MV/MVH Terminal within SX Enclosure

Up to 8.8kV

The flexible MV/MVH terminal provides a compact, reliable solution for terminating medium voltage cables carrying voltages of up to 8.8kV in hazardous areas.

Housed within Abtech's field proven SX stainless steel enclosure, the complete assembly benefits from robust 316L construction, delivering excellent corrosion resistance and protection for harsh environments.
Together, they form a high-integrity, certified solution for safe and efficient medium-voltage connections.

Version shown is a through box configuration – Cables enter from top & bottom

General Arrangement

Max Operating Voltage	MV up to 4.4kV, MV*T up to 6.6kV, MVH up to 8.8kV (see terminal data below)	
Operating Temp Rating	-40°C to +130°C	
Crimp Lugs	MV - M8 single or double hole, sizes 1.5mm² up to 240mm²	
	MVH – M10 single or double hole, sizes 1.5mm² up to 240mm²	
Mounting	4 x M8 clearance holes	
Link Bars	Tinned copper	
Certification	**MV Terminal**	**SX Enclosure with MV/MVH**
Area Classification	Zone 1 component certificate	Zone 1 & 21 apparatus certificate
Type of Protection	Ex eb (Increased Safety)	Ex eb (Increased Safety) Ex tb (Dust Protection)
Certificate Number	ATEX: CML 15ATEX3096U IECEx: CML 15.0051U UKCA: CML 23UKEX3297U	ATEX: CML 14ATEX3123X IECEx: CML 14.0047X UKCA: CML 21UKEX31093X

Terminal Data

Terminal	Max Conductor Size (mm²)	Max AC/DC Operating Voltage (kV)		Max Current (A)	Cable Lug Fixing Centres (mm)	Cable Lug Fixing Stud	Ways
		Standard Barriers	Tall Barriers (T)				
MV Terminal	240	2.20	4.40	250	30	M8	3 up to 10
	185	2.75	4.40				
	150	3.52	5.50				
	120	3.52	5.50				
	95	3.52	5.50				
	≤70	4.40	6.60				
MVH Terminal	240	8.80	-	300/600	44.5	M10	3 up to 10

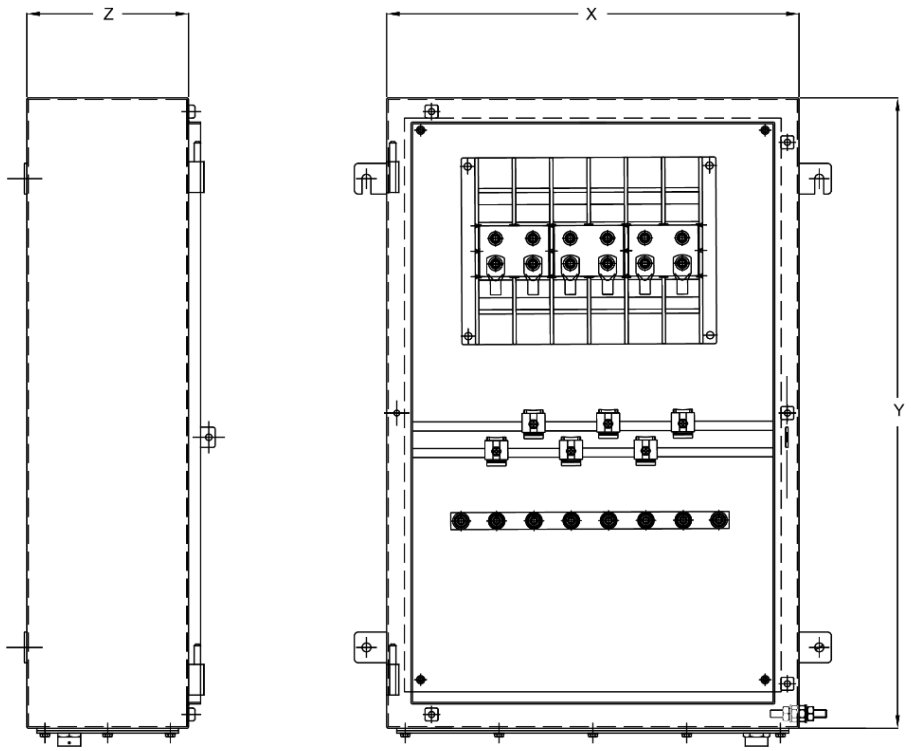
Enclosure Specifications

SX 4

Material	Marine grade 316L (1.404) stainless steel with silicone gasket and stainless steel fixings
Material Thickness	Enclosure/Door: 2mm Gland Plates: 3mm
Ingress Protection	IP66 (IP67/IP68 options available)
Impact Resistance	IK10
Earthing	Earth Stud fitted to Door and Gland Plates

Product Reference	Width (mm) X	Height (mm) Y	Depth (mm) Z
SX2	372	324	200/300
SX3	372	448	200/300
SX4	372	510	200/300
SX5	510	510	200/300
SX6	510	780	200/300
SX7	650	950	200/300
SX8	800	1250	200/300

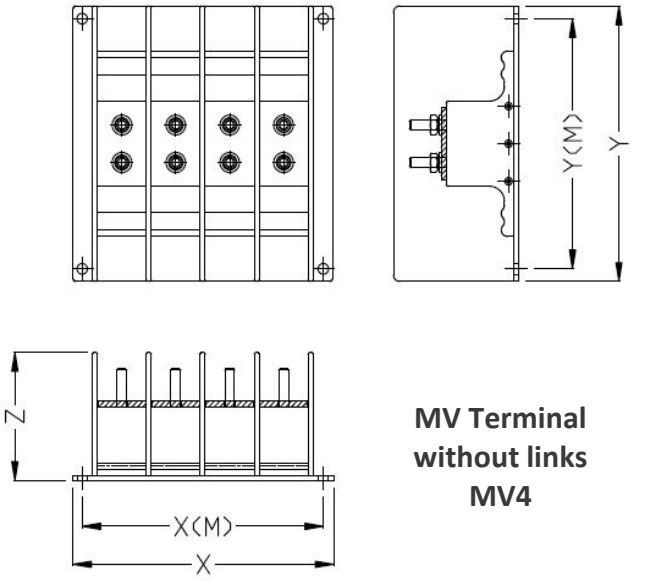
General Arrangement



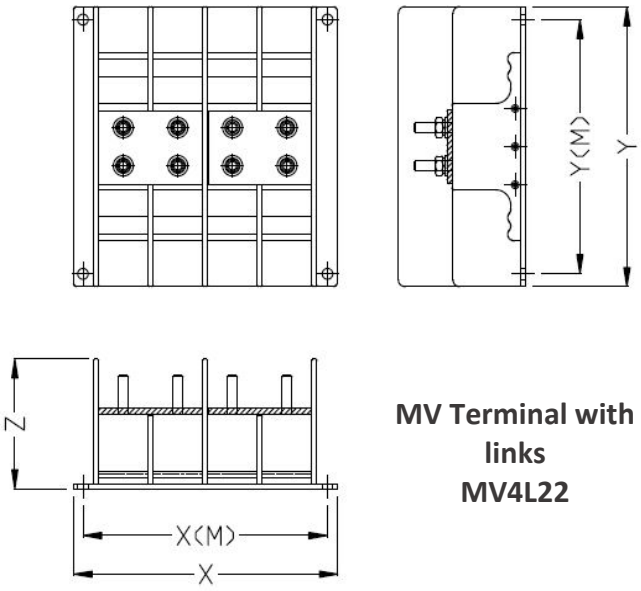
Drawing shows SX 6 with MVH6L23 Terminal

Enclosure Options
Anti-condensation heater
Breather Drain
Finishing Options: Electropolished, Epoxy powder coat, Wet paint /Client specific coatings
Cable Clamps
Earth Bar

MV Terminal Arrangements



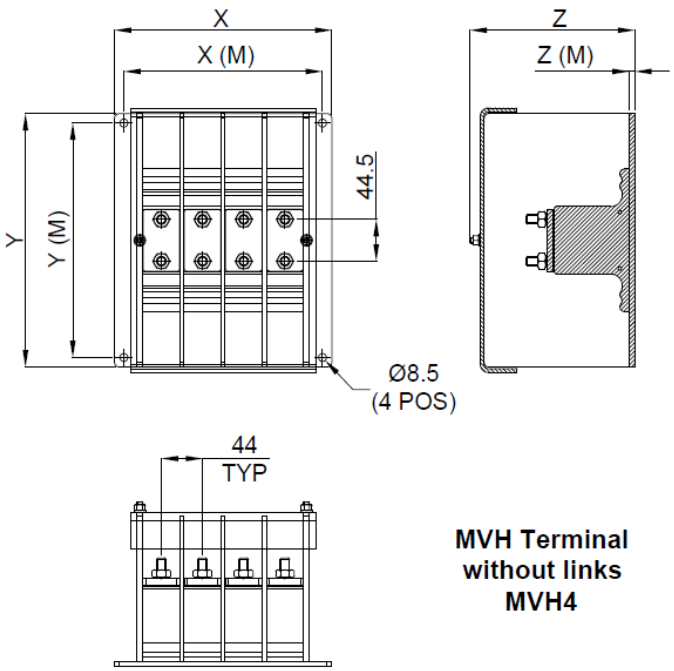
MV Terminal without links MV4



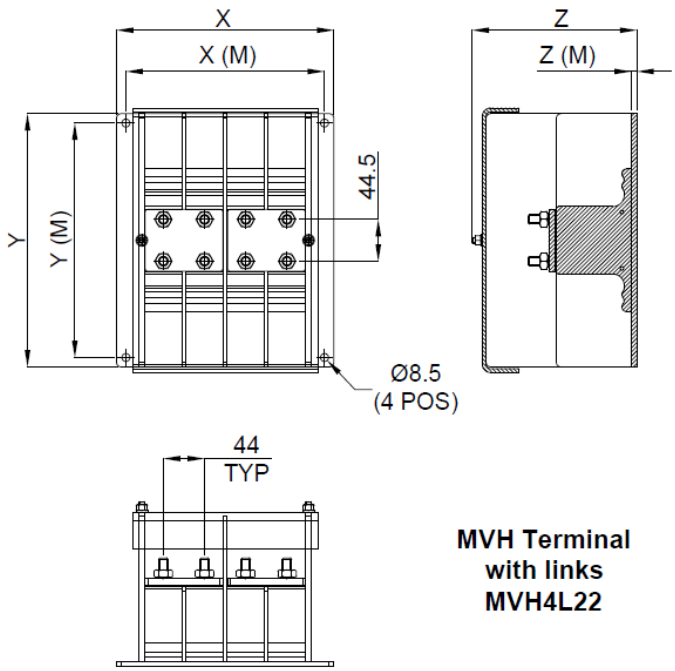
MV Terminal with links MV4L22

Product Reference	Width (mm)		Height (mm)		Depth Z (mm)	Weight (kg)
	X	X(M)	Y	Y(M)		
MV3	168	153	220	200	102	1.8
MV4	212	197	220	200	102	2.4
MV5	256	241	220	200	102	3.0
MV6	300	285	220	200	102	3.6
MV7	344	329	220	200	102	4.2
MV8	388	373	220	200	102	4.8
MV9	432	417	220	200	102	5.4
MV10	476	461	220	200	102	6.0
MV3T	168	153	220	200	114	1.9
MV4T	212	197	220	200	114	2.5
MV5T	256	241	220	200	114	3.1
MV6T	300	285	220	200	114	3.7
MV7T	344	329	220	200	114	4.3
MV8T	388	373	220	200	114	4.9
MV9T	432	417	220	200	114	5.5
MV10T	476	461	220	200	114	6.1

MVH Terminal Arrangements



MVH Terminal without links MVH4



MVH Terminal with links MVH4L22

Product Reference	Width (mm)		Height (mm)		Depth (mm)		Weight (kg)
	X	X(M)	Y	Y(M)	Z	Z(M)	
MVH3	188	168	270	250	176	4	2.6
MVH4	232	212	270	250	176	4	4.5
MVH5	276	256	270	250	176	4	5.4
MVH6	320	300	270	250	176	4	6.3
MVH7	364	344	270	250	176	4	7.2
MVH8	408	388	270	250	176	4	8.1
MVH9	452	437	270	250	178	6	10.0
MVH10	496	476	270	250	178	6	10.9

Options

Lxx	Linking: 1st x = link type (pairs, triple) 2nd x = Quantity of links required
M_{xx} (specify size)	Alternative crimp lug fixing stud size as required i.e. M8 or M12

Add the required option code to the product reference.
Example: TATEMVH6L23M8/300A – 6 way 8.8kV, 300A max terminal block linked in pairs, three links, M8 Lug fixing stud.