please specify the number and size of cable entries and sides of the enclosure to be fitted.
2. Single line drawing (SLD) shall be provided by user. Photocell, timer, AC contactor, thermal relay or others on request.
3. Please specify mounting type when ordering.
4. Rainproof canopy on request.

Technical data

Explosion-proof power distribution boxes BXD51-□/□/□/□

Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex de IIB T6
Dust explosion protection	Ex tD A21 T80℃ IP65
Certificates	
For gas explosion protection	PTB 03 ATEX 1078; IECEx CQM 07.0012
For dust explosion protection	PCEC (China)
Conformity to standards	EN 50014:1997+A1+A2, EN 50018:2000+A1, EN 50019:2000 IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2001 IEC 61241-0:2004, IEC 61241-1:2004
General power supply	Rated voltage: max. 415V AC 50/60Hz; Rated current: max. 250A
Sub circuit current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Exposed fastener	Stainless steel
Enclosure	
Enclosure material	Copper-free aluminium; powder coated surface
Enclosure colour	Window grey (RAL7040)
Enclosure type	Modular combination (Ex d & Ex e); MCB, MCCB or other components in Ex d compartment, indicators and terminals in Ex e compartment.
Built-in components	
Main switch	MCB (mini circuit breaker) or MCCB (moulded case circuit breaker) Note: electric leakage protection on request
Sub-circuit switch	MCB (mini circuit breaker) Note: electric leakage protection on request
Terminal	Weidmuller SAK EN series
Indicator	Red
Degree of protection	IP65
Ambient temperature	-20℃~+55℃
Cable entries	Standard M□ x 1.5 plug (see the Selection Table on P6/6)
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/17~19
Entry direction	Bottom
Mounting	Surface type (standard) Pedestal type (optional)

Electrical schematic diagram



BXD51 series explosion-proof power distribution boxes

Distribution Boxes
BXD51 Series Explosion-proof Power Distribution Boxes (Ex de IIB)

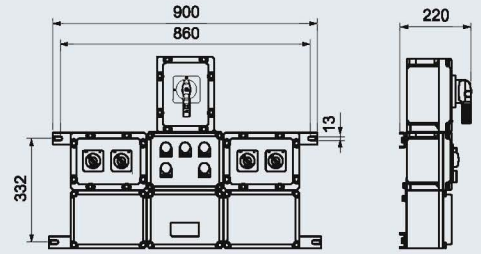
Selection table of BXD51 series explosion-proof power distribution boxes

Type	Description					Terminal	Cable entries
	Main switch	Sub-circuit number	Sub-circuit switch	Sub-circuit current	Indicator number		
BXD51-4/□/K/□	MCB or MCCB Current: max. 250A	4	MCB 3P	1A 2A 4A 6A 10A 16A 20A 25A 32A 40A 50A 63A On request	1+4	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 12 x SAK10EN+4N+4PE	1 x M50 x 1.5 + 4 x M25 x 1.5
BXD51-6/□/K/□		6			1+6	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 18 x SAK10EN+6N+6PE	1 x M50 x 1.5 + 6 x M25 x 1.5
BXD51-8/□/K/□		8			1+8	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 24 x SAK10EN+8N+8PE	1 x M50 x 1.5 + 8 x M25 x 1.5
BXD51-10/□/K/□		10			1+10	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 30 x SAK10EN+10N+10PE	1 x M50 x 1.5 + 10 x M25 x 1.5
BXD51-12/□/K/□		12			1+12	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 36 x SAK10EN+12N+12PE	1 x M50 x 1.5 + 12 x M25 x 1.5
BXD51-4/□	—	4	MCB 3P	1A 2A 4A 6A 10A 16A 20A 25A 32A 40A 50A 63A On request	4	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 12 x SAK10EN+4N+4PE	1 x M50 x 1.5 + 4 x M25 x 1.5
BXD51-6/□		6			6	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 18 x SAK10EN+6N+6PE	1 x M50 x 1.5 + 6 x M25 x 1.5
BXD51-8/□		8			8	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 24 x SAK10EN+8N+8PE	1 x M50 x 1.5 + 8 x M25 x 1.5
BXD51-10/□		10			10	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 30 x SAK10EN+10N+10PE	1 x M50 x 1.5 + 10 x M25 x 1.5
BXD51-12/□		12			12	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 36 x SAK10EN+12N+12PE	1 x M50 x 1.5 + 12 x M25 x 1.5

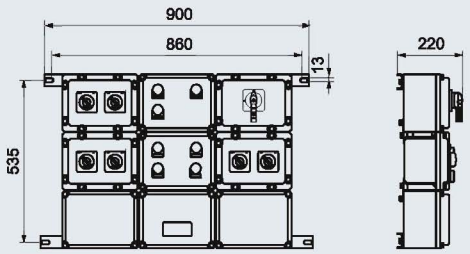
Note

1. Please specify the number and size of cable entries and sides of the enclosure to be fitted.
2. Single line drawing (SLD) shall be provided by user. Photocell, timer, AC contactor, thermal relay or others on request.
3. Please specify mounting type when ordering.
4. Rainproof canopy on request.

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



BXM(D)51-4/☐/K/☐



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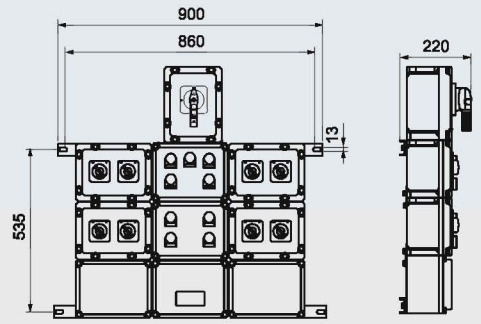

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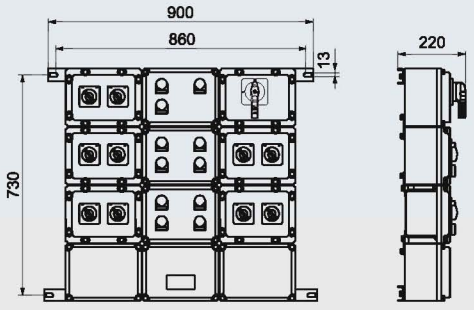

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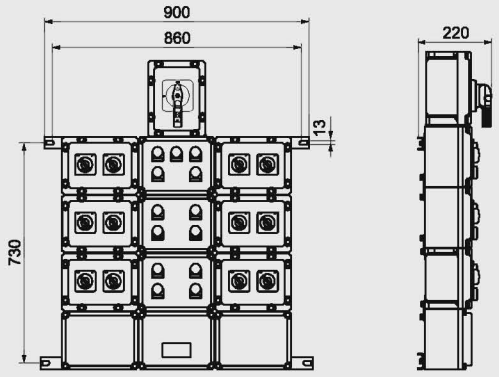
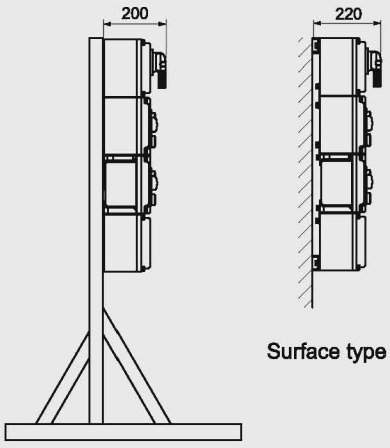


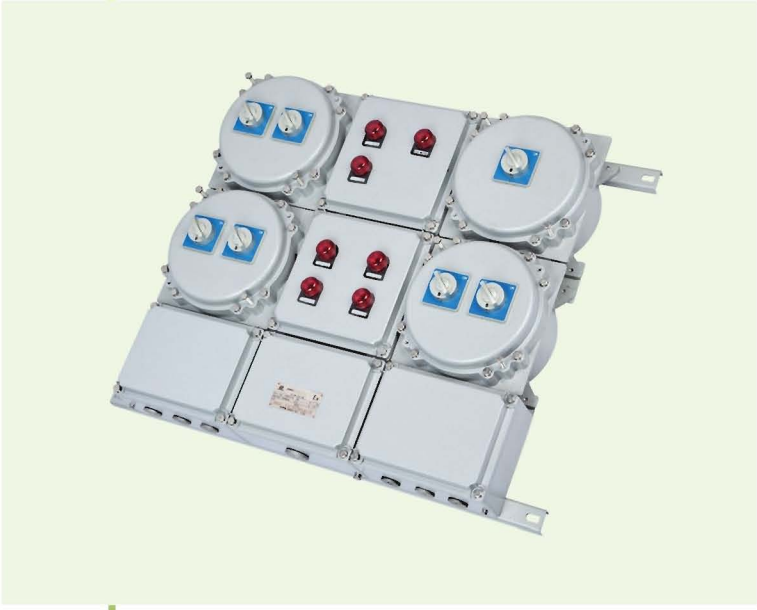
BXM(D)51-12/☐/K/☐



Surface type

Pedestal type

Distribution Boxes and Empty Enclosures



Distribution Boxes

BXM(D)53 Series Explosion-proof Illumination (Power) Distribution Boxes (Ex de IIC)

- 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
- Enclosure for modular combination (Ex d & Ex e).
- Main switch and distribution switch are operated with external handle.
- Internal wiring to the terminal is finished.
- Weidmuller SAK EN series terminals.
- Entries plugged. Cable glands on request (see P7/17~19).
- Special requirements on request.

Catalogue number logic

BX M(D) 53- □/□/□/□

- Main switch current
- K: with main switch (optional)
- Sub-circuit current
- Sub-circuit number
- Design No.
- M: illumination D: power
- Explosion-proof distribution boxes

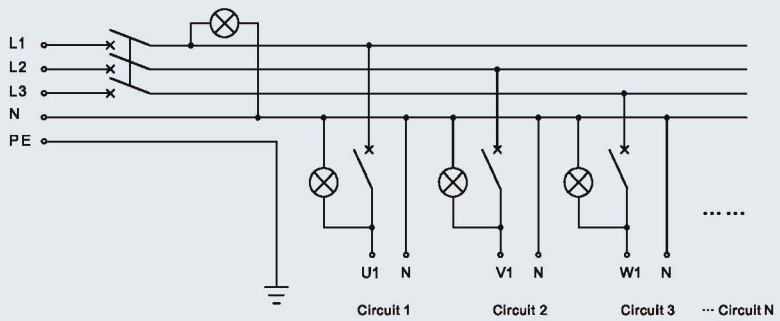
Zones 1&2; 21&22

Technical data

Explosion-proof illumination distribution boxes BXM53-□/□/□/□

Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex de IIC T6 Gb
Dust explosion protection	Ⓔx II 2 D Ex tb IIIC T80℃ Db IP65
Certificates	DNV 11 ATEX 02455X; IECEx CQM 11.0042X
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009
	IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008
General power supply	Rated voltage: max. 690V AC 50/60Hz; Rated current: max.100A
Sub circuit current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A
Exposed fastener	Stainless steel
Enclosure	
Enclosure material	Copper-free aluminium; powder coated surface
Enclosure colour	Window grey (RAL7040)
Enclosure type	Modular combination (Ex d & Ex e); MCB, MCCB or other components in Ex d compartment, indicators and terminals in Ex e compartment.
Built-in components	
Main switch	MCB (mini circuit breaker) or MCCB (moulded case circuit breaker)
	Note: electric leakage protection on request
Sub circuit switch	MCB (mini circuit breaker)
	Note: electric leakage protection on request
Terminal	Weidmuller SAK EN series
Indicator	Red
Degree of protection	IP65
Ambient temperature	-20℃~+53℃
Cable entries	Standard M□ x 1.5 plug (see the Selection Table on P6/10)
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/17~19
Entry direction	Bottom
Mounting	Surface type (standard)
	Pedestal type (optional)

Electrical schematic diagram



BXM53 series explosion-proof illumination distribution boxes

Distribution Boxes
BXM53 Series Explosion-proof Illumination Distribution Boxes (Ex de IIC)

Selection table of BXM53 series explosion-proof illumination distribution boxes

Type	Description					Terminal	Cable entries
	Main switch	Sub-circuit number	Sub-circuit switch	Sub-circuit current	Indicator number		
BXM53-4/□/K/□	MCB or MCCB Current: max. 100A	4	MCB 1P/2P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	1+4	Incoming 3 x SAK35EN+1N+1PE Outgoing 4 x SAK4EN+4N+4PE	1 x M40 x 1.5 + 4 x M25 x 1.5
BXM53-6/□/K/□		6			1+6	Incoming 3 x SAK35EN+1N+1PE Outgoing 6 x SAK4EN+6N+6PE	1 x M40 x 1.5 + 6 x M25 x 1.5
BXM53-8/□/K/□		8			1+8	Incoming 3 x SAK35EN+1N+1PE Outgoing 8 x SAK4EN+8N+8PE	1 x M40 x 1.5 + 8 x M25 x 1.5
BXM53-10/□/K/□		10			1+10	Incoming 3 x SAK35EN+1N+1PE Outgoing 10 x SAK4EN+10N+10PE	1 x M40 x 1.5 + 10 x M25 x 1.5
BXM53-12/□/K/□		12			1+12	Incoming 3 x SAK35EN+1N+1PE Outgoing 12 x SAK4EN+12N+12PE	1 x M40 x 1.5 + 12 x M25 x 1.5
BXM53-4/□	—	4	MCB 1P/2P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	4	Incoming 3 x SAK35EN+1N+1PE Outgoing 4 x SAK4EN+4N+4PE	1 x M40 x 1.5 + 4 x M25 x 1.5
BXM53-6/□		6			6	Incoming 3 x SAK35EN+1N+1PE Outgoing 6 x SAK4EN+6N+6PE	1 x M40 x 1.5 + 6 x M25 x 1.5
BXM53-8/□		8			8	Incoming 3 x SAK35EN+1N+1PE Outgoing 8 x SAK4EN+8N+8PE	1 x M40 x 1.5 + 8 x M25 x 1.5
BXM53-10/□		10			10	Incoming 3 x SAK35EN+1N+1PE Outgoing 10 x SAK4EN+10N+10PE	1 x M40x 1.5 + 10 x M25 x 1.5
BXM53-12/□		12			12	Incoming 3 x SAK35EN+1N+1PE Outgoing 12 x SAK4EN+12N+12PE	1 x M40 x 1.5 + 12 x M25 x 1.5

Note

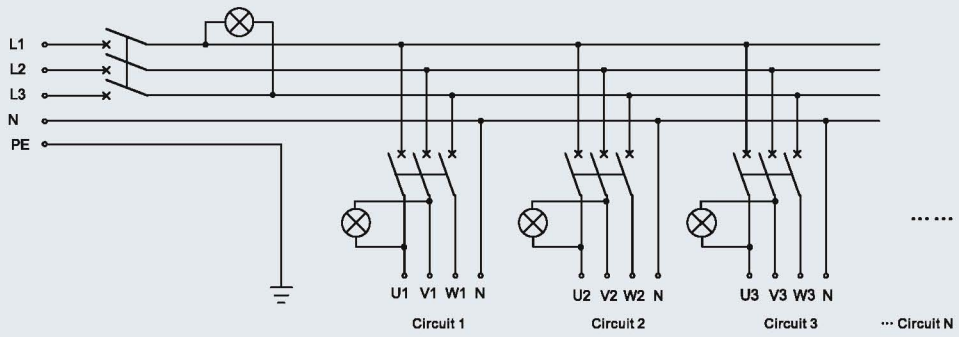
1. Please specify the number and size of cable entries and sides of the enclosure to be fitted.
2. Single line drawing (SLD) shall be provided by user. Photocell, timer, AC contactor, thermal relay or others on request.
3. Please specify mounting type when ordering.
4. Rainproof canopy on request.

Technical data

Explosion-proof power distribution boxes BXD53-□/□/□/□

Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex de IIC T5 Gb
Dust explosion protection	Ⓔx II 2 D Ex tb IIIC T95℃ Db IP65
Certificates	DNV 11 ATEX 02455X; IECEx CQM 11.0042X
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008
General power supply	Rated voltage: max. 690V AC 50/60Hz; Rated current: max.250A
Sub circuit current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Exposed fastener	Stainless steel
Enclosure	
Enclosure material	Copper-free aluminium; powder coated surface
Enclosure colour	Window grey (RAL7040)
Enclosure type	Modular combination (Ex d & Ex e); MCB, MCCB or other components in Ex d compartment, indicators and terminals in Ex e compartment.
Built-in components	
Main switch	MCB (mini circuit breaker) or MCCB (moulded case circuit breaker) Note: electric leakage protection on request
Sub circuit switch	MCB (mini circuit breaker) Note: electric leakage protection on request
Terminal	Weidmuller SAK EN series
Indicator	Red
Degree of protection	IP65
Ambient temperature	-20℃~+53℃
Cable entries	Standard M□ x 1.5 plug (see the Selection Table on P6/12)
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/17~19
Entry direction	Bottom
Mounting	Surface type (standard) Pedestal type (optional)

Electric schematic diagram



BXD51 series explosion-proof power distribution boxes

Distribution Boxes
BXD53 Series Explosion-proof Power Distribution Boxes (Ex de IIC)

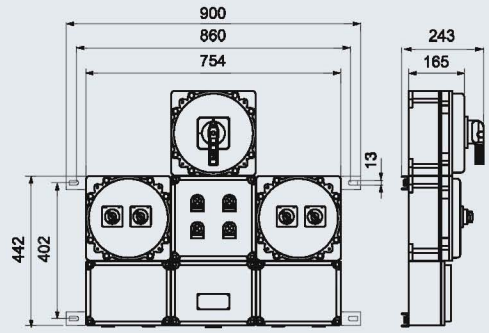
Selection table of BXD53 series explosion-proof power distribution boxes

Type	Description					Terminal	Cable entries
	Main switch	Sub-circuit number	Sub-circuit switch	Sub-circuit current	Indicator number		
BXD53-4/□/K/□	MCB or MCCB Current: max. 250A	4	MCB 3P	1A 2A 4A 6A 10A 16A 20A 25A 32A 40A 50A 63A On request	1+4	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 12 x SAK10EN+4N+4PE	1 x M50 x 1.5 + 4 x M25 x 1.5
BXD53-6/□/K/□		6			1+6	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 18 x SAK10EN+6N+6PE	1 x M50 x 1.5 + 6 x M25 x 1.5
BXD53-8/□/K/□		8			1+8	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 24 x SAK10EN+8N+8PE	1 x M50 x 1.5 + 8 x M25 x 1.5
BXD53-10/□/K/□		10			1+10	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 30 x SAK10EN+10N+10PE	1 x M50 x 1.5 + 10 x M25 x 1.5
BXD53-12/□/K/□		12			1+12	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 36 x SAK10EN+12N+12PE	1 x M50 x 1.5 + 12 x M25 x 1.5
BXD53-4/□	—	4	MCB 3P	1A 2A 4A 6A 10A 16A 20A 25A 32A 40A 50A 63A On request	4	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 12 x SAK10EN+4N+4PE	1 x M50 x 1.5 + 4 x M25 x 1.5
BXD53-6/□		6			6	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 18 x SAK10EN+6N+6PE	1 x M50 x 1.5 + 6 x M25 x 1.5
BXD53-8/□		8			8	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 24 x SAK10EN+8N+8PE	1 x M50 x 1.5 + 8 x M25 x 1.5
BXD53-10/□		10			10	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 30 x SAK10EN+10N+10PE	1 x M50 x 1.5 + 10 x M25 x 1.5
BXD53-12/□		12			12	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 36 x SAK10EN+12N+12PE	1 x M50 x 1.5 + 12 x M25 x 1.5

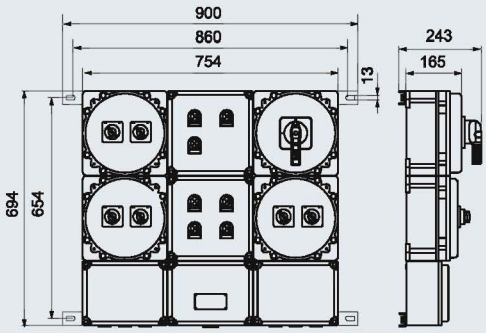
Note

1. Please specify the number and size of cable entries and sides of the enclosure to be fitted;
2. Single line drawing (SLD) shall be provided by user. Photocell, timer, AC contactor, thermal relay or others on request;
3. Please specify mounting type when ordering;
4. Rainproof canopy on request.

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



BXM(D)53-4/☐/K/☐



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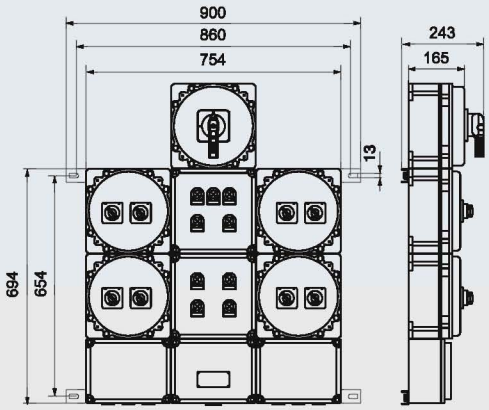

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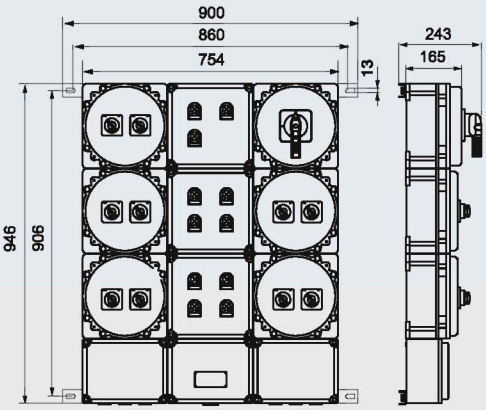
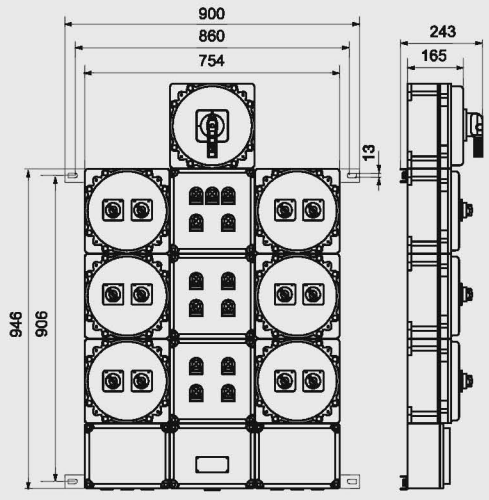
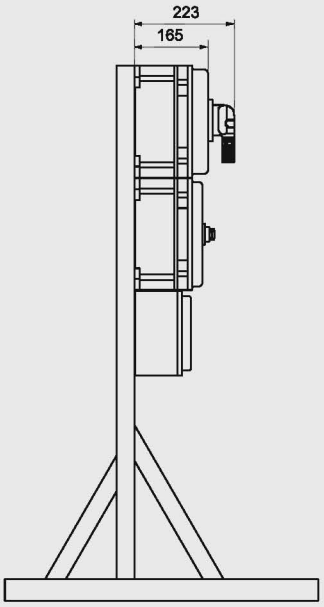


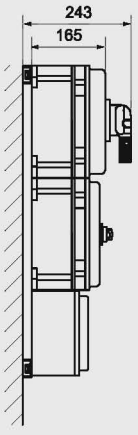
BXM(D)53-10/☐/K/☐



BXM(D)51-12/☐/K/☐



Pedestal type



Surface type

Distribution Boxes and Empty Enclosures

Distribution Boxes

BXM(D)81 Series Explosion-proof Illumination (Power) Distribution Boxes (Ex d IIB)

- 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 1, Groups C, D
- Flameproof enclosure (Ex d IIB)
- Main switch and distribution switch are operated by external handle.
- Internal wiring to the terminal is finished.
- Weidmuller SAK EN series terminals.
- Entries plugged. Cable glands on request (see P7/20~25).
- Special requirements on request.

Catalogue number logic

BX M(D) 81- □/□/□/□

- Main switch current
- K: with main switch (optional)
- Sub-circuit current
- Sub-circuit number
- Design No.
- M: illumination D: power
- Explosion-proof distribution boxes

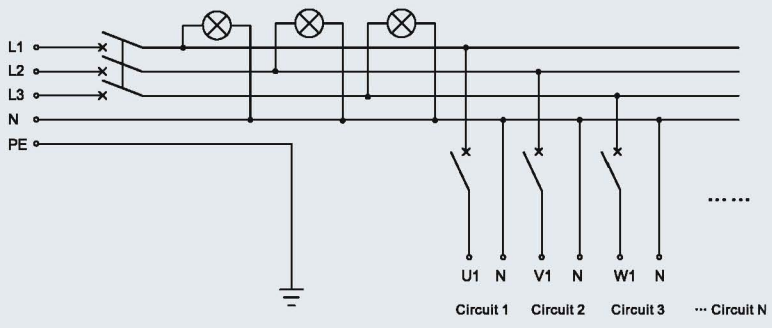
Zones 1&2; 21&22

Technical data

Explosion-proof illumination distribution boxes BXM81-□/□/□/□

Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex d IIB T6 Gb
Dust explosion protection	Ⓔx II 2 D Ex tb IIIC T80℃ Db IP66
Certificates	LCIE 11 ATEX 3064X; IECEx CQM 11.0032; GOST.R (Russia)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009
	IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-31:2008
General power supply	Rated voltage: max. 690V AC 50/60Hz; Rated current: max. 100A
Sub circuit current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A
Exposed fastener	Stainless steel
Enclosure material	Copper-free aluminium; powder coated surface
Enclosure colour	Window grey (RAL7040)
Built-in components	MCB (mini circuit breaker) or MCCB (moulded case circuit breaker)
Main switch	Note: electric leakage protection on request
	MCB (mini circuit breaker)
Sub-circuit switch	Note: electric leakage protection on request
Terminal	Weidmuller SAK EN series
Indicator	Red, green, yellow
Degree of protection	IP66
Ambient temperature	-60℃~+55℃
Cable entries	Standard M□ x 1.5 plug (see the Selection Table on P6/16)
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25
Entry direction	Bottom
Mounting	Surface type (standard)
	Pedestal type (optional)

Electrical schematic diagram



BXM81 series explosion-proof illumination distribution boxes

Distribution Boxes
BXM81 Series Explosion-proof Illumination Distribution Boxes (Ex d IIB)

Selection table of BXM81 series explosion-proof illumination distribution boxes

Type	Description					Terminal	Cable entries
	Main switch	Sub-circuit number	Sub-circuit switch	Sub-circuit current	Indicator number		
BXM81-4/□/K/□	MCB or MCCB Current: max. 100A	4	MCB 1P/2P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	3	Incoming 3 x SAK35EN+1N+1PE Outgoing 4 x SAK4EN+4N+4PE	1 x M40 x 1.5 + 4 x M25 x 1.5
BXM81-6/□/K/□		6			3	Incoming 3 x SAK35EN+1N+1PE Outgoing 6 x SAK4EN+6N+6PE	1 x M40 x 1.5 + 6 x M25 x 1.5
BXM81-8/□/K/□		8			3	Incoming 3 x SAK35EN+1N+1PE Outgoing 8 x SAK4EN+8N+8PE	1 x M40 x 1.5 + 8 x M25 x 1.5
BXM81-10/□/K/□		10			3	Incoming 3 x SAK35EN+1N+1PE Outgoing 10 x SAK4EN+10N+10PE	1 x M40 x 1.5 + 10 x M25 x 1.5
BXM81-12/□/K/□		12			3	Incoming 3 x SAK35EN+1N+1PE Outgoing 12 x SAK4EN+12N+12PE	1 x M40 x 1.5 + 12 x M25 x 1.5
BXM81-4/□	—	4	MCB 1P/2P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	3	Incoming 3 x SAK35EN+1N+1PE Outgoing 4 x SAK4EN+4N+4PE	1 x M40 x 1.5 + 4 x M25 x 1.5
BXM81-6/□		6			3	Incoming 3 x SAK35EN+1N+1PE Outgoing 6 x SAK4EN+6N+6PE	1 x M40 x 1.5 + 6 x M25 x 1.5
BXM81-8/□		8			3	Incoming 3 x SAK35EN+1N+1PE Outgoing 8 x SAK4EN+8N+8PE	1 x M40 x 1.5 + 8 x M25 x 1.5
BXM81-10/□		10			3	Incoming 3 x SAK35EN+1N+1PE Outgoing 10 x SAK4EN+10N+10PE	1 x M40x 1.5 + 10 x M25 x 1.5
BXM81-12/□		12			3	Incoming 3 x SAK35EN+1N+1PE Outgoing 12 x SAK4EN+12N+12PE	1 x M40 x 1.5 + 12 x M25 x 1.5

Note

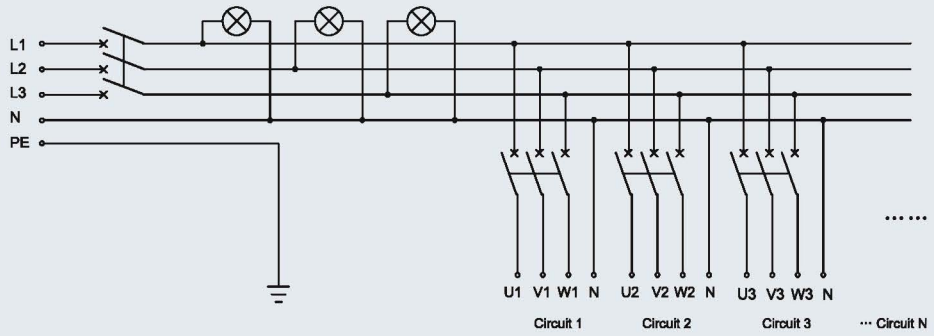
1. Please specify the number and size of cable entries and sides of the enclosure to be fitted;
2. Single line drawing (SLD) shall be provided by user. Photocell, timer, AC contactor, thermal relay or others on request;
3. Please specify mounting type when ordering;
4. Rainproof canopy on request.

Technical data

Explosion-proof power distribution boxes BXD81-□/□/□/□

Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex d IIB T6 Gb
Dust explosion protection	Ⓔx II 2 D Ex tb IIIC T80℃ Db IP66
Certificates	LCIE 11 ATEX 3064X; IECEx CQM 11.0032; GOST.R (Russia)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009
	IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-31:2008
General power supply	Rated voltage: max. 690V AC 50/60Hz; Rated current: max. 250A
Sub circuit current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Exposed fastener	Stainless steel
Enclosure material	Copper-free aluminium; powder coated surface
Enclosure colour	Window grey (RAL7040)
Built-in components	
Main switch	MCB (mini circuit breaker) or MCCB (moulded case circuit breaker)
	Note: electric leakage protection on request
Sub-circuit switch	MCB (mini circuit breaker)
	Note: electric leakage protection on request
Terminal	Weidmuller SAK EN series
Indicator	Red, green, yellow
Degree of protection	IP66
Ambient temperature	-60℃~+55℃
Cable entries	Standard M□ x 1.5 plug (see the Selection Table on P6/18)
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~25
Entry direction	Bottom
Mounting	Surface type (standard)
	Pedestal type (optional)

Electrical schematic diagram



BXD81 Series Explosion-proof power distribution Boxes

Distribution Boxes
BXD81 Series Explosion-proof Power Distribution Boxes (Ex d IIB)

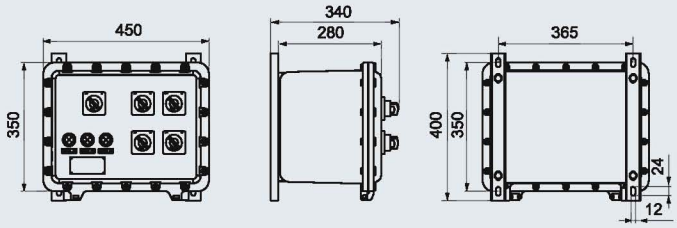
Selection table of BXD81 series explosion-proof power distribution boxes

Type	Description					Terminal	Cable entries
	Main switch	Sub-circuit number	Sub-circuit switch	Sub-circuit current	Indicator number		
BXD81-4/☐/K/☐	MCB or MCCB Current: max. 250A	4	MCB 3P	1A 2A 4A 6A 10A 16A 20A 25A 32A 40A 50A 63A On request	3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 12 x SAK10EN+4N+4PE	1 x M50 x 1.5 + 4 x M25 x 1.5
BXD81-6/☐/K/☐		6			3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 18 x SAK10EN+6N+6PE	1 x M50 x 1.5 + 6 x M25 x 1.5
BXD81-8/☐/K/☐		8			3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 24 x SAK10EN+8N+8PE	1 x M50 x 1.5 + 8 x M25 x 1.5
BXD81-10/☐/K/☐		10			3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 30 x SAK10EN+10N+10PE	1 x M50 x 1.5 + 10 x M25 x 1.5
BXD81-12/☐/K/☐		12			3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 36 x SAK10EN+12N+12PE	1 x M50 x 1.5 + 12 x M25 x 1.5
BXD81-4/☐	—	4	MCB 3P	1A 2A 4A 6A 10A 16A 20A 25A 32A 40A 50A 63A On request	3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 12 x SAK10EN+4N+4PE	1 x M50 x 1.5 + 4 x M25 x 1.5
BXD81-6/☐		6			3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 18 x SAK10EN+6N+6PE	1 x M50 x 1.5 + 6 x M25 x 1.5
BXD81-8/☐		8			3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 24 x SAK10EN+8N+8PE	1 x M50 x 1.5 + 8 x M25 x 1.5
BXD81-10/☐		10			3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 30 x SAK10EN+10N+10PE	1 x M50 x 1.5 + 10 x M25 x 1.5
BXD81-12/☐		12			3	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 36 x SAK10EN+12N+12PE	1 x M50 x 1.5 + 12 x M25 x 1.5

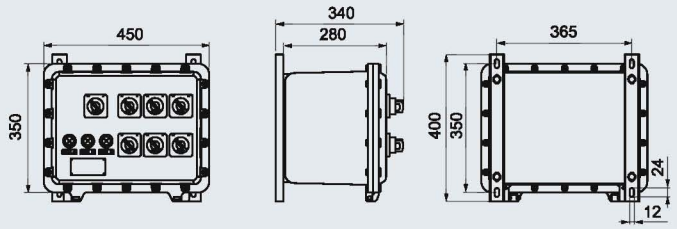
Note

1. Please specify the number and size of cable entries and sides of the enclosure to be fitted;
2. Single line drawing (SLD) shall be provided by user. Photocell, timer, AC contactor, thermal relay or others on request;
3. Please specify mounting type when ordering;
4. Rainproof canopy on request.

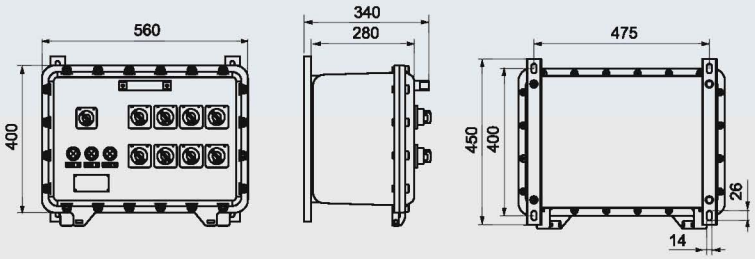
Dimension drawings (all dimensions in mm) - subject to alteration



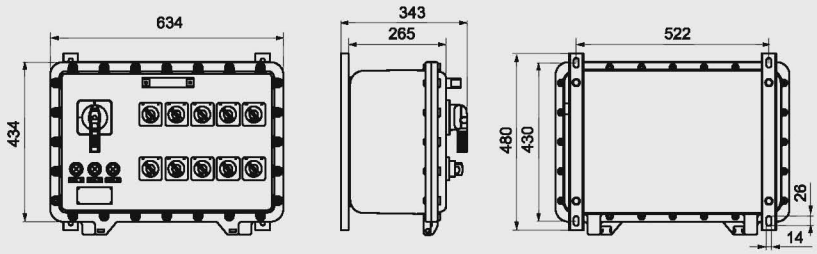
BXM81-4/☐/K/☐



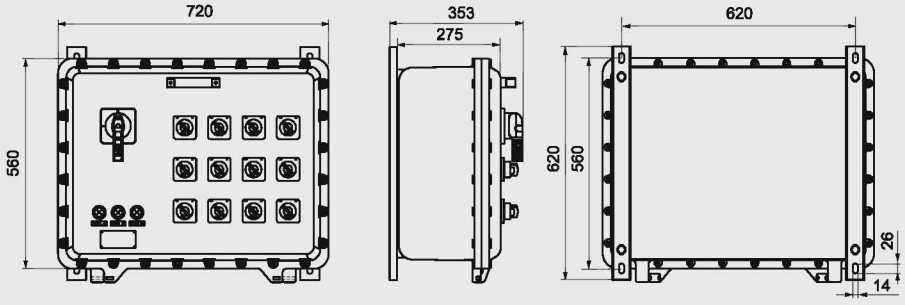
BXM81-6/☐/K/☐



BXM81-8/☐/K/☐

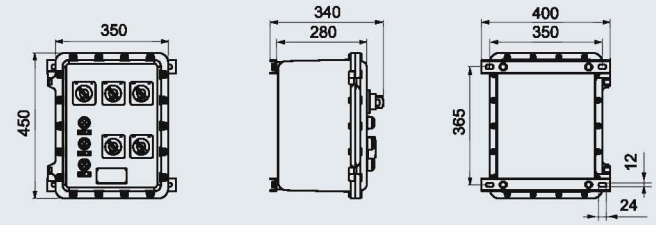


BXM81-10/☐/K/☐

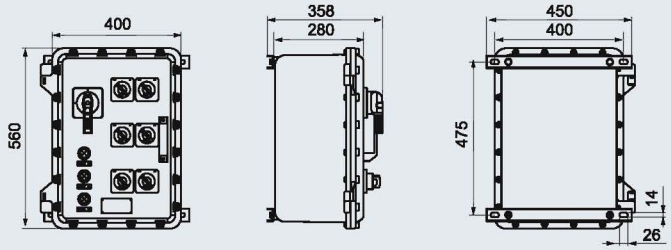


BXM81-12/☐/K/☐

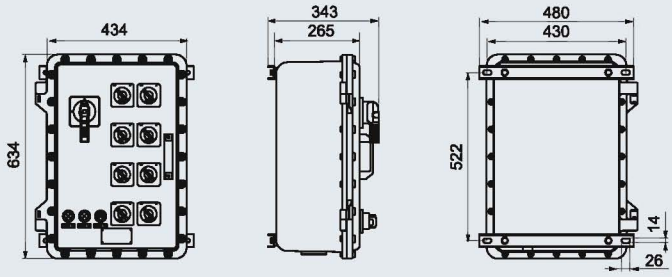
Dimension drawings (all dimensions in mm) - subject to alteration



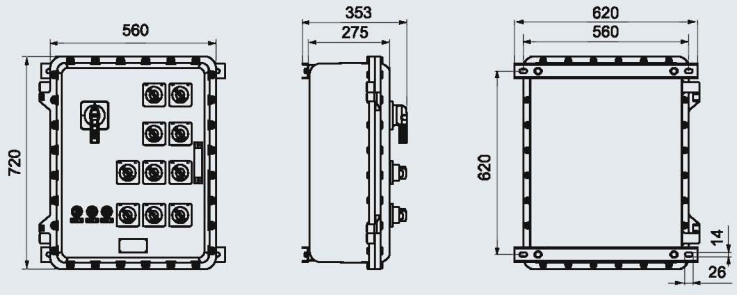
BXD81-4/□/K/□



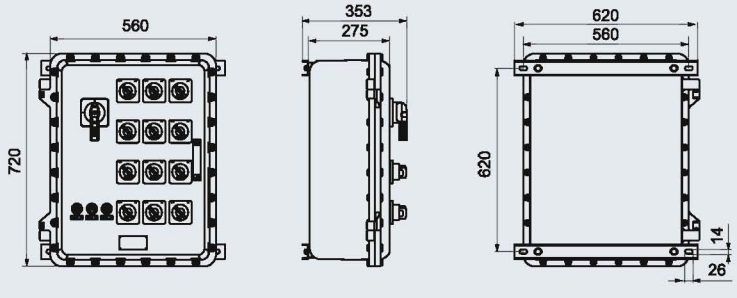
BXD81-6/□/K/□



BXD81-8/□/K/□

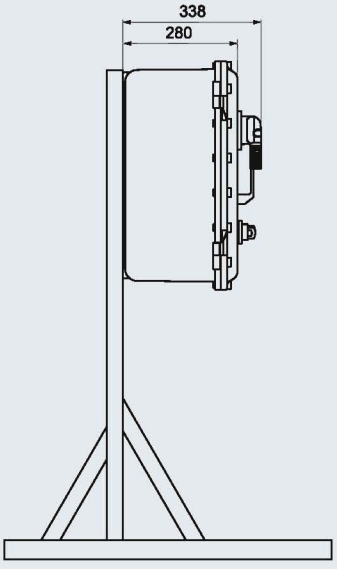


BXD81-10/□/K/□

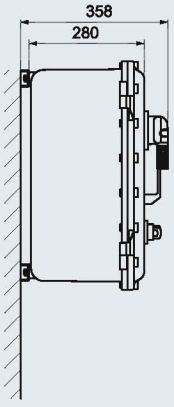


BXD81-12/□/K/□

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



Pedestal type



Surface type

Distribution Boxes and Empty Enclosures

Distribution Boxes

BXM(D)8050 Series Explosion-proof Illumination (Power) Distribution Boxes (Ex de IIC)

- 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
- Enclosure for modular combination (Ex e).
- Main switch and distribution switch are operated with external handle.
- Internal wiring to the terminal is finished.
- Weidmuller SAK EN series terminals.
- Entries plugged. Cable glands on request (see P7/16).
- Special requirements on request.

Catalogue number logic

BX M(D) 8050 - □/□/□/□

- Main switch current
- K: with main switch (optional)
- Sub-circuit current
- Sub-circuit number
- Design No.
- M: illumination D: power
- Explosion-proof distribution boxes

Note

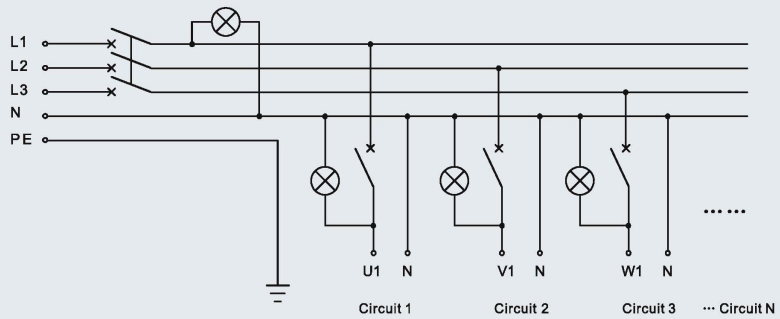
1. Please refer to the Selection Table on P6/27.
2. Please select internal components as below:
   - BL8060 Series explosion-proof circuit breaker modules on P6/28
   - BJL8060 Series explosion-proof AC contactor modules on P6/31
   - BRJ8060 Series explosion-proof thermal relay modules on P6/33
   - BSJ8060 Series explosion-proof time relay modules on P6/35
   - BZJ8060 Series explosion-proof middle relay modules on P6/37
   - BRT8060 Series explosion-proof fuse modules on P6/39
   - BDB8060 Series explosion-proof motor protection switch modules on P6/40
   - BLB8060 Series explosion-proof surge protector modules on P6/42
   - BDW8060 Series explosion-proof potentiometer modules on P6/44

Technical data

Explosion-proof illumination distribution boxes BXM8050-□/□/□/□

Explosion protection	
Gas explosion protection	Ex II 2 G Ex de IIC T6 Gb
Dust explosion protection	Ex II 2 D Ex tb IIIC T80℃ Db IP66
Certificates	DNV 13 ATEX ____; IECEx; PCEC(China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009
	IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008
General power supply	Rated voltage: Max. 690V AC 50/60Hz; Rated current: max.100A
Sub circuit current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A
Exposed fastener	Stainless steel
Enclosure	
Enclosure material	GRP (glass fibre-reinforced polyester resin)
Enclosure colour	Black
Enclosure type	Ex e
Built-in components	
Main switch	BL8060 Please see P6/28
	Note: electric leakage protection on request
Sub circuit switch	BL8060 Please see P6/28
	Note: electric leakage protection on request
Terminal	Weidmuller SAK EN series
Indicator	Red
Degree of protection	IP66
Ambient temperature	-20℃~+55℃
Cable entries	Standard M□ x 1.5 plug (see the Selection Table on P6/24)
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/16
Entry direction	Bottom
Mounting	Surface type (standard)

Electrical schematic diagram



BXM8050 series explosion-proof illumination distribution boxes

Distribution Boxes
BXM8050 Series Explosion-proof Illumination Distribution Boxes (Ex de IIC)

Selection table of BXM8050 series explosion-proof illumination distribution boxes

Type	Description					Terminal	Cable entries
	Main switch	Sub-circuit number	Sub-circuit switch	Sub-circuit current	Indicator number		
BXM8050-4/□/K/□	BL8060 Current max. 100A	4	BL8060 1P/2P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	1+4	Incoming 3 x SAK35EN+1N+1PE Outgoing 4 x SAK4EN+4N+4PE	1 x M40 x 1.5 + 4 x M25 x 1.5
BXM8050-6/□/K/□		6			1+6	Incoming 3 x SAK35EN+1N+1PE Outgoing 6 x SAK4EN+6N+6PE	1 x M40 x 1.5 + 6 x M25 x 1.5
BXM8050-8/□/K/□		8			1+8	Incoming 3 x SAK35EN+1N+1PE Outgoing 8 x SAK4EN+8N+8PE	1 x M40 x 1.5 + 8 x M25 x 1.5
BXM8050-10/□/K/□		10			1+10	Incoming 3 x SAK35EN+1N+1PE Outgoing 10 x SAK4EN+10N+10PE	1 x M40 x 1.5 + 10 x M25 x 1.5
BXM8050-12/□/K/□		12			1+12	Incoming 3 x SAK35EN+1N+1PE Outgoing 12 x SAK4EN+12N+12PE	1 x M40 x 1.5 + 12 x M25 x 1.5
BXM8050-4/□	—	4	BL8060 1P/2P	1A 2A 4A 6A 10A 16A 20A 25A 32A On request	4	Incoming 3 x SAK35EN+1N+1PE Outgoing 4 x SAK4EN+4N+4PE	1 x M40 x 1.5 + 4 x M25 x 1.5
BXM8050-6/□		6			6	Incoming 3 x SAK35EN+1N+1PE Outgoing 6 x SAK4EN+6N+6PE	1 x M40 x 1.5 + 6 x M25 x 1.5
BXM8050-8/□		8			8	Incoming 3 x SAK35EN+1N+1PE Outgoing 8 x SAK4EN+8N+8PE	1 x M40 x 1.5 + 8 x M25 x 1.5
BXM8050-10/□		10			10	Incoming 3 x SAK35EN+1N+1PE Outgoing 10 x SAK4EN+10N+10PE	1 x M40x 1.5 + 10 x M25 x 1.5
BXM8050-12/□		12			12	Incoming 3 x SAK35EN+1N+1PE Outgoing 12 x SAK4EN+12N+12PE	1 x M40 x 1.5 + 12 x M25 x 1.5

Note

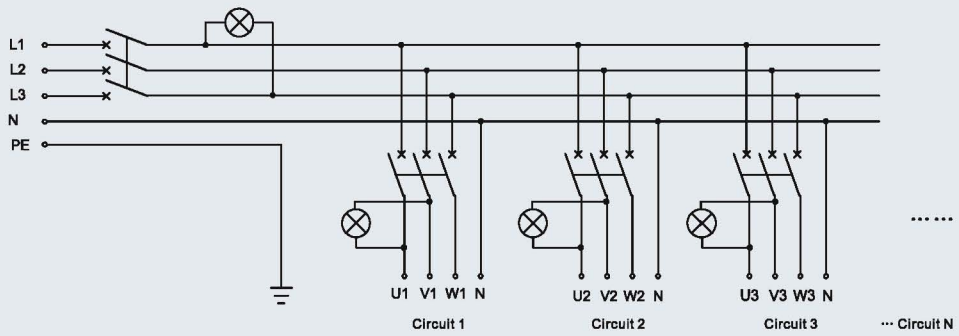
1. Please specify the number and size of cable entries and sides of the enclosure to be fitted;
2. Single line drawing (SLD) shall be provided by user. Photocell, timer, AC contactor, thermal relay or others on request;
3. Please specify mounting type when ordering;
4. Rainproof canopy on request.

Technical data

Explosion-proof power distribution boxes BXD8050-□/□/□/□

Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex de IIC T6 Gb
Dust explosion protection	Ⓔx II 2 D Ex tb IIIC T80℃ Db IP66
Certificates	DNV 13 ATEX ____; IECEx; PCEC(China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007, EN 60079-31:2009
	IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006, IEC 60079-31:2008
General power supply	Rated voltage: Max.690V AC 50/60Hz; Rated current: max.250A
Sub circuit current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Exposed fastener	Stainless steel
Enclosure	
Enclosure material	GRP (glass fibre-reinforced polyester resin)
Enclosure colour	Black
Enclosure type	Ex e
Built-in components	
Main switch	BL8060 Please see P6/28
	Note: electric leakage protection on request
Sub circuit switch	BL8060 Please see P6/28
	Note: electric leakage protection on request
Terminal	Weidmuller SAK EN series
Indicator	Red
Degree of protection	IP66
Ambient temperature	-20℃~+55℃
Cable entries	Standard M□ x 1.5 plug (see the Selection Table on P6/26)
Cable gland (optional)	DQM-I (Ex e) is recommended. Please see P7/16
Entry direction	Bottom
Mounting	Surface type (standard)

Electric schematic diagram



BXD8050 series explosion-proof power distribution boxes

Distribution Boxes
BXD8050 Series Explosion-proof Power Distribution Boxes (Ex de IIC)

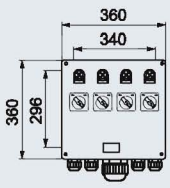
Selection table of BXD8050 series explosion-proof power distribution boxes

Type	Description					Terminal	Cable entries
	Main switch	Sub-circuit number	Sub-circuit switch	Sub-circuit current	Indicator number		
BXD8050-4/□/K/□	BL8060 Current: max. 250A	4	BL8060 3P	1A 2A 4A 6A 10A 16A 20A 25A 32A 40A 50A 63A On request	1+4	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 12 x SAK10EN+4N+4PE	1 x M50 x 1.5 + 4 x M25 x 1.5
BXD8050-6/□/K/□		6			1+6	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 18 x SAK10EN+6N+6PE	1 x M50 x 1.5 + 6 x M25 x 1.5
BXD8050-8/□/K/□		8			1+8	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 24 x SAK10EN+8N+8PE	1 x M50 x 1.5 + 8 x M25 x 1.5
BXD8050-10/□/K/□		10			1+10	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 30 x SAK10EN+10N+10PE	1 x M50 x 1.5 + 10 x M25 x 1.5
BXD8050-12/□/K/□		12			1+12	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 36 x SAK10EN+12N+12PE	1 x M50 x 1.5 + 12 x M25 x 1.5
BXD8050-4/□	—	4	BL8060 3P	1A 2A 4A 6A 10A 16A 20A 25A 32A 40A 50A 63A On request	4	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 12 x SAK10EN+4N+4PE	1 x M50 x 1.5 + 4 x M25 x 1.5
BXD8050-6/□		6			6	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 18 x SAK10EN+6N+6PE	1 x M50 x 1.5 + 6 x M25 x 1.5
BXD8050-8/□		8			8	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 24 x SAK10EN+8N+8PE	1 x M50 x 1.5 + 8 x M25 x 1.5
BXD8050-10/□		10			10	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 30 x SAK10EN+10N+10PE	1 x M50 x 1.5 + 10 x M25 x 1.5
BXD8050-12/□		12			12	Incoming 3 x SAK70/35EN+1N+1PE Outgoing 36 x SAK10EN+12N+12PE	1 x M50 x 1.5 + 12 x M25 x 1.5

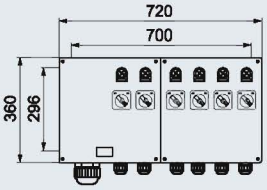
Note

1. Please specify the number and size of cable entries and sides of the enclosure to be fitted;
2. Single line drawing (SLD) shall be provided by user. Photocell, timer, AC contactor, thermal relay or others on request;
3. Please specify mounting type when ordering;
4. Rainproof canopy on request.

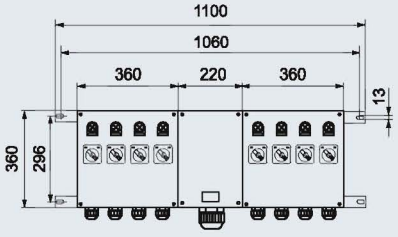
Dimension drawings (all dimensions in mm) - subject to alteration



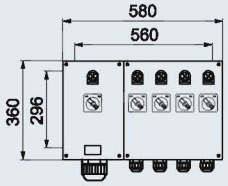
BXM(D)8050-4



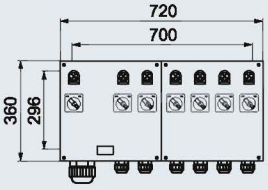
BXM(D)8050-6



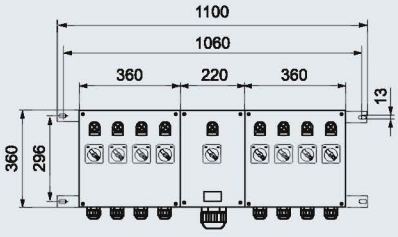
BXM(D)8050-8



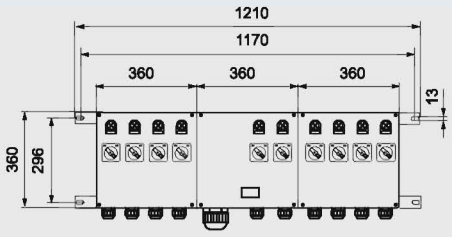
BXM(D)8050-4/K



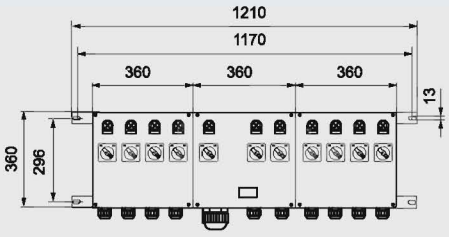
BXM(D)8050-6/K



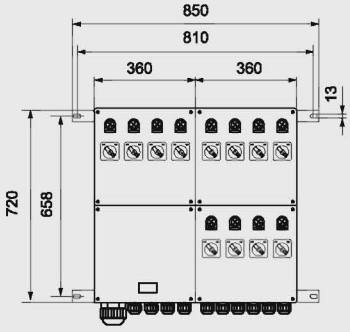
BXM(D)8050-8/K



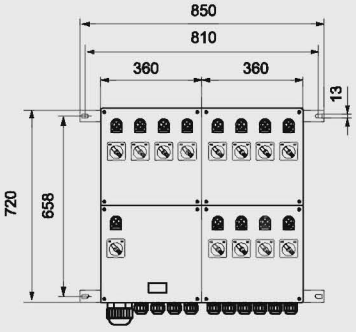
BXM(D)8050-10



BXM(D)8050-10/K



BXM(D)8050-12



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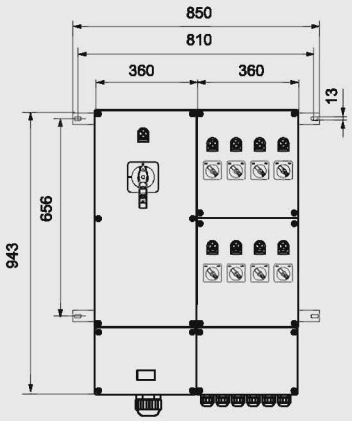
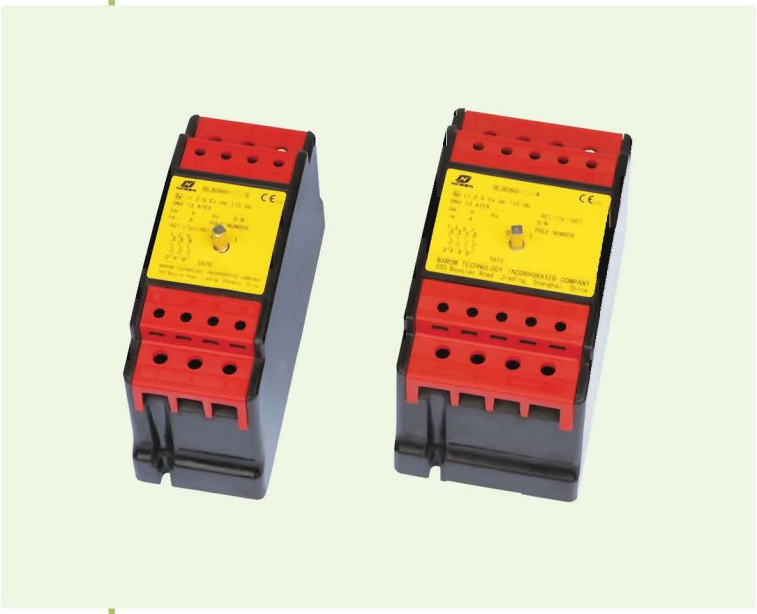


BXM(D)8050-8/K
(Main swich 125A-250A)

Distribution Boxes and Empty Enclosures



Components for Distribution Boxes
BL8060 Series Explosion-proof Circuit Breaker Modules

- 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
- Product of flame-proof structure; the cavity is of engineering plastic embedded with high strength metal frame structure; with strong corrosion-resistance capacity and reliable performance.
- Built-in Schneider iC65 series MCB, special operation mechanism internally designed, reliable overall operation.

Catalogue number logic

BL 8060 - □ / □ / □ / □ / □ / □

- L: with leakage (optional)
- F: with auxiliary(1NO +1NC)
- C: lighting protection
- D: dynamic protection
- Breaking capacity
  - N: 6kA
  - H: 10kA
  - G: 15kA
- Pole number
- Rated current
- Design No.
- Explosion-proof circuit breaker modules

Zones 1&2; 21&22

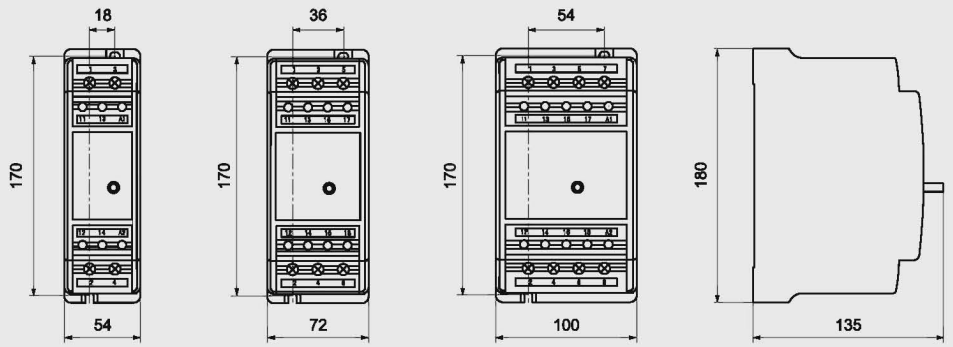
Technical data

Explosion-proof circuit breaker modules BL8060 - □ / □/ □/ □/ □

Explosion protection	Ⓔx II 2 G Ex de IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006
Enclosure material	GRP (glass fibre-reinforced polyester resin, embedded with metal frame)
Rated voltage	Max.440V AC
Rated current	1A, 2A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated residual operating current	30mA, 300mA, 300mAⓈ Ⓢ:Under-voltage tripping(instant)
Rated residual current characteristics	AC, A
Mechanical life	20000 times
Auxiliary contact	1NO+1NC(Indicating contact in OF state)
Pole number	1P, 2P, 3P, 4P, 1PL, 2PL, 3PL, 4PL
Ambient temperature	-20℃~+60℃
Breaking capacity	

Ph/Ph(2P,3P,4P)		12~133V	220~240V	380~415V	440V	Use breaking
Ph/N(1P,1P+N)		12~60V	100~133V	220~240V	-	capacity
Rated urrent	1~4A	50kA	50kA	50kA	25kA	100%Icu
	6~63A	36kA	20kA	10kA	6kA	75%Icu

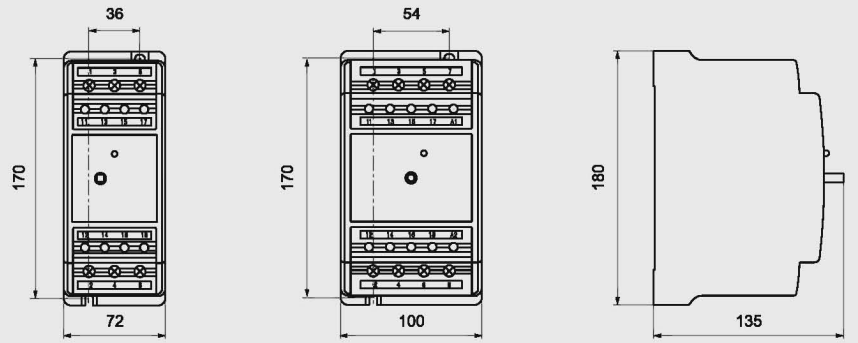
Dimension drawings (all dimensions in mm) - subject to alteration



BL8060-□/1/□/□/□
BL8060-□/1/□/□/F
BL8060-□/2/□/□/□

BL8060-□/2/□/□/F
BL8060-□/3/□/□/□

BL8060-□/3/□/□/F
BL8060-□/4/□/□/□
BL8060-□/4/□/□/F

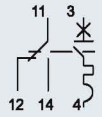
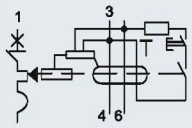
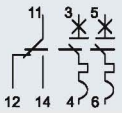
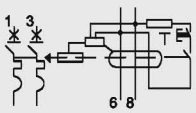
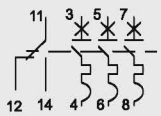
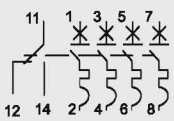


BL8060-□/1/□/□/L

BL8060-□/2/□/□/L

Components for Distribution Boxes
BL8060 Series Explosion-proof Circuit Breaker Modules

Selection table

Type	Rated voltage (V)	Rated current (A)	Rated residual operating current (mA)	Auxiliary contact (A)	Schematic diagram
BL8060-□/1/□/□/□/	440	1, 2, 4, 6, 10 16, 20, 25, 32 40, 50, 63	/	/	
BL8060-□/1/□/□/F	440		/	Indicating contact in OF state	
BL8060-□/1/□/□/L	440	40, 63	30	/	
BL8060-□/2/□/□/□/	440	1, 2, 4, 6, 10 16, 20, 25, 32 40, 50, 63	/	/	
BL8060-□/2/□/□/F	440		/	Indicating contact in OF state	
BL8060-□/2/□/□/L	440	40	30	/	
			300	/	
			300 S	/	
		63	30	/	
			300	/	
			300 S	/	
BL8060-□/3/□/□/□	440	1, 2, 4, 6, 10 16, 20, 25, 32 40, 50, 63	/	/	
BL8060-□/3/□/□/F	440		/	Indicating contact in OF state	
BL8060-□/4/□/□/□	440		/	/	
BL8060-□/4/□/□/F	440		/	Indicating contact in OF state	

Components for Distribution Boxes

BJL8060 Series Explosion-proof AC Contactor Modules

- 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
- Product of flame-proof structure; the cavity is of engineering plastic embedded with high strength metal frame structure; with strong corrosion-resistance capacity and reliable performance;
- Built-in Schneider AC contactor with 3 pairs of main contact and as many as 4 pairs of auxiliary contact, easy for wiring.

Catalogue number logic

BJL 8060 - □ / □ / □

- F: with auxiliary(1NO+1NC, optional)
- Coil voltage
- Rated current
- Design No.
- Explosion-proof AC contactor modules

Technical data

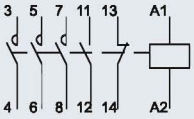
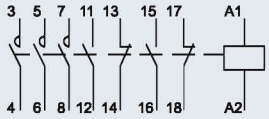
Explosion-proof AC contactor modules BJL8060 - □ / □ / □

Explosion protection	Ⓔx II 2 G Ex de IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006
Enclosure material	GRP (glass fibre-reinforced polyester resin, embedded with metal frame)
Rated insulation voltage	Max.690V AC
Rated voltage	Max.690V AC
Rated impulse withstand voltage	6kV
Coil voltage	24V, 36V, 110V, 220V, 380V, 415V
Rated current	9A, 12A, 18A, 25A, 32A, 38A
Usage type	AC-3
Auxiliary contact	Max.690V AC
Additional auxiliary contact	1NO+1NC
Ambient temperature	-20℃~+60℃

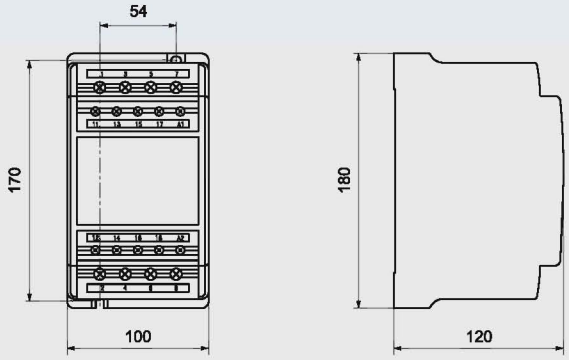
Zones 1&2; 21&22

Components for Distribution Boxes
BJL8060 Series Explosion-proof AC Contactor Modules

Selection table

Type	Rated current (A)	Rated voltage (V)	Coil voltage (V)	Maximum power to control 3-phase motors (kW)		Schematic diagram
				220V	380V	
BJL8060 - 9□/□	9	690	24, 36 110, 220 380, 415	2.2	4	
BJL8060 - 12□/□	12			3	5.5	
BJL8060 - 18□/□	18			4	7.5	
BJL8060 - 25□/□	25			2.5	11	
BJL8060 - 32□/□	32			7.5	15	
BJL8060 - 38□/□	38			9	18.5	
BJL8060 - 9/□/F	9			2.2	4	
BJL8060 - 12/□/F	12			3	5.5	
BJL8060 - 18/□/F	18			4	7.5	
BJL8060 - 25/□/F	25			2.5	11	
BJL8060 - 32/□/F	32			7.5	15	
BJL8060 - 38/□/F	38			9	18.5	

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

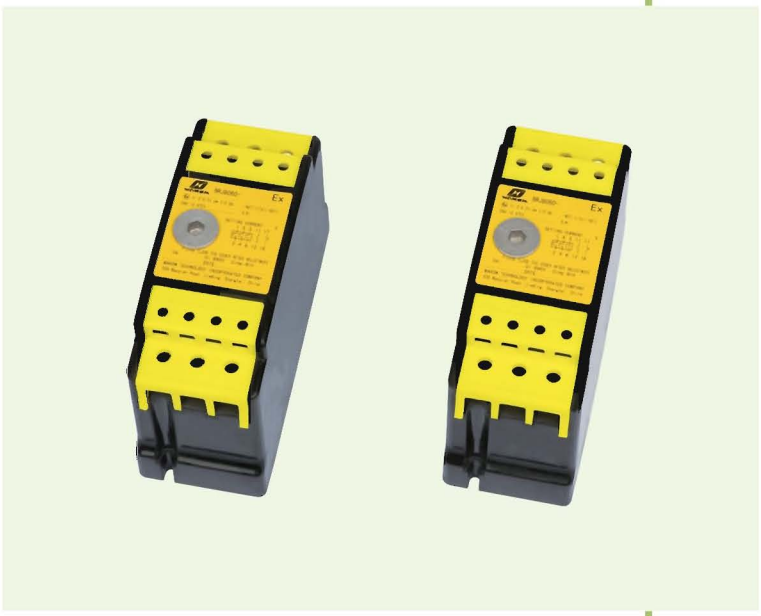


Distribution Boxes and Empty Enclosures

Components for Distribution Boxes

BRJ8060 Series Explosion-proof Thermal Relay Modules

- 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
- Product of flame-proof structure; the cavity is of engineering plastic embedded with high strength metal frame structure; with strong corrosion-resistance capacity and reliable performance.
- Built-in Schneider thermal relay.



Catalogue number logic

BRJ 8060 - □ / □

- Setting current
- Rated current
- Design No.
- Explosion-proof thermal relay modules

Technical data

Explosion-proof thermal relay modules BRJ8060 - □ / □

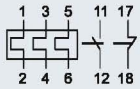
Explosion protection	Ⓔx II 2 G Ex de IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006
Enclosure material	GRP (glass fibre-reinforced polyester resin, embedded with metal frame)
Rated voltage	Max.690V AC
Rated current	Max.38A
Rated impulse withstand voltage	6kV
Ambient temperature	-20℃~+60℃

Zones 1&2; 21&22

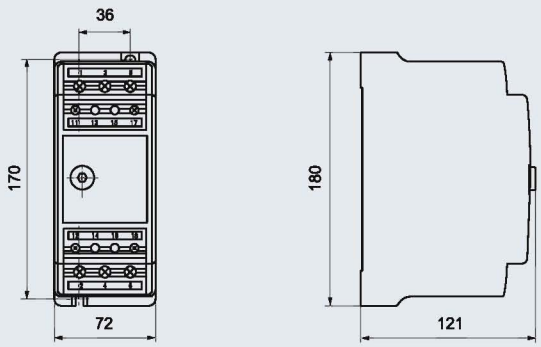
Components for Distribution Boxes

BRJ8060 Series Explosion-proof Thermal Relay Modules

Selection table

Type	Rated current (A)	Applicable setting current (A)	BJL8060-contactor optional	Schematic diagram
BRJ8060 - 0.16/☐	0.16	0.10~0.16	9	
BRJ8060 - 0.25/☐	0.25	0.16~0.25	9	
BRJ8060 - 0.40/☐	0.40	0.25~0.40	9	
BRJ8060 - 0.63/☐	0.63	0.40~0.63	9	
BRJ8060 - 1/☐	1	0.63~1	9	
BRJ8060 - 1.6/☐	1.6	1~1.6	9	
BRJ8060 - 2.5/☐	2.5	1.6~2.5	9	
BRJ8060 - 4/☐	4	2.5~4	9	
BRJ8060 - 6/☐	6	4~6	9	
BRJ8060 - 8/☐	8	5.5~8	9	
BRJ8060 - 10/☐	10	7~10	12	
BRJ8060 - 13/☐	13	9~13	18	
BRJ8060 - 18/☐	18	12~18	25	
BRJ8060 - 24/☐	24	16~24	25	
BRJ8060 - 32/☐	32	23~32	32	
BRJ8060 - 38/☐	38	30~38	38	

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



Components for Distribution Boxes

BSJ8060 Series Explosion-proof Time Relay Modules

- 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
- Product of flame-proof structure; the cavity is of engineering plastic embedded with high strength metal frame structure; with strong corrosion-resistance capacity and reliable performance.
- Built-in Schneider time relay.

Catalogue number logic

BSJ 8060 - □ / □

- Delay range
- Coil voltage
- Design No.
- Explosion-proof time relay modules

Technical data

Explosion-proof time relay modules BSJ8060 - □ / □

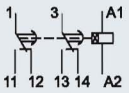
Explosion protection	Ⓔx II 2 G Ex de IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006
Enclosure material	GRP (glass fibre-reinforced polyester resin, embedded with metal frame)
Rated voltage of contact	230V AC
Coil voltage	24V AC, 110V AC, 220V AC
Rated current of contact	5A
Operating mode	Delayed act after power-on
Delay range	0.1~1s, 1~10s, 0.1~1min, 1~10min, 0.1~1h, 1~10h, 10~100h
Usage type	AC-12
Additional auxiliary contact	2NO+2NC
Ambient temperature	-20℃~+60℃

Zones 1&2; 21&22

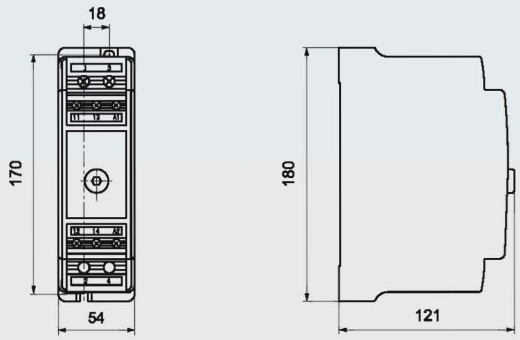
Components for Distribution Boxes

BSJ8060 Series Explosion-proof Time Relay Modules

Selection table

Type	Coil voltage (V)	Rated voltage of contact (V)	Rated current of contact (A)	Delay range	Operating mode	Schematic diagram
BSJ8060 - 24/□	24	230	5	0.1~1s 1~10s 0.1~1min 1~10min 0.1~1h 1~10h 10~100h	delayed act after power-on	
BSJ8060 - 110/□	110					
BSJ8060 - 220/□	220					

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



Components for Distribution Boxes

BZJ8060 Series Explosion-proof Middle Relay Modules

- 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
- Product of flame-proof structure; the cavity is of engineering plastic embedded with high strength metal frame structure; with strong corrosion-resistance capacity and reliable performance.
- Built-in Omron middle relay.

Catalogue number logic

BZJ 8060 - □

- Coil voltage
- Design No.
- Explosion-proof middle relay modules

Technical data

Explosion-proof middle relay modules BZJ8060 - □ / □

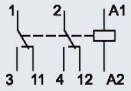
Explosion protection	Ⓔx II 2 G Ex de IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006
Enclosure material	GRP (glass fibre-reinforced polyester resin, embedded with metal frame)
Rated voltage	250V AC
Coil voltage	6V, 12V, 24V, 50V, 100/110V, 110/120V, 200/220V, 220/240V AC
Rated current	5A
Contact	2NO+2NC
Operation frequency	1800 times/h
Mechanical life	4,000,000 times
Electrical life	4,000,000 times
Ambient temperature	-20℃~+60℃

Zones 1&2; 21&22

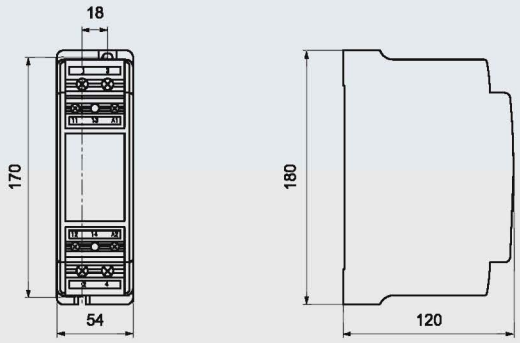
Components for Distribution Boxes

BZJ8060 Series Explosion-proof Middle Relay Modules

Selection table

Type	Rated voltage of contact (V)	Rated current (A)	Coil voltage (V)	Number of contact	Schematic diagram
BZJ8060 - 6	250	5	6	2NO+2NC	
BZJ8060 - 12			12		
BZJ8060 - 24			24		
BZJ8060 - 50			50		
BZJ8060 - 110			110		
BZJ8060 - 120			120		
BZJ8060 - 220			220		
BZJ8060 - 240			240		

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



Distribution Boxes and Empty Enclosures

Components for Distribution Boxes

BRT8060 Series Explosion-proof Fuse Modules

- 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

Catalogue number logic

BRT 8060 - □

- Rated current
- Design No.
- Explosion-proof fuse modules

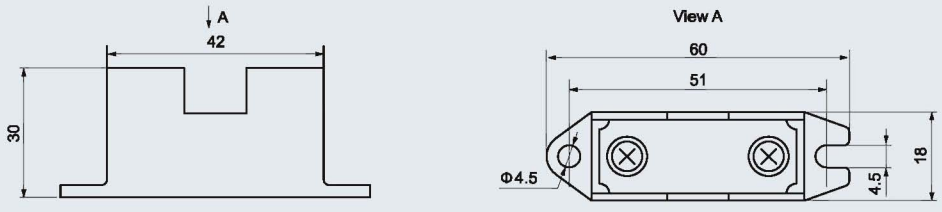
Technical data

Explosion-proof fuse modules	BRT8060 - □
Explosion protection	Ex II 2 G Ex e mb IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-7:2007, EN 60079-18:2009 IEC 60079-0:2011, IEC 60079-7:2006, IEC 60079-18:2009
Enclosure material	PC
Rated voltage	230V AC, 415V AC, 500V AC
Rated current	1A, 2A, 4A, 6A, 8A, 10A
Ambient temperature	-20℃~+60℃

Selection table

Type	Rated voltage (V)	Rated current (A)
BRT8060 - 1	230 415 500	1
BRT8060 - 2		2
BRT8060 - 4		4
BRT8060 - 6		6
BRT8060 - 8		8
BRT8060 - 10		10

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



Zones 1&2; 21&22

Distribution Boxes and Empty Enclosures

Components for Distribution Boxes

BDB8060 Series Explosion-proof Motor Protection Switch Modules

- 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
- Product of flame-proof structure; the cavity is of engineering plastic embedded with high strength metal frame structure; with strong corrosion-resistance capacity and reliable performance;
- Built-in MOELLER motor protection switch has functions of current trip and short circuit trip, etc.
- This product is suitable to be used together with our BJL8060 series explosion-proof AC contactor modules.

Catalogue number logic

BDB 8060 - □ / □ / □

- F: with auxiliary(1NO+1NC, optional)
- Setting current
- Rated current
- Design No.
- Explosion-proof motor protection switch modules

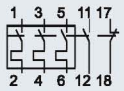
Technical data

Explosion-proof motor protection switch modules BDB8060 - □ / □ / □

Explosion protection	Ⓔx II 2 G Ex de IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006
Enclosure material	GRP (glass fibre-reinforced polyester resin, embedded with metal frame)
Rated voltage	415V AC
Rated current	0.16A, 0.25A, 0.4A, 0.63A, 1A, 1.6A, 2.5A, 4A, 6.3A, 10A, 16A, 20A, 25A
Usage type	AC-3
Type of contact	1NO+1NC
Ambient temperature	-20℃~+60℃

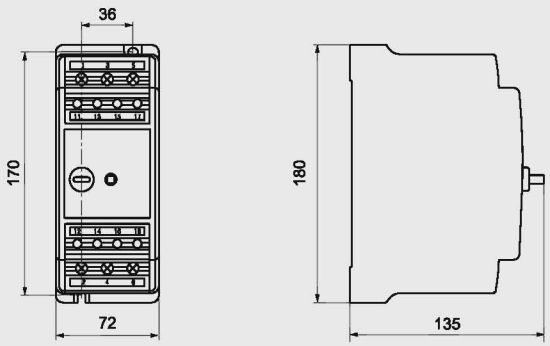
Zones 1&2; 21&22

Selection table

Type	Rated continuous current (A)	Maximum power to control 3-phase motors (kW)	Overload trip setting range (A)	Rated breaking capacity (kA)	Schematic diagram	Auxiliary contact
BDB8060 - 0.16/☐/☐	0.16	-	0.1~0.16	65		1NO+1NC
BDB8060 - 0.25/☐/☐	0.25	0.06	0.16~0.25	65		
BDB8060 - 0.4/☐/☐	0.4	0.09	0.25~0.4	65		
BDB8060 - 0.63/☐/☐	0.63	0.12	0.4~0.63	65		
BDB8060 - 1/☐/☐	1	0.25	0.63~1	65		
BDB8060 - 1.6/☐/☐	1.6	0.55	1~1.6	65		
BDB8060 - 2.5/☐/☐	2.5	0.75	1.6~2.5	65		
BDB8060 - 4/☐/☐	4	1.5	2.5~4	16		
BDB8060 - 6.3/☐/☐	6.3	2.2	4~6.3	16		
BDB8060 - 10/☐/☐	10	4	6.3~10	16		
BDB8060 - 16/☐/☐	16	7.5	10~16	16		
BDB8060 - 20/☐/☐	20	9	16~20	12		
BDB8060 - 25/☐/☐	25	12.5	20~25	12		

Note: please specify the overload trip setting value when ordering.

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



Distribution Boxes and Empty Enclosures

Components for Distribution Boxes

BLB8060 Series Explosion-proof Surge Protector Modules

- 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
- Product of flame-proof structure; the cavity is of engineering plastic embedded with high strength metal frame structure; with strong corrosion-resistance capacity and reliable performance.

Catalogue number logic

BLB 8060 - □ / □ / □

- Pole number
- Maximum discharge current
- Maximum continuous operating voltage
- Design No.
- Explosion-proof surge protector modules

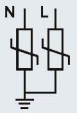
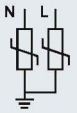
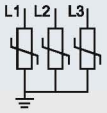
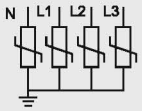
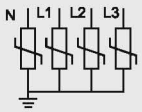
Technical data

Explosion-proof surge protector modules BLB8060 - □ / □/ □

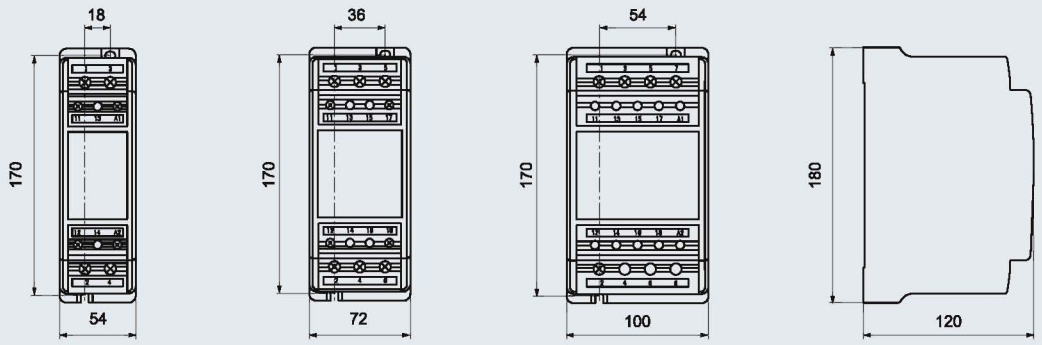
Explosion protection	Ⓔx II 2 G Ex de IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006
Enclosure material	GRP (glass fibre-reinforced polyester resin, embedded with metal frame)
Maximum continuous operating voltage Uc	385V (275V, 320V, 420V, 485V, 550V optoonal)
Maximum discharge current	10kA, 20kA, 40kA, 60kA, 120kA
Nominal discharge current	5kA, 10kA, 20kA, 30kA, 60kA
Operation frequency	50/60Hz
Pole number	1P, 2P, 3P, 4P
Ambient temperature	-20℃~+60℃

Zones 1&2; 21&22

Selection table

Type	Maximum continuous operating voltage Uc (V)	Maximum discharge current (kA)	Nominal discharge current (kA)	Schematic diagram
BLB8060 - □/ □/1	385V (275V, 320V, 420V, 485V, 550V optoonal)	10	5	
		20	10	
		40	20	
		60	30	
		120	60	
BLB8060 - □/ □/1+N		10	5	
		20	10	
		40	20	
		60	30	
BLB8060 - □/ □/2		10	5	
		20	10	
		40	20	
		60	30	
BLB8060 - □/ □/3		10	5	
		20	10	
		40	20	
		60	30	
BLB8060 - □/ □/3+N		10	5	
		20	10	
		40	20	
		60	30	
BLB8060 - □/ □/4		10	5	
		20	10	
		40	20	
		60	30	

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



BLB8060-□/□/1
BLB8060-□/□/2

BLB8060-□/□/3

BLB8060-□/□/4

Distribution Boxes and Empty Enclosures

Components for Distribution Boxes

BDW8060 Series Explosion-proof Potentiometer Modules

- 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
- Product of flame-proof structure; enclosure formed of high strength Polycarbonate injection; with good corrosion-resistance capacity and reliable performance.
- Built-in wire-wound potentiometer.

Catalogue number logic

BDW 8060 - □

- Maximum impedance
- Design No.
- Explosion-proof potentiometer modules

Zones 1&2; 21&22

Technical data

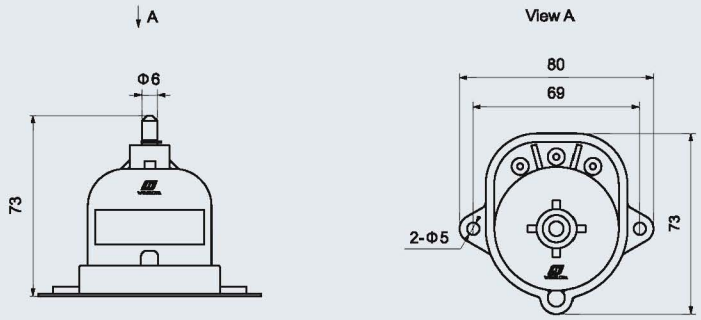
Explosion-proof potentiometer modules BDW8060 - □

Explosion protection	Ⓔx II 2 G Ex de IIC Gb
Certificates	DNV 13 ATEX____; IECEx; PCEC (China)
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-1:2007, IEC 60079-7:2006
Enclosure material	PC
Rated voltage	250V AC
Rated power	3W
Minimum impedance	22Ω
Maximum impedance	47kΩ
Rotation angle	300°
Linearity	±5%~±10%
Deviation of impedance	±5%~±10%
Life of rotation	10,000 circles
Ambient temperature	-20℃~+60℃

Selection table

Type	Rated voltage (V)	Rated power (W)	Minimum impedance (Ω)	Maximum impedance (kΩ)
BDW8060 - □	250	3	22	47

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



Distribution Boxes and Empty Enclosures

Empty Enclosures
BXT Series Explosion-proof Enclosures (Ex d IIB)

- 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 1, Groups C, D
- Flameproof enclosure (Ex d IIB) in aluminium; 13 types (external flange) and 12 types (internal flange).
- Cable entries can be drilled and components can be installed by user on request.
- Safety shall be considered when installing components according to related electrical standards.
- Special requirements on request.

Catalogue number logic

BXT - □ - □

- W: external flange enclosure (internal flange without W)
- Specification code (I, II, IIB·····)
- Explosion-proof enclosures

Zones 1&2; 21&22

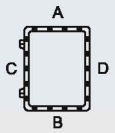
Technical data

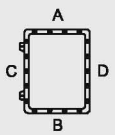
Explosion-proof enclosures BXT-□ -W

Explosion protection	
Gas explosion protection	Ex II 2 G Ex d IIB Gb
Dust explosion protection	Ex II 1 D Ex t IIIB Da IP66
Certificates	LCIE 11 ATEX 3012U; POCC CN.Г Ъ 05.B03637(Russia); IECEx
Conformity to standards	EN 60079-0:2009, EN 60079-1:2007, EN 60079-31:2009 IEC 60079-0:2007, IEC 60079-1:2007, IEC 60079-31:2008
Degree of protection	IP66
Ambient temperature	-60℃~+100℃
Enclosure material	Copper-free aluminium; powder coated surface, window grey (RAL7040)
Exposed fastener	Stainless steel
Mounting feet	Carbon steel
Hinge	Integral hinges

Cable entry table

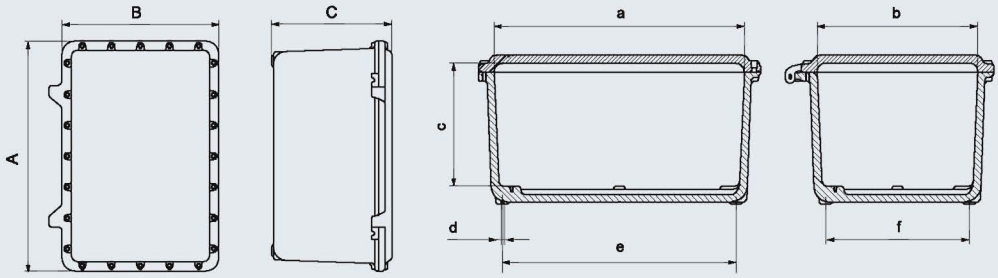
Table of max. number of possible enclosure entries

	I		II		IIB		III		IIIB		IV		IVB	
														
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	5	8	5	10	5	12	10	12	16	20	12	16	22	30
M25 x 1.5	5	7	5	9	5	10	9	11	12	15	11	14	15	20
M32 x 1.5	2	3	2	4	2	6	7	9	9	12	9	12	12	16
M40 x 1.5	2	2	2	3	2	4	3	4	5	6	4	5	6	9
M50 x 1.5	1	2	1	3	1	3	3	3	4	5	3	4	5	7
M63 x 1.5	1	2	1	2	1	3	2	3	2	3	3	3	3	5

	V		VB		VI		VIB		VII		VIIB	
												
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	14	21	24	40	19	33	30	50	28	41	45	65
M25 x 1.5	12	19	18	27	16	28	20	36	25	35	30	44
M32 x 1.5	10	15	14	21	13	22	18	30	21	29	25	36
M40 x 1.5	4	7	8	12	7	13	11	18	11	16	15	21
M50 x 1.5	4	5	5	9	6	11	6	10	10	13	12	12
M63 x 1.5	3	5	4	7	3	5	5	9	4	6	7	10

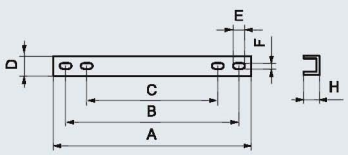
Empty Enclosures
BXT Series Explosion-proof Enclosures (Ex d IIB)

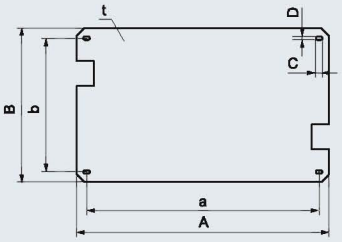
Selection table of BXT-□-W series explosion-proof enclosures (all dimensions in mm)



Enclosure

Type	Dimensions									Weight
	A	a	B	b	C	c	e	f	d	(kg)
BXT-I-W	250	192	200	142	170	120	180	130	M8	6.70
BXT-II-W	300	242	200	142	170	120	230	130	M8	8.00
BXT-IIB-W	350	292	200	142	170	120	280	130	M8	9.50
BXT-III-W	350	292	300	242	200	150	280	230	M10	14.50
BXT-IIIB-W	350	292	300	242	270	220	280	230	M10	17.50
BXT-IV-W	450	378	350	278	210	150	365	265	M10	23.00
BXT-IVB-W	450	378	350	278	280	220	365	265	M10	27.50
BXT-V-W	560	488	400	328	210	150	475	315	M10	34.50
BXT-VB-W	560	488	400	328	280	220	475	315	M10	39.50
BXT-VI-W	634	560	434	360	265	205	522	322	M10	46.00
BXT-VIB-W	634	560	434	360	335	275	522	322	M10	52.00
BXT-VII-W	720	640	560	480	275	205	620	460	M12	74.50
BXT-VIIB-W	720	640	560	480	345	275	620	460	M12	83.00





Mounting feet

Type	Dimensions						
	A	B	C	D	E	F	H
BXT-I-W	240	200	130	30	16	10	20
BXT-II-W	240	200	130	30	16	10	20
BXT-IIB-W	240	200	130	30	16	10	20
BXT-III-W	340	300	230	40	24	12	20
BXT-IIIB-W	340	300	230	40	24	12	20
BXT-IV-W	400	350	265	40	24	12	20
BXT-IVB-W	400	350	265	40	24	12	20
BXT-V-W	450	400	315	40	26	14	20
BXT-VB-W	450	400	315	40	26	14	20
BXT-VI-W	480	430	320	40	26	14	20
BXT-VIB-W	480	430	320	40	26	14	20
BXT-VII-W	620	560	460	50	26	14	20
BXT-VIIB-W	620	560	460	50	26	14	20

Mounting plate

Type	Dimensions						
	A	a	B	b	C	D	t
BXT-I-W	170	120	120	70	14	7	2
BXT-II-W	220	170	120	70	14	7	2
BXT-IIB-W	270	220	120	70	14	7	2
BXT-III-W	270	220	220	170	14	7	2
BXT-IIIB-W	270	220	220	170	14	7	2
BXT-IV-W	350	300	250	200	14	7	2
BXT-IVB-W	350	300	250	200	14	7	2
BXT-V-W	450	390	290	230	14	7	2
BXT-VB-W	450	390	290	230	14	7	2
BXT-VI-W	530	470	330	270	14	7	2
BXT-VIB-W	530	470	330	270	14	7	2
BXT-VII-W	600	550	440	390	14	7	2
BXT-VIIB-W	600	550	440	390	14	7	2

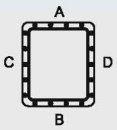
Technical data

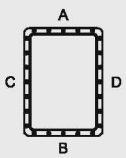
Explosion-proof enclosures BXT-□

Explosion protection	
Gas explosion protection	Ⓔx II 2 G Ex d IIB
Dust explosion protection	Ex tD A21 IP66
Certificates	
For gas explosion protection	LCIE 08 ATEX 0004U; IECEX CQM 08.0016U
For dust explosion protection	PCEC (China)
Conformity to standards	EN 60079-0:2004, EN 60079-1:2004 IEC 60079-0:2004, IEC 60079-1:2003, IEC 61241-0:2004, IEC 61241-1:2004
Degree of protection	IP66
Ambient temperature	-20℃~+55℃
Enclosure material	Copper-free aluminium; powder coated surface, window grey (RAL7040)
Exposed fastener	Stainless steel
Mounting feet	Carbon steel
Hinge	Stainless steel hinges

Cable entry table

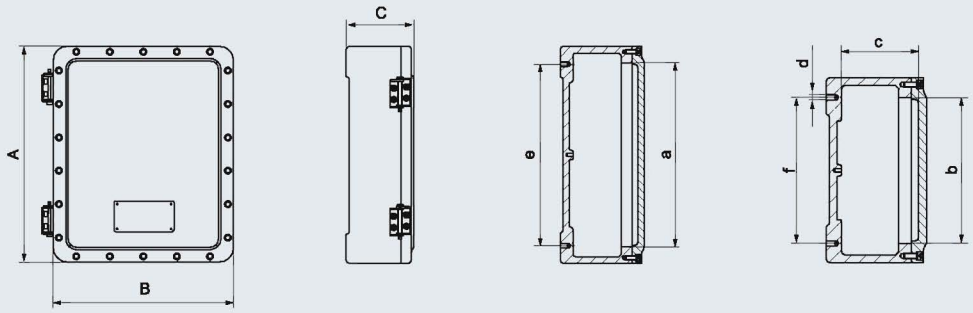
Table of max. number of possible enclosure entries

	I		II		III		IIIB		IV		IVB	
												
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	7	11	11	13	13	16	26	32	13	18	26	36
M25 x 1.5	6	10	10	11	11	14	22	28	11	16	22	32
M32 x 1.5	3	7	7	9	9	11	14	18	9	14	14	21
M40 x 1.5	2	3	3	4	4	5	11	14	4	6	11	15
M50 x 1.5	2	3	3	4	4	4	7	8	4	5	7	9
M63 x 1.5	1	2	2	3	3	4	5	7	3	4	5	7

	V		VB		VI		VIB		VII		VIIB	
												
Size	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D	A/B	C/D
M20 x 1.5	26	29	39	43	29	30	43	44	29	36	43	53
M25 x 1.5	17	19	34	38	19	20	38	40	19	24	38	48
M32 x 1.5	14	16	14	24	16	16	24	24	16	20	24	27
M40 x 1.5	12	13	12	20	12	13	20	21	13	16	20	26
M50 x 1.5	5	6	10	11	6	6	11	11	6	7	11	14
M63 x 1.5	4	5	8	9	4	5	9	9	5	6	9	11

Empty Enclosures
BXT Series Explosion-proof Enclosures (Ex d IIB)

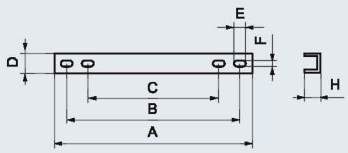
Selection table of BXT-□series explosion-proof enclosures (all dimensions in mm)

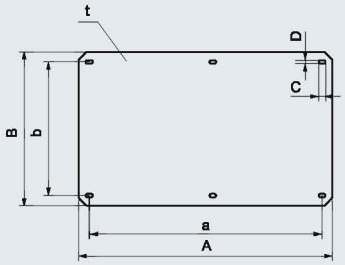


Enclosure

Type	Dimensions									Weight
	A	a	B	b	C	c	e	f	d	(kg)
BXT-I	300	235	200	135	165	115	260	160	M8	10.50
BXT-II	350	285	300	235	165	115	290	240	M8	15.25
BXT-III	420	355	350	285	165	115	360	300	M8	21.20
BXT-IIIB	420	355	350	285	265	215	360	300	M8	23.80
BXT-IV	480	415	350	285	165	115	425	300	M10	22.75
BXT-IVB	480	415	350	285	265	215	425	300	M10	26.25
BXT-V	550	480	500	430	195	140	490	450	M10	40.20
BXT-VB	550	480	500	430	295	240	490	450	M10	45.60
BXT-VI	560	480	550	490	195	140	505	500	M10	43.50
BXT-VIB	560	480	550	490	295	240	505	500	M10	49.00
BXT-VII	670	600	550	480	195	140	615	500	M12	49.50
BXT-VIIB	670	600	550	480	295	240	615	500	M12	55.70

Selection table of BXT-□series explosion-proof enclosures (all dimensions in mm)





Mounting feet

Type	Dimensions						
	A	B	C	D	E	F	H
BXT-I	280	250	160	30	16	10	20
BXT-II	390	350	240	30	16	10	20
BXT-III	450	400	300	30	16	10	20
BXT-IIIB	450	400	300	30	16	10	20
BXT-IV	450	400	300	40	24	12	20
BXT-IVB	450	400	300	40	24	12	20
BXT-V	600	550	450	40	24	12	20
BXT-VB	600	550	450	40	24	12	20
BXT-VI	650	600	500	40	24	12	20
BXT-VIB	650	600	500	40	24	12	20
BXT-VII	650	600	500	50	24	12	20
BXT-VIIB	650	600	500	50	24	12	20

Mounting plate

Type	Dimensions						
	A	a	B	b	C	D	t
BXT-I	226	196	126	96	14	7	2
BXT-II	276	246	226	196	14	7	2
BXT-III	346	316	276	246	16	8	2
BXT-IIIB	346	316	276	246	16	8	2
BXT-IV	406	376	276	246	16	8	2
BXT-IVB	406	376	276	246	16	8	2
BXT-V	474	444	424	394	16	8	2
BXT-VB	474	444	424	394	16	8	2
BXT-VI	484	454	474	444	16	8	2
BXT-VIB	484	454	474	444	16	8	2
BXT-VII	594	564	474	444	16	8	2
BXT-VIIB	594	564	474	444	16	8	2

Distribution Boxes and Empty Enclosures

Empty Enclosures
BXT-e Series Increased Safety Enclosures (Ex e)

- 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
- Copper-free aluminium enclosure (Ex e), 8 types.
- Cable entries can be drilled and components can be installed by user on request.
- Safety shall be considered when installing components according to related electrical standards.
- Special requirements on request.

Catalogue number logic

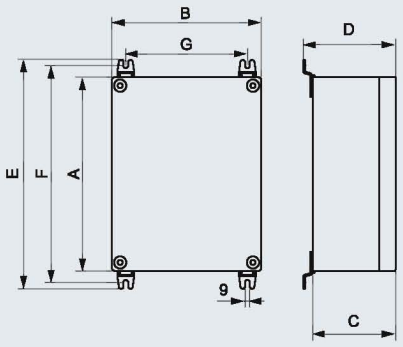
BXT - e - □

- Specification code (I, II , III.....)
- Increased safety enclosures

Technical data	
Increased safety enclosures	**BXT-e-□**
Explosion protection	
Gas explosion protection	Ex II 2 G Ex e IIC Gb
Dust explosion protection	Ex II 2 D Ex tb IIIC Db IP66
Certificates	LCIE 13 ATEX ____
Conformity to standards	EN 60079-0:2009, EN 60079-7:2007, EN 60079-31:2009
	IEC 60079-0:2011, IEC 60079-7:2006, IEC 60079-31:2008
Degree of protection	IP66
Ambient temperature	-60℃~+100℃
Enclosure material	Copper-free aluminium; powder coated surface, window grey (RAL7040)

Zones 1&2; 21&22

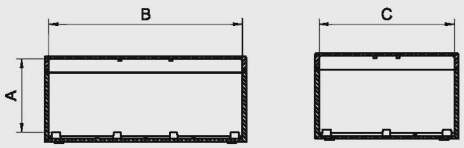
Selection table of BXT-e series increased safety enclosures (all dimensions in mm)



Outline & Installation

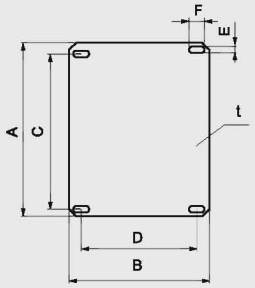
Type	Outline dimensions				Installation dimensions		
	A	B	C	D	E	F	G
BXT-e-I	130	190	127	143	254	232	92
BXT-e-II	190	190	127	143	254	232	150
BXT-e-III	190	250	127	143	314	292	150
BXT-e-IV	250	250	127	143	314	292	210
BXT-e-V	200	300	150	167	364	342	150
BXT-e-VI	300	300	150	167	364	342	250
BXT-e-VII	250	350	150	167	414	392	200
BXT-e-VIII	350	502	150	167	566	566	300

Note: Other dimensions on request



Internal

Type	Dimensions			Weight (kg)
	A	B	C	
BXT-e-I	108	177	120	2.40
BXT-e-II	107	177	177	2.80
BXT-e-III	107	237	177	3.80
BXT-e-IV	107	235	235	5.10
BXT-e-V	130	286	186	5.80
BXT-e-VI	130	286	286	7.10
BXT-e-VII	130	336	236	7.00
BXT-e-VIII	130	488	336	9.50



Mounting plate

Type	Dimensions						
	A	B	C	D	E	F	t
BXT-e-I	173	98	162	40	7	13	2
BXT-e-II	173	117	162	40	7	13	2
BXT-e-III	222	106	200	40	7	13	2
BXT-e-IV	220	160	200	124	7	13	2
BXT-e-V	270	170	210	110	7	13	2
BXT-e-VI	270	270	210	210	7	13	2
BXT-e-VII	320	220	260	160	7	13	2
BXT-e-VIII	470	320	402	206	7	13	2

Distribution Boxes and Empty Enclosures

Empty Enclosures
BXT-S Series Increased Safety Enclosures (Ex e)

- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 1 and Zone 2
  Class I, Zone 1 and Zone 2
  Class I, Division 2, Groups A , B, C, D
- Increased-safety enclosure (Ex e) in stainless steel.
- Cable entries can be drilled and components can be installed by user on request.
- Safety shall be considered when installing components according to related electrical standards.
- Special requirements on request.

Catalogue number logic

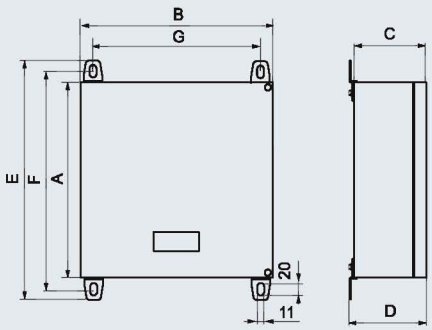
BXT - S - □

- Specification code (I, II , III.....)
- Stainless steel
- Increased safety enclosures

Technical data	
Increased safety enclosures	**BXT-S-□**
Explosion protection	Ex II 2 G Ex e II Gb
Certificates	LCIE 10 ATEX 3070U; POCC CN.Г Ъ05.B03637(Russia)
Conformity to standards	EN 60079-0:2009, EN 60079-7:2007 IEC 60079-0:2011, IEC 60079-7:2006
Degree of protection	IP66
Ambient temperature	-40℃~+60℃
Enclosure material	Stainless steel

Zones 1&2

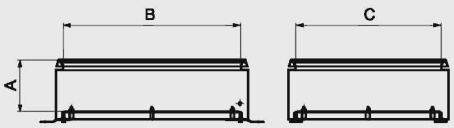
Selection table of BXT-S series increased safety enclosures (all dimensions in mm)



Outline & Installation

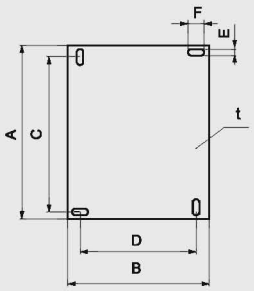
Type	Outline dimensions				Installation dimensions		
	A	B	C	D	E	F	G
BXT-S-I	120	120	88	87	190	156	80
BXT-S-II	190	150	88	97	260	226	110
BXT-S-III	250	250	148	157	320	286	210
BXT-S-IV	300	300	148	157	370	336	260
BXT-S-V	480	480	148	157	550	516	440
BXT-S-VI	600	500	198	207	670	636	460
BXT-S-VII	860	640	218	227	930	896	600

Note: Other dimensions on request



Internal

Type	Dimensions			Weight (kg)
	A	B	C	
BXT-S-I	60	76	76	2.25
BXT-S-II	60	146	106	3.60
BXT-S-III	120	206	206	7.40
BXT-S-IV	120	243	243	8.70
BXT-S-V	120	423	423	18.60
BXT-S-VI	170	543	443	25.70
BXT-S-VII	190	803	583	40.10



Mounting plate

Type	Dimensions						
	A	B	C	D	E	F	t
BXT-S-I	80	70	60	52	5	10	2
BXT-S-II	130	90	110	70	5	10	2
BXT-S-III	190	190	160	166	8	17	2
BXT-S-IV	240	240	210	216	8	17	2
BXT-S-V	420	420	390	390	8	17	2
BXT-S-VI	540	440	510	410	8	17	2
BXT-S-VII	800	580	770	550	8	17	2

Distribution Boxes and Empty Enclosures

Empty Enclosures
BXT8050 Series Explosion-proof Enclosures (Ex e)

- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 1 and Zone 2
  Class I, Zone 1 and Zone 2
  Class I, Division 2, Groups A , B, C, D
- Increased-safety enclosure (Ex e) in GRP; 7 types.
- Cable entries can be drilled and components can be installed by user on request.
- Safety shall be considered when installing components according to related electrical standards.
- Special requirements on request.

Catalogue number logic

BXT 8050-□

- Specification code (I, II , III……)
- Design No.
- Explosion-proof enclosures

Technical data	
Explosion-proof enclosures	**BXT8050-□**
Explosion protection	Ⓔx II 2 G Ex e II
Certificates	LCIE 09 ATEX 3095U
Conformity to standards	EN 60079-0:2006, EN 60079-7:2007 IEC 60079-0:2004, IEC 60079-7:2006
Degree of protection	IP65
Ambient temperature	-20℃~+60℃
Enclosure material	GRP (glass fibre-reinforced polyester resin)
Exposed fastener	Stainless steel

Zones 1&2