

LR Box

3.3kV

The LR Box is designed to allow supply cable to enter and exit at 90° from each other.

Supplied complete with three glands plates, its unique design can be modified by the installer to allow either left hand or right hand cable connections.

- Configure to suit installation orientation on site
- Overload current 1845A for 10 seconds
- Suitable for extreme low temperature applications
- DTS-01 deluge tested enclosure



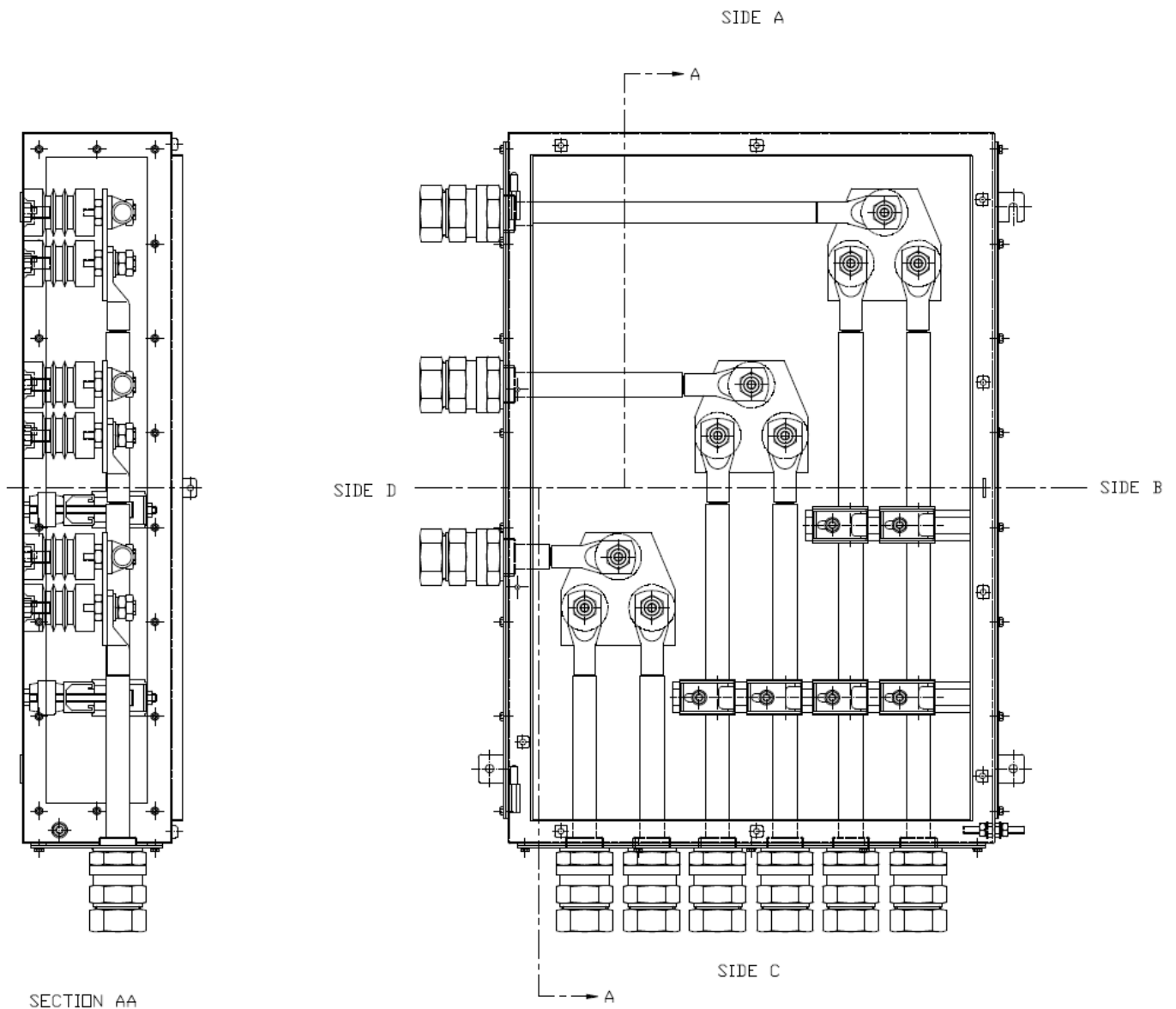
Enclosure Ratings

Product Reference	Width X (mm)	Height Y (mm)	Depth Z (mm)	Maximum Voltage (kV)	Maximum Current (A)	Maximum Conductor Size (mm ²)	Phase	Weight (kg)
LR52 LH	510	510	220	3.3	1250	240	1	30
LR52 RH	510	510	220	3.3	1250	240	1	30
LR73 LH	650	950	220	3.3	1250	240	3	50
LR73 RH	650	950	220	3.3	1250	240	3	50

Standard Specifications

Enclosure Type	High Voltage
Ingress Protection	IP66/67 to EN60529, Type 4X, DTS-01
Material	316L Stainless Steel (EN 1.4404) enclosure, silicone gasket and A4 stainless steel fixings
Ambient Temp Rating	-50°C to +55°C (T3) or -50°C to +40°C (T4)
Maximum No. Busbars	3
No. of Gland Plates	3
Crimp lugs	16mm ² to 240mm ²
Earthing	Via studs on enclosure, door and gland plates
Mounting	Via 3mm thick external mounting straps, slotted upper strap for ease of installation
Certification	
Area Classification	Zone 1 & 21, Gas and Dust / Class 1 Div 2
Type of Protection	Ex e (Increased Safety), Ex tb (Dust Protected)
Apparatus Coding	Ex e IIC T4, Ex tb IIIC IP66 T65°C Db / Ex e IIC T3, Ex tb IIIC IP66 T80°C Db
Certificate Number	CML 14ATEX3008X / IECEx CML 14.0007X

Typical Arrangement



Options

EP	Electro-polished
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Accessories

EABDM2010SS	Breather drain
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MJB Range

8.3kV

The MJB range provides a simple, low cost but effective solution for the connection of high voltage cables. Manufactured from 316L stainless steel and used primarily for jointing cables or as a connection box, the MJB is suitable for up to 4 phase connections (top & bottom) and a maximum of 8.3kV.



- 180° in and out cable connection
- DTS-01 deluge tested enclosure
- Suitable for low temperature applications

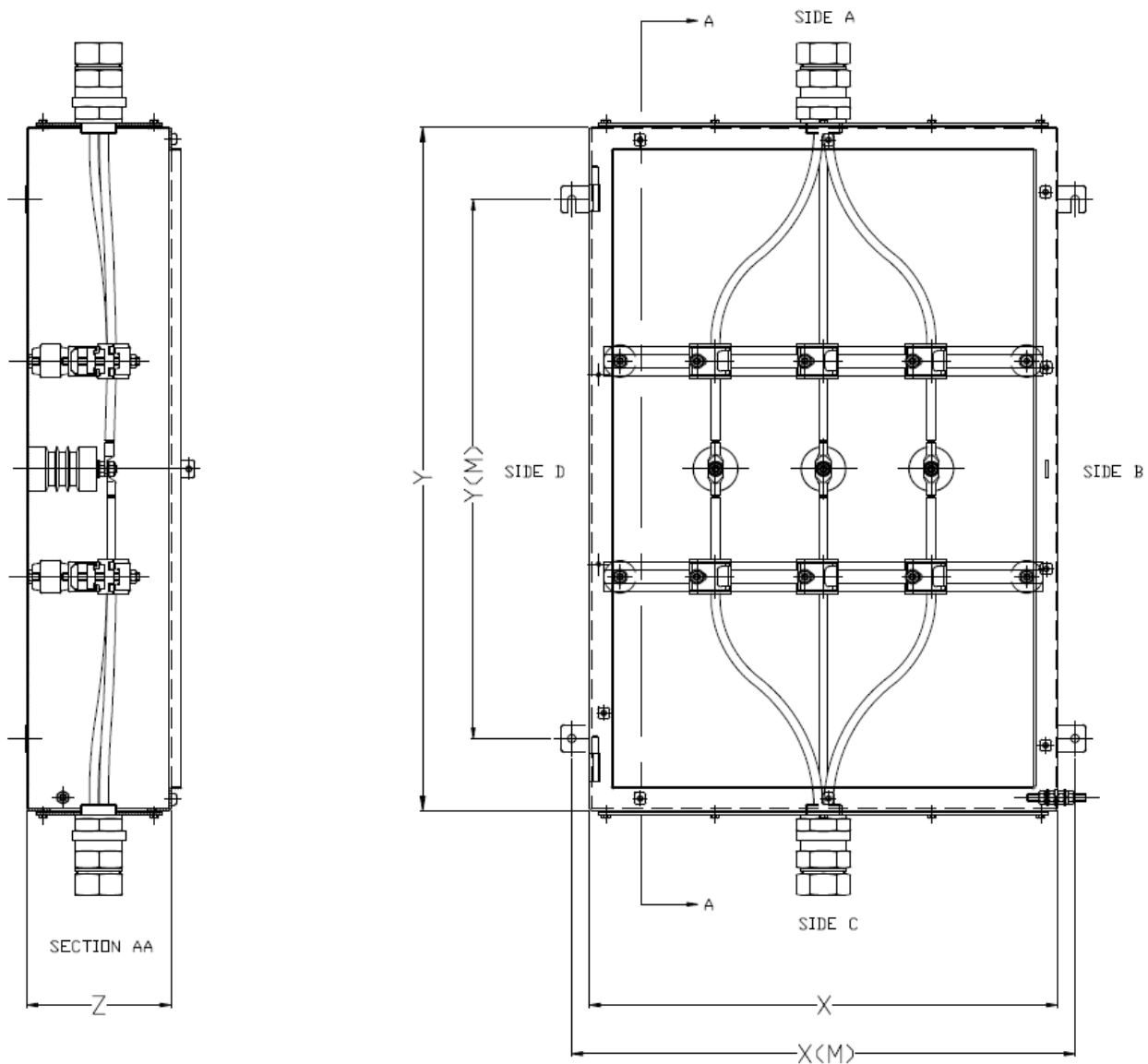
Enclosure Ratings

Product Reference	Width X (mm)	Height Y (mm)	Depth Z (mm)	Power Rating (W)	Maximum Voltage (kV)	Maximum Current (A)	Maximum Conductor Size (mm ²)	Maximum Ways	Weight (kg)
MJB65	510	510	200	16	6.6	Dependant upon connector size	95	4	25
MJB85	510	510	300	16	8.3		35	4	30
MJB66	510	780	200	23	6.6		120	4	32
MJB86	510	780	300	23	8.3		35	4	37
MJB67	650	950	200	33	6.6		240	4	44
MJB87	650	950	300	33	8.3		240	4	50
MJB68	800	1250	200	50	6.6		240	4	57
MJB88	800	1250	300	50	8.3		240	4	77

Standard Specifications

Enclosure Type	High Voltage
Ingress Protection	IP66 to EN60529, Type 4X, DTS-01
Material	316L Stainless Steel (EN 1.4404) enclosure, silicone gasket and A4 stainless steel fixings
Ambient Temp Rating	-50°C to +40°C or -50°C to +65°C (refer to certificate – Table 2, max power dissipation)
Maximum Terminations	Refer to enclosure rating table above
No. of Gland Plates	2
Connector Size	6mm ² to 150mm ² for 4 way / 35mm ² to 240mm ² for 3 way
Earthing	Via studs on enclosure, door and gland plates
Mounting	Via 3mm thick external mounting straps, slotted upper strap for ease of installation
Certification	
Area Classification	Zone 1 & 21, Gas and Dust / Class 1 Division 2
Type of Protection	Ex e, Ex tD
Apparatus Coding	Ex II 2 G D, Ex e II T6, Ex tD A21 IP66 T85°C
Certificate Number	Sira 99ATEX3176

General Arrangement



Options

/4	4 Way Enclosure
/E	3 Way Enclosure with 4 x M10 Earth Points (6.6kV only)

Add the required suffix to the product reference. Restrictions may apply.
 Example: MJB67/4 = MJB suitable for 6.6kV, based on SX7 box, with 4 ways

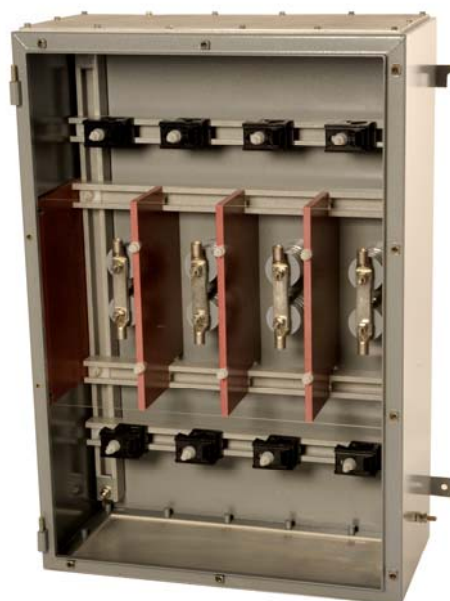
Accessories

EABDM2010SS	M20 Breather drain
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HVJB Range

The latest in the high voltage range offering enhanced flexibility over the choice of cables, entries and cable terminations. The HVJB can accept up to 4 phase connections either straight through or bottom entry only. The unit can accommodate up to three connectors per phase.

- Fault rated 45kA for 1 second
- DTS-01 deluge tested enclosure
- Suitable for low temperature applications
- Heavy duty machined hinges with lift off cover pad-lockable cover



11kV



Enclosure Ratings

Product Reference*	Width (mm)	Height (mm)	Depth (mm)	Power Rating @ T4 (W)**	Maximum Voltage (kV)	Maximum Current (A)	Maximum Conductor Size (mm ²)	Maximum Ways	Weight (kg)
HVJB73(x-x)	650	950	300	259/129.5	11	980	1000***	3	70
HVJB83(x-x)	800	1250	300	346/173	11	980	1000	3	97
HVJB84(x-x)	800	1250	300	346/173	11	980	1000	4	97

* (x-x) demotes the number of connectors per phase, 1st position = top, 2nd position = bottom. For example: HVJB73(2-1) = 2 x conductors per phase top entry and 1 x conductor per phase bottom entry.

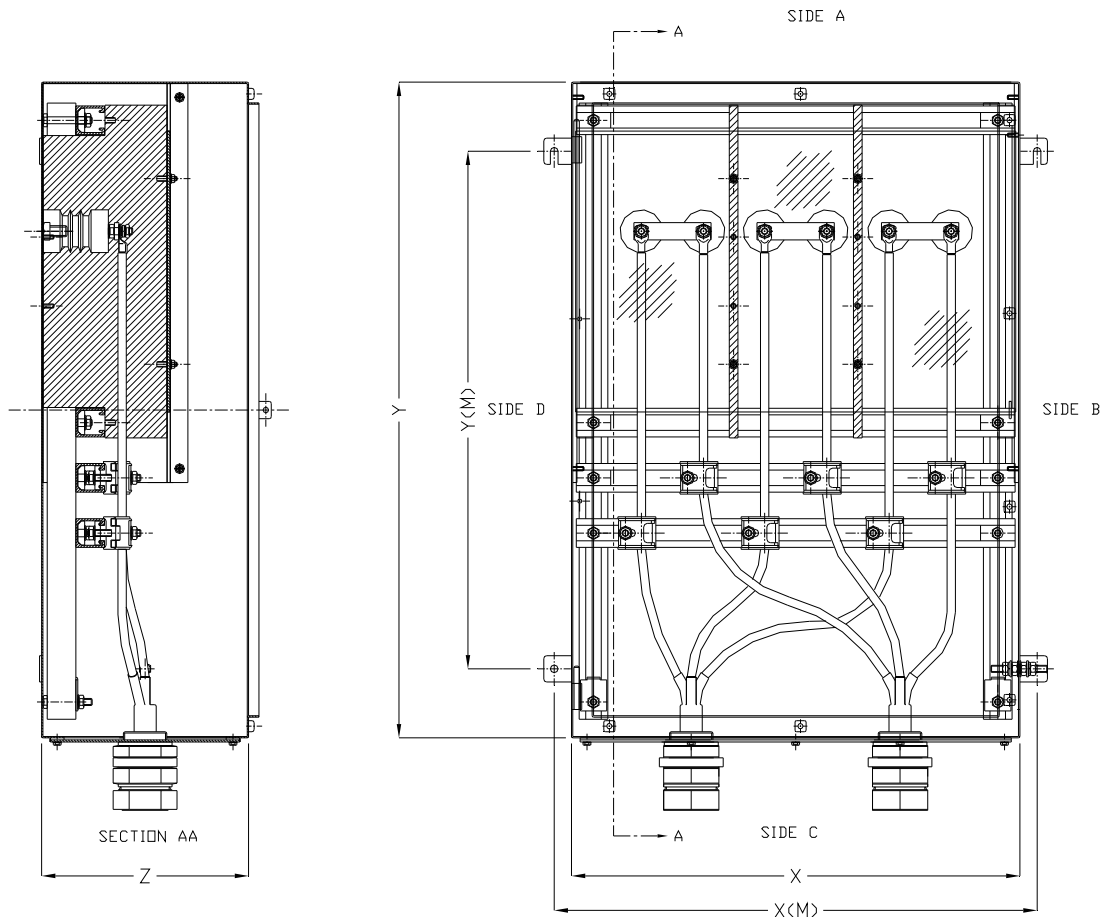
** Power rating is determined by ambient temp range: -20 to +40°C / -50 to +55°C respectively. The higher power rating can also be achieved if the enclosure is marked Ex e IIC T150°C Gb.

*** For cables greater than 300mm², it is advisable to use the HVJB8 size enclosure.

Standard Specifications

Enclosure Type	High Voltage
Ingress Protection	IP66/67 to EN60529, Type 4X, DTS-01
Impact Resistance	>7Nm
Material	2mm 316L Stainless Steel (EN 1.4404) enclosure with orbital finish, silicone gasket and captive 316 stainless steel fasteners, 3mm 316L (EN 1.4404) Stainless Steel gland plates
Ambient Temp Rating	-20°C to +40°C or -50°C to +55°C (refer to certificate)
Maximum Terminations	3 conductors per phase in & 3 conductors per phase out
No. of Gland Plates	Dependant upon configuration
Crimp Lugs	6mm ² to 1000mm ²
Earthing	Via studs on enclosure, door and gland plates
Mounting	Via 3mm thick external mounting straps, slotted upper strap for ease of installation
Certification	
Area Classification	Zone 1 & 21, Gas and Dust / Class 1 Div 2 / EAC (TR-CU)
Type of Protection	Ex e (Increased Safety), Ex tb (Dust Protected)
Apparatus Coding	Ex e IIC T4 Gb, Ex tb IIIC T70°C Db / Ex e IIC T150°C Gb, Ex tb IIIC T110°C Db
Certificate Number	ATEX: Sira 02 ATEX3266 / IECEx: SIR 12.0069

General Arrangement



	X	X (M)	Y	Y(M)	Z
HVJB73	650	700	950	750	300
HVJB83	800	850	1250	1050	300
HVJB84	800	850	1250	1050	300

Dimensions in mm

Options

ACH	Anti-condensation heater (dependent upon available internal dimensions)
EP	Electro-polished
PS	Epoxy powder coated, smooth finish (RAL colour may be specified)
PT	Epoxy powder coated, Hammer Grey
BPG	Single core terminal box mounted internally
CP	Internal access protection cover plate
MB	Mounting boss for eye bolts

Add the required suffix to the product reference.

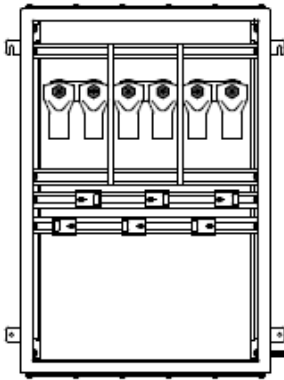
Example: HVJB73(0-3)BPG = HVJB 7, 3- way with 3 entries in bottom and internal terminal box

Accessories

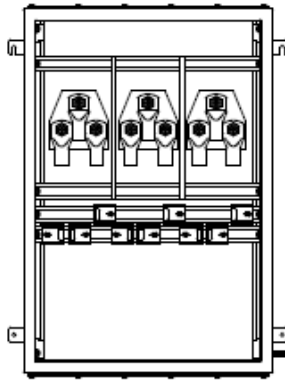
ABDM2010SS	M20 Breather drain
ABDM2510SS	M25 Breather drain
FBM12EEMS***	M12 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>
FBM16EEMS***	M16 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>

*** Stainless steel lifting eye bolts also available, contact sales for information

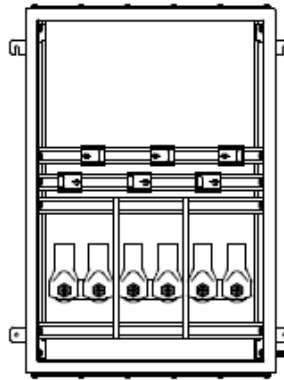
Arrangement Examples



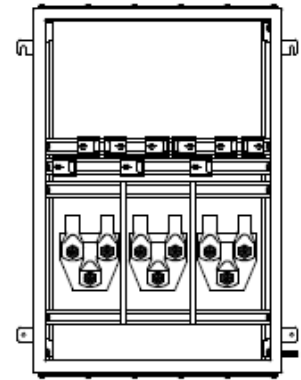
HVJB X3 (0-2)
Cables entering from
bottom only



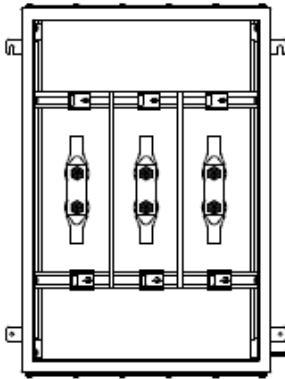
HVJB X3 (0-3)
Cables entering from
bottom only



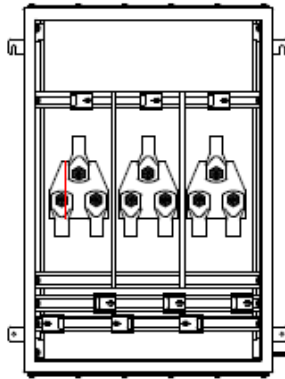
HVJB X3 (2-0)
Cables entering from
top only



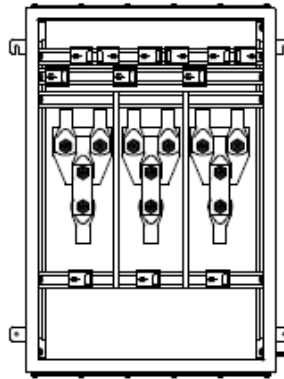
HVJB X3 (3-0)
Cables entering from
top only



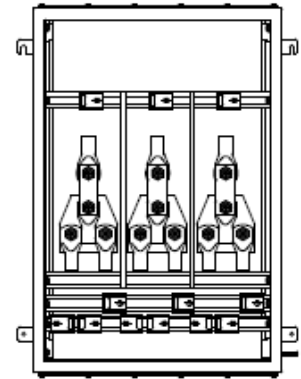
HVJB X3 (1-1)
Cables entering from
top and bottom



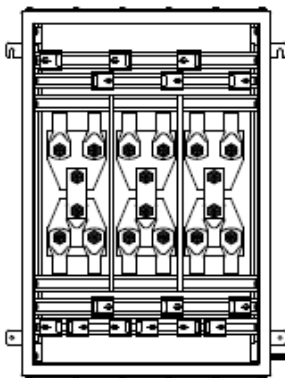
HVJB X3 (1-2)
Cables entering from
top and bottom



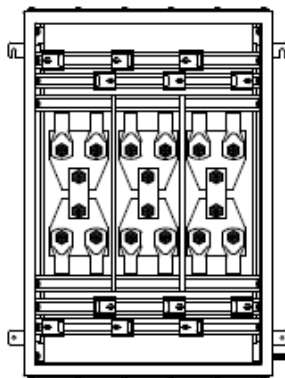
HVJB X3 (3-1)
Cables entering from
top and bottom



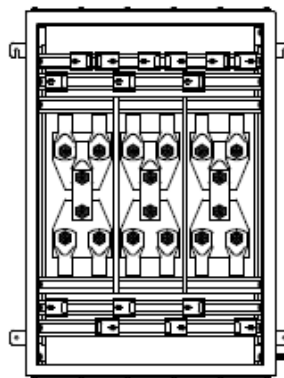
HVJB X3 (3-3)
Cables entering from
top and bottom



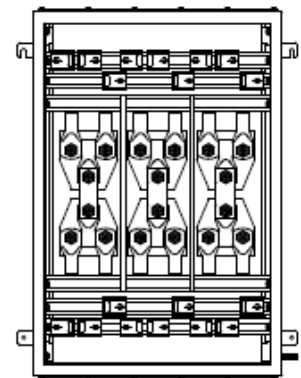
HVJB X3 (2-3)
Cables entering from
top and bottom



HVJB X3 (2-2)
Cables entering from
top and bottom



HVJB X3 (3-2)
Cables entering from
top and bottom



HVJB X3 (3-3)
Cables entering from
top and bottom

* X represents box size 7 or 8.

** HVJB 84 4 way arrangements also available.

ABJB Range

15kV

Based on the ABB range but suitable for up to 15kV, the ABB can accept up to 4 phase connections either straight through or bottom entry only. The unit can accommodate up to three connectors per phase.

- Fault rated 45kA for 0.2 seconds
- DTS-01 deluge tested enclosure
- Wide ambient temp range
- Heavy duty machined hinges with lift off cover pad-lockable cover



Enclosure Ratings

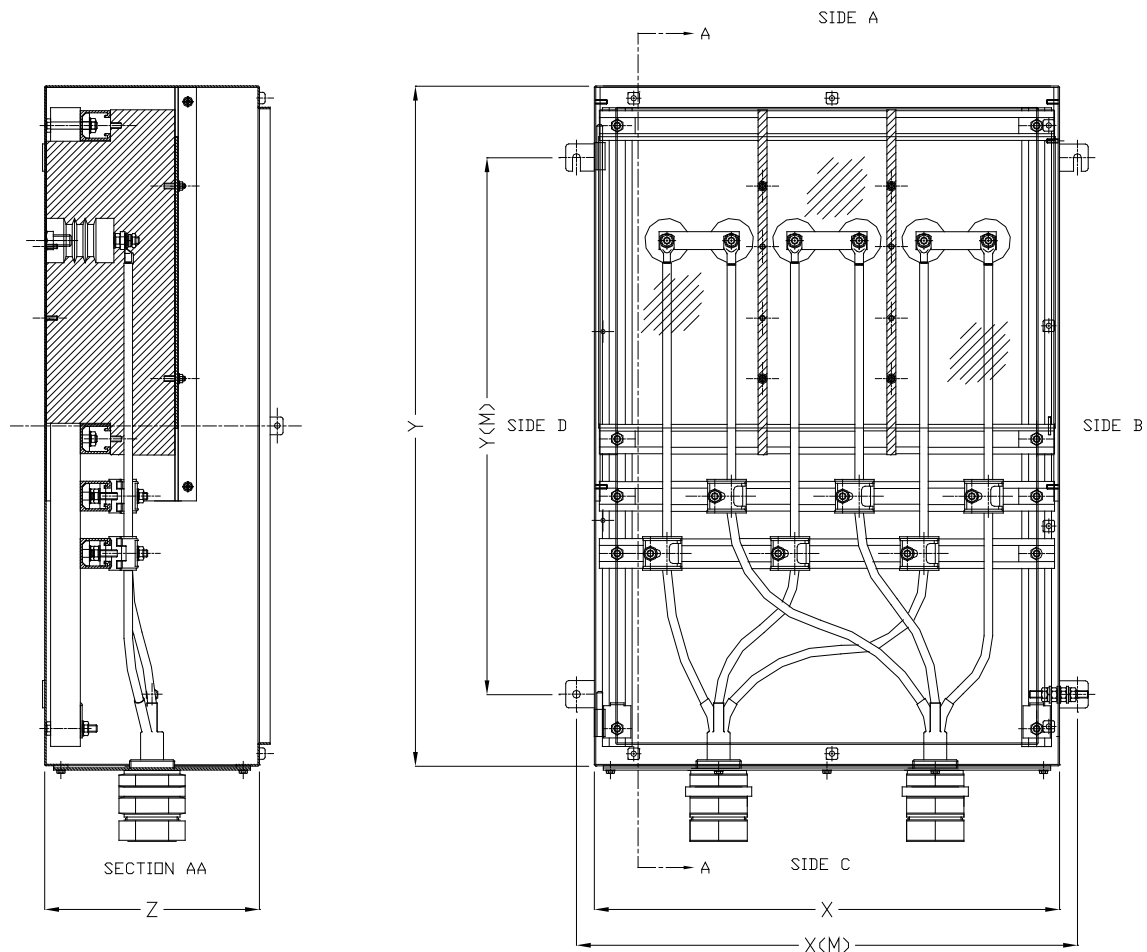
Product Reference*	Width (mm)	Height (mm)	Depth (mm)	Maximum Power Rating (W)	Maximum Voltage (kV)	Maximum Current (A)	Maximum Conductor Size (mm ²)	Maximum Ways	Weight (kg)
ABJB-73(x-x)	650	950	300	259	15	980	1000	3	75
ABJB-83(x-x)	800	1250	300	346	15	980	1000	3	102
ABJB-84(x-x)	800	1250	300	346	15	980	1000	4	102

* (x-x) denotes the number of connectors per phase, 1st position = top, 2nd position = bottom. For example: ABB73(2-1) = 2 x conductors per phase top entry and 1 x conductor per phase bottom entry.

Standard Specifications

Enclosure Type	High Voltage
Ingress Protection	IP66 to EN60529, Type 4X, DTS-01
Impact Resistance	>7Nm
Material	2mm 316L Stainless Steel (EN 1.4404) enclosure with orbital finish, silicone gasket and captive 316 stainless steel fasteners, 3mm 316L (EN 1.4404) Stainless Steel gland plates
Ambient Temp Rating	-20°C to +40°C
Maximum Terminations	3 conductors per phase in & 3 conductors per phase out
No. of Gland Plates	Dependant upon configuration
Crimp lugs	16mm ² to 1000mm ²
Earthing	Via studs on enclosure, door and gland plates
Mounting	Via 3mm thick external mounting straps, slotted upper strap for ease of installation
Certification	
Area Classification	Zone 1 & 21, Gas and Dust / Class 1 Div 2
Type of Protection	Ex (Apparatus Certified), Ex tD (Dust Protected)
Apparatus Coding	Ex II 2 G, Ex tD A21 IP66 T70°C
Certificate Number	Sira 08ATEX3017X

Dimensions



	X	X (M)	Y	Y (M)	Z
ABJB73	650	700	950	750	300
ABJB83	800	850	1250	1050	300
ABJB84	800	850	1250	1050	300

Dimensions in mm

Options

ACH	Anti-condensation heater (dependent upon available internal dimensions)
EP	Electro-polished
PS	Epoxy powder coated, smooth finish (RAL colour may be specified)
PT	Epoxy powder coated, Hammer Grey
BPG	Single core terminal box mounted internally
CP	Internal access protection cover plate
MB	Mounting boss for eye bolts

Add the required suffix to the product reference.

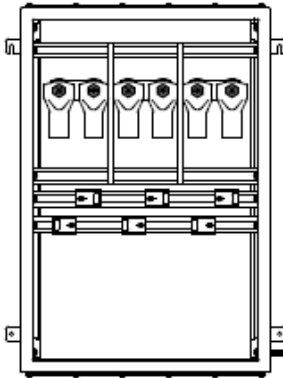
Example: ABJB73(2-2)PT = ABJB7 with 2 x conductors per phase top entry and 2 x conductor per phase bottom entry, Hammer paint finish.

Accessories

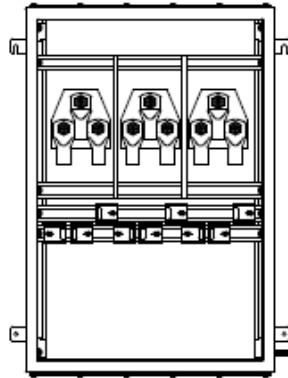
ABDM2010SS	M20 Breather drain
ABDM2510SS	M25 Breather drain
FBM12EEMS***	M12 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>
FBM16EEMS***	M16 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>

*** Stainless steel lifting eye bolts also available, contact sales for information

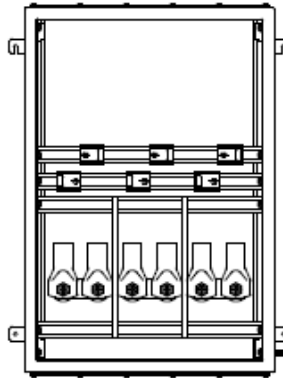
Arrangement Examples



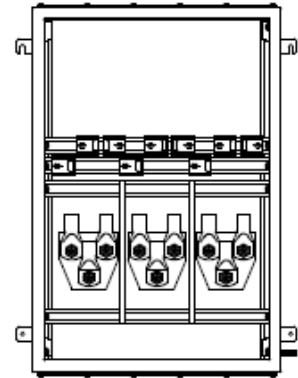
ABJB X3 (0-2)
Cables entering from
bottom only



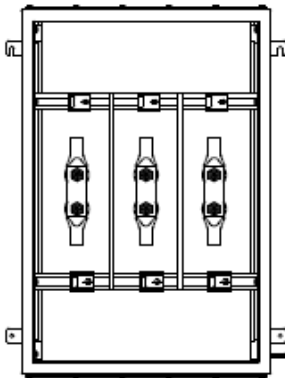
ABJB X3 (0-3)
Cables entering from
bottom only



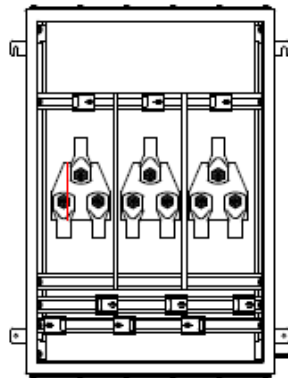
ABJB X3 (2-0)
Cables entering from
top only



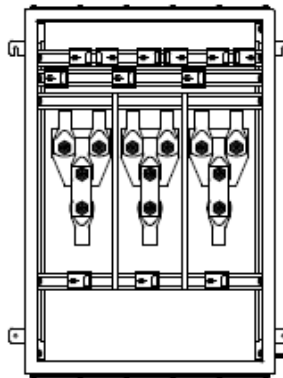
ABJB X3 (3-0)
Cables entering from
top only



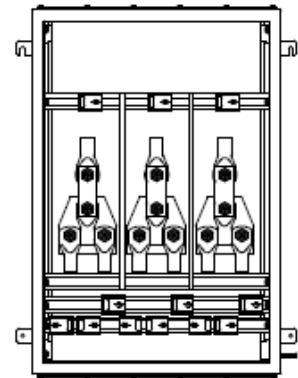
ABJB X3 (1-1)
Cables entering from
top and bottom



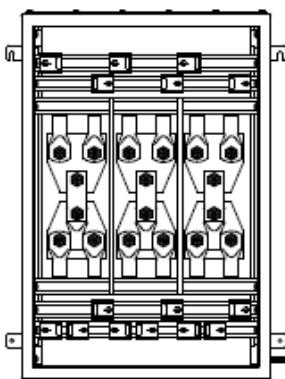
ABJB X3 (1-2)
Cables entering from
top and bottom



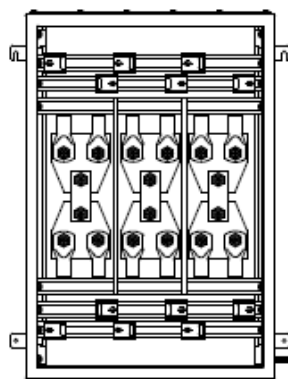
ABJB 83 (3-1)
Cables entering from
top and bottom



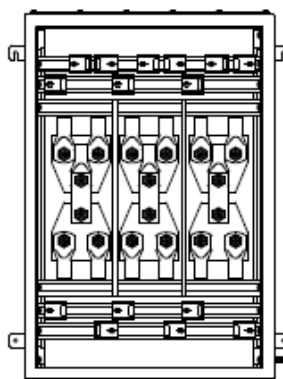
ABJB 83 (1-3)
Cables entering from
top and bottom



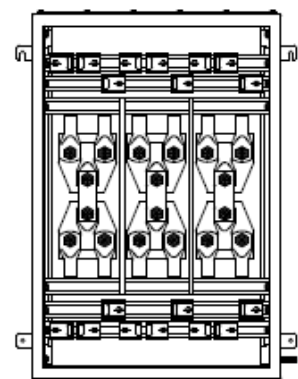
ABJB 83 (2-3)
Cables entering from
top and bottom



ABJB 83 (2-2)
Cables entering from
top and bottom



ABJB 83 (3-2)
Cables entering from
top and bottom



ABJB 83 (3-3)
Cables entering from
top and bottom

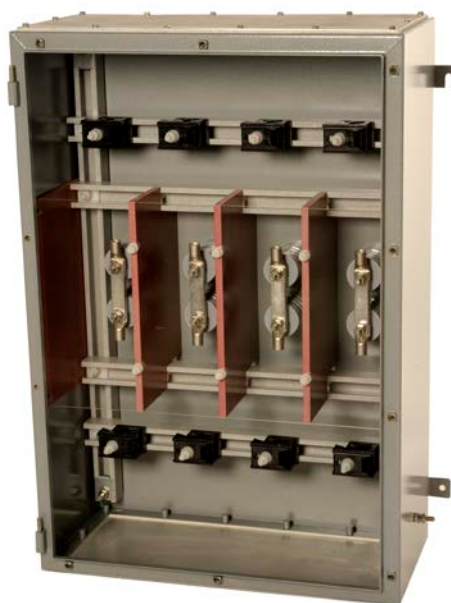
* X represents box size 7 or 8.

** ABB 84 4 way arrangements also available.

HVJB Range

The latest in the high voltage range offering enhanced flexibility over the choice of cables, entries and cable terminations. The HVJB can accept up to 4 phase connections either straight through or bottom entry only. The unit can accommodate up to three connectors per phase.

- Fault rated 45kA for 1 second
- DTS-01 deluge tested enclosure
- Suitable for low temperature applications
- Heavy duty machined hinges with lift off cover pad-lockable cover



15kV



Enclosure Ratings

Product Reference*	Width (mm)	Height (mm)	Depth (mm)	Power Rating @ T4 (W)**	Maximum Voltage (kV)	Maximum Current (A)	Maximum Conductor Size (mm ²)	Maximum Ways	Weight (kg)
HVJB73(x-x)	650	950	300	259/129.5	15	980	1000***	3	70
HVJB83(x-x)	800	1250	300	346/173	15	980	1000	3	97
HVJB84(x-x)	800	1250	300	346/173	15	980	1000	4	97

* (x-x) denotes the number of connectors per phase, 1st position = top, 2nd position = bottom. For example: HVJB73(2-1) = 2 x conductors per phase top entry and 1 x conductor per phase bottom entry.

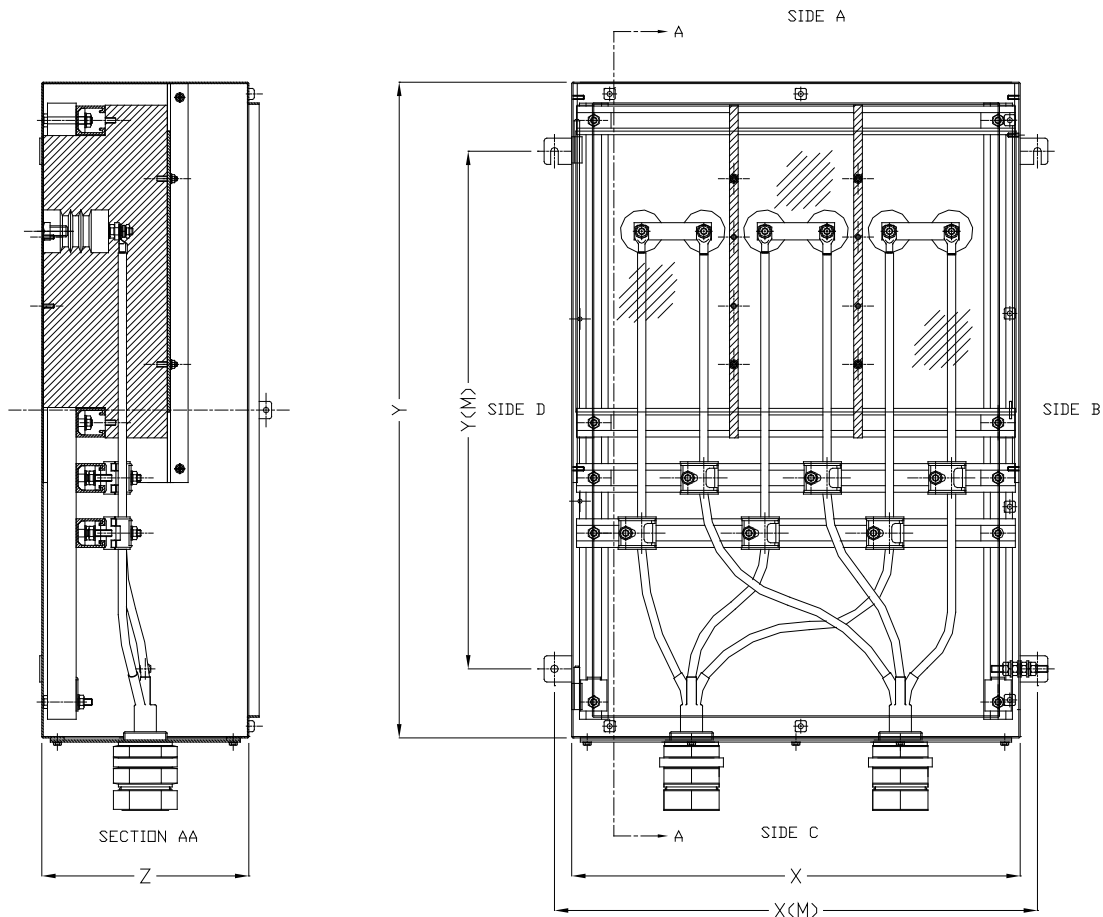
** Power rating is determined by ambient temp range: -20 to +40°C / -50 to +55°C respectively. The higher power rating can also be achieved if the enclosure is marked Ex e IIC T150°C Gb.

*** For cables greater than 300mm², it is advisable to use the HVJB8 size enclosure.

Standard Specifications

Enclosure Type	High Voltage
Ingress Protection	IP66/67 to EN60529, Type 4X, DTS-01
Impact Resistance	>7Nm
Material	2mm 316L Stainless Steel (EN 1.4404) enclosure with orbital finish, silicone gasket and captive 316 stainless steel fasteners, 3mm 316L (EN 1.4404) Stainless Steel gland plates
Ambient Temp Rating	-20°C to +40°C or -50°C to +55°C (refer to certificate)
Maximum Terminations	3 conductors per phase in & 3 conductors per phase out
No. of Gland Plates	Dependant upon configuration
Crimp Lugs	6mm ² to 1000mm ²
Earthing	Via studs on enclosure, door and gland plates
Mounting	Via 3mm thick external mounting straps, slotted upper strap for ease of installation
Certification	
Area Classification	Zone 1 & 21, Gas and Dust / Class 1 Div 2 / EAC (TR-CU)
Type of Protection	Ex nA (Non Sparking), Dust Protected
Apparatus Coding	Ex nA II T4 GD T70°C
Certificate Number	ATEX: Sira 06ATEX4280 / IECEx: Pending

General Arrangement



	X	X (M)	Y	Y(M)	Z
HVJB73	650	700	950	750	300
HVJB83	800	850	1250	1050	300
HVJB84	800	850	1250	1050	300

Dimensions in mm

Options

MS	Mild steel version
ACH	Anti-condensation heater (dependent upon available internal dimensions)
EP	Electro-polished
PS	Epoxy powder coated, smooth finish (RAL colour may be specified)
PT	Epoxy powder coated, Hammer Grey
BPG	Single core terminal box mounted internally
CP	Internal access protection cover plate
MB	Mounting boss for eye bolts

Add the required suffix to the product reference.

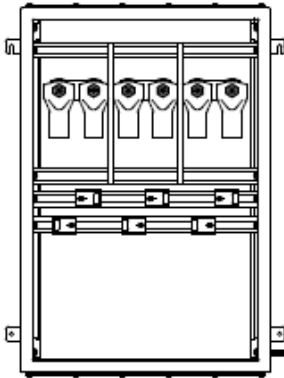
Example: HVJB73(0-3)BPG = HVJB 7, 3- way with 3 entries in bottom and internal terminal box

Accessories

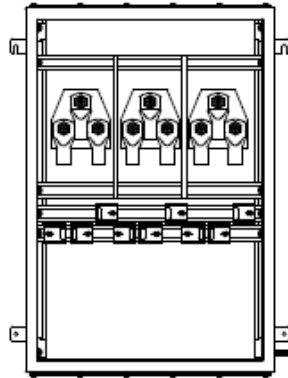
ABDM2010SS	M20 Breather drain
ABDM2510SS	M25 Breather drain
FBM12EEMS***	M12 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>
FBM16EEMS***	M16 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>

*** Stainless steel lifting eye bolts also available, contact sales for information

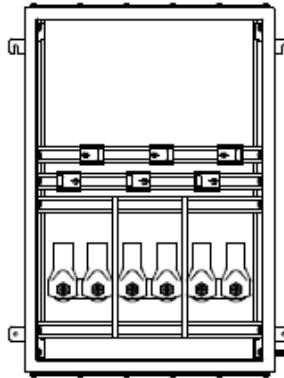
Arrangement Examples



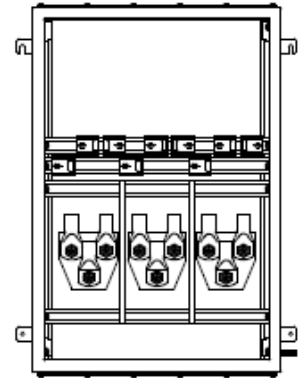
HVJB X3 (0-2)
Cables entering from
bottom only



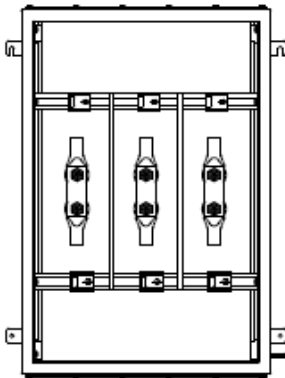
HVJB X3 (0-3)
Cables entering from
bottom only



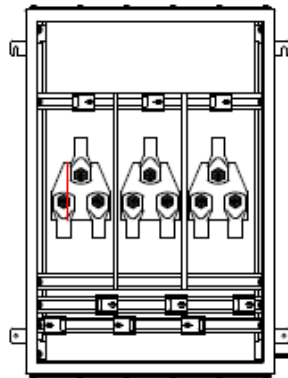
HVJB X3 (2-0)
Cables entering from
top only



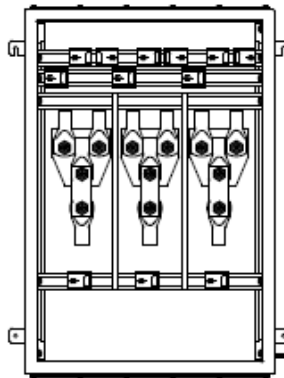
HVJB X3 (3-0)
Cables entering from
top only



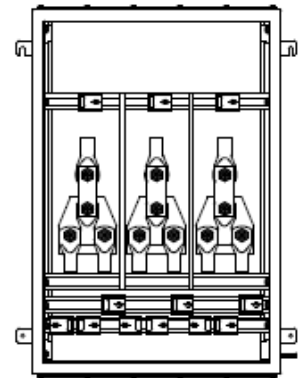
HVJB X3 (1-1)
Cables entering from
top and bottom



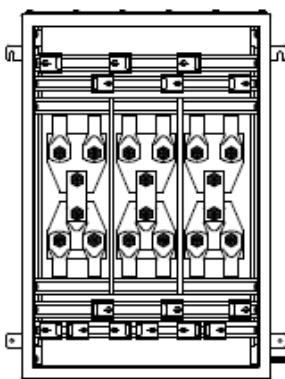
HVJB X3 (1-2)
Cables entering from
top and bottom



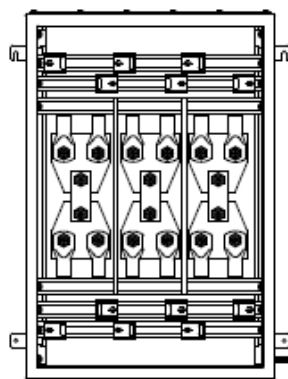
HVJB X3 (3-1)
Cables entering from
top and bottom



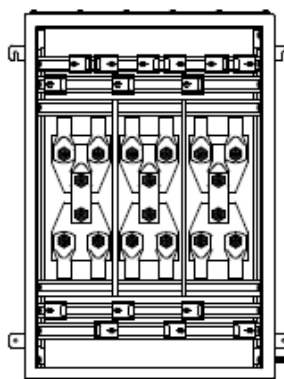
HVJB X3 (3-3)
Cables entering from
top and bottom



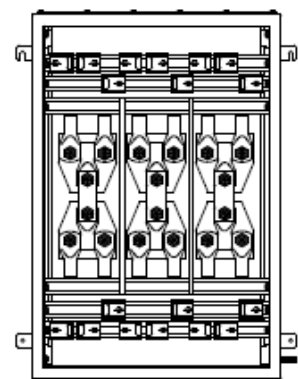
HVJB X3 (2-3)
Cables entering from
top and bottom



HVJB X3 (2-2)
Cables entering from
top and bottom



HVJB X3 (3-2)
Cables entering from
top and bottom



HVJB X3 (3-3)
Cables entering from
top and bottom

* X represents box size 7 or 8.

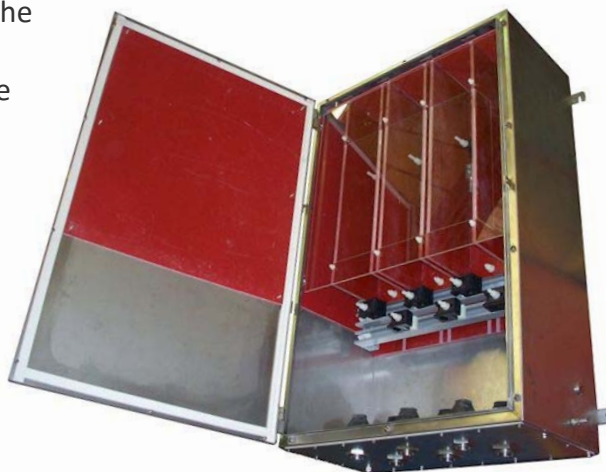
** HVJB 84 4 way arrangements also available.

TFJB Range

36kV

The latest in the high voltage range offering, the TFJB can accept three phase connections via bottom entry only. The unit can accommodate one* connector per phase in and out.

- Up to 36kV in Zone 1 Areas
- Maximum current 312A
- DTS-01 deluge tested enclosure
- Heavy duty machined hinges with lift off cover pad-lockable cover for easy installation



Enclosure Ratings

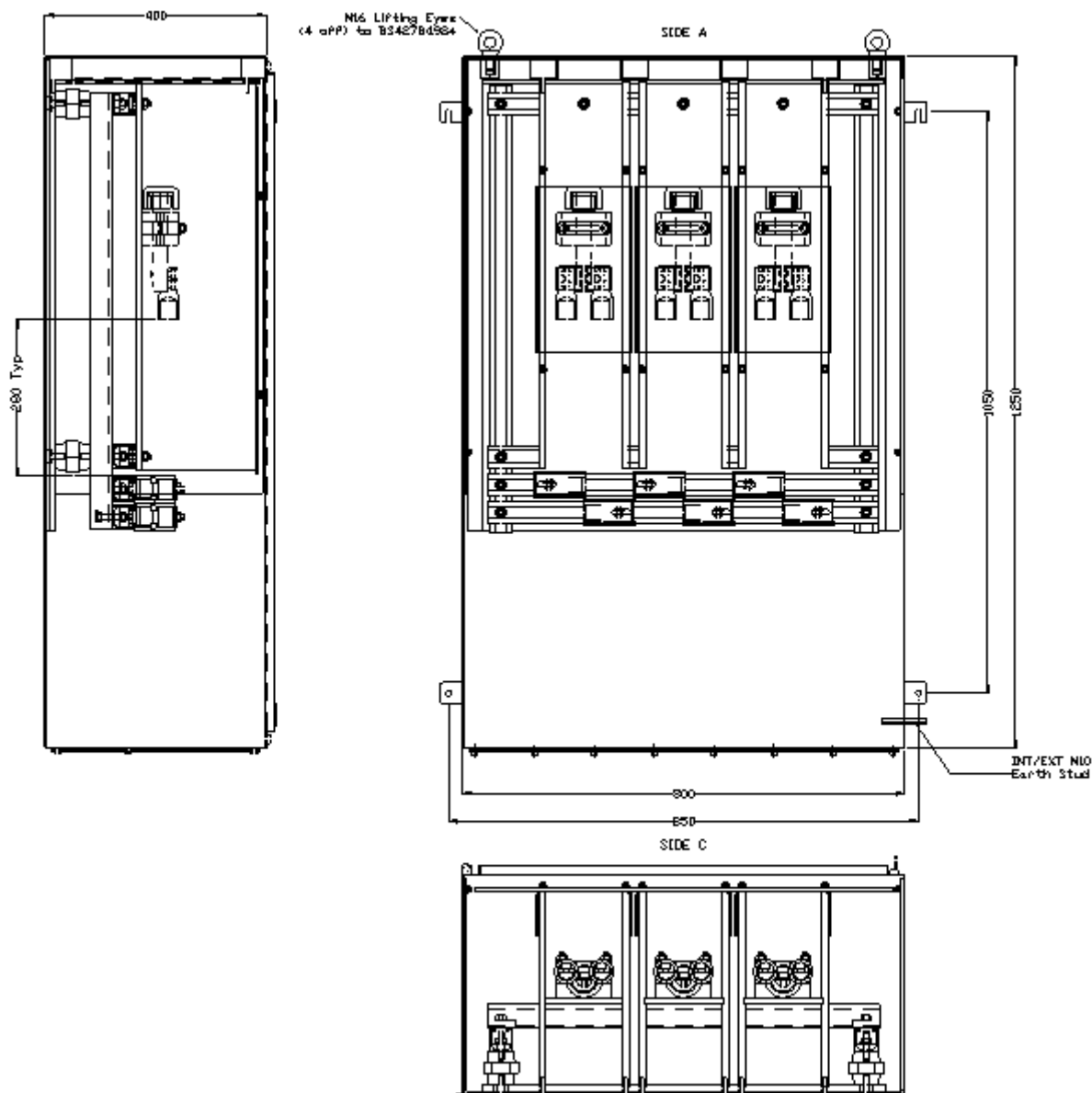
Product Reference	Width (mm)	Height (mm)	Depth (mm)	Power Rating @ T4 (W)	Maximum Voltage (kV)	Maximum Current (A)	Ambient Range	Weight (kg)
TFJB 83 (0-2)	800	1250	400	174	36	312	-20°C to +40°C	98

Standard Specifications

Enclosure Type	High Voltage
Ingress Protection	IP66 to EN60529, Type 4X, DTS-01
Impact Resistance	>7Nm (tested above 10 Nm)
Material	2mm 316L Stainless Steel (EN 1.4404) enclosure with orbital finish, silicone gasket and captive 316 stainless steel fasteners, 3mm 316L (EN 1.4404) Stainless Steel gland plate
Maximum Terminations	1 conductor per phase in & 1 conductor per phase out
No. of Gland Plates	1 bottom side
Crimp Lugs	6mm ² to 630mm ²
Earthing	Via studs on enclosure, door and gland plate
Mounting	Via 3mm thick external mounting straps, slotted upper strap for ease of installation
Certification	
Area Classification	Zone 1 & 21, Gas and Dust
Apparatus Coding	Ex II 2 GD T4 Gb, Ex tb IIIC T135°C Db
Certificate Number	Sira 09ATEX3313X

* Represents standard configuration. Other termination arrangements may be possible, please contact sales for further information

General Arrangement



Options

ACH	Anti-condensation heater
EP	Electro-polished
PS	Epoxy powder coated, smooth finish (RAL colour may be specified)
PT	Epoxy powder coated, Hammer Grey
MB	Mounting boss for eye bolts

Add the required suffix to the product reference.

Example: TFJBPT = TFJB with Hammer Grey paint finish

Accessories

ABDM2010SS	M20 Breather drain
ABDM2510SS	M25 Breather drain
FBM12EEMS**	M12 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>
FBM16EEMS**	M16 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>

**Stainless steel lifting eye bolts also available, contact sales for information

4TJB Range

The latest in the high voltage range offering enhanced flexibility over the choice of cables, entries and cable terminations. The 4TJB can accept three phase connections either straight through or bottom entry only. The unit can accommodate one* connector per phase in and out.

- Up to 45kV in Zone 1 Areas
- DTS-01 deluge tested enclosure
- Heavy duty machined hinges with lift off cover pad-lockable cover



45kV



Enclosure Ratings

Product Reference*	Width (mm)	Height (mm)	Depth (mm)	Power Rating @ T4 (W)	Maximum Voltage (kV)	Maximum Current (A)	Ambient Range	Weight (kg)
4TJB(x-x)	1300	1500 to 2000	500	346	45	980	-20°C to +40°C	290
4TJB(x-x)	1300	1500 to 2000	500	288	45	980	-20°C to +55°C	290

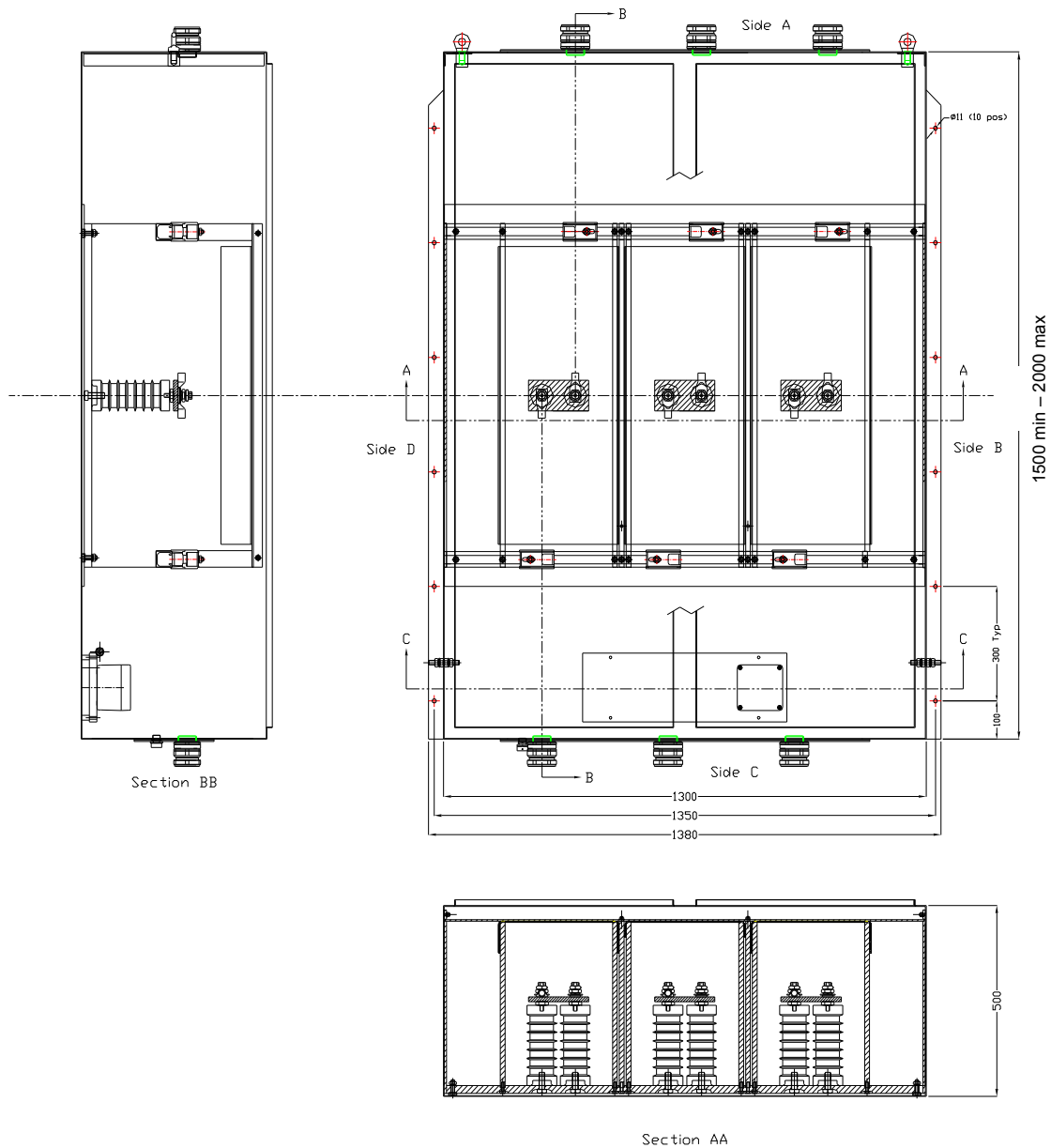
* (x-x) demotes the number of connectors per phase, 1st position = top, 2nd position = bottom. For example: 4TJB(1-1) = 1 x conductors per phase top entry and 1 x conductor per phase bottom entry.

Standard Specifications

Enclosure Type	High Voltage
Ingress Protection	IP66 to EN60529, Type 4X, DTS-01
Impact Resistance	>7Nm (tested above 10 Nm)
Material	2mm 316L Stainless Steel (EN 1.4404) enclosure with orbital finish, silicone gasket and captive 316 stainless steel fasteners, 3mm 316L (EN 1.4404) Stainless Steel gland plates
Maximum Terminations	1 conductor per phase in & 1 conductors per phase out
No. of Gland Plates	Dependant upon configuration
Crimp Lugs	6mm ² to 1000mm ²
Earthing	Via studs on enclosure, door and gland plates
Mounting	Via heavy duty 3mm thick external angle frames
Certification	
Area Classification	Zone 1 & 21, Gas and Dust
Apparatus Coding	Ex II 2 GD T4 Gb, Ex tb IIIC T135°C Db
Certificate Number	CML 14ATEX3025X

* Represents standard configuration. Other termination arrangements may be possible, please contact sales for further information

General Arrangement



Options

ACH	Anti-condensation heater
EP	Electro-polished
PS	Epoxy powder coated, smooth finish (RAL colour may be specified)
PT	Epoxy powder coated, Hammer Grey
MB	Mounting boss for eye bolts

Add the required suffix to the product reference.

Example: 4TJB(1-1)PT = 4TJB with 1 x conductors per phase top entry and 1 x conductor per phase bottom entry with Hammer Grey paint finish

Accessories

ABDM2010SS	M20 Breather drain
ABDM2510SS	M25 Breather drain
FBM12EEMS***	M12 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>
FBM16EEMS***	M16 Lifting Eye bolts in mild steel, <i>Note: Requires MB suffix option listed above</i>

*** Stainless steel lifting eye bolts also available, contact sales for information