

HV SERIES

INCREASED SAFETY
HV Enclosures

HV Series: Increased Safety High Voltage Terminal Enclosures

FEATURES

- Type 316L Stainless steel cover clamps and screws
- Continuous piano hinge with removable stainless steel hinge pin
- Three porcelain insulators (1x1) or three mechanical connectors (2x2)
- One-piece, NEMA 4 / IP66 water-tight gasket
- Internal/external grounding provisions
- Welded-on mounting feet / tabs
- Ambient temperature range -40°C to +70°C
- Padlock hasp and staple

DESIGN OPTIONS

- Gland Plates (6" depths or greater) with continuous gasket
- Painted steel or stainless steel inner mounting panel
- Drilled entries / cut-outs
- Stopping plugs and breather / drain
- Terminal block assemblies and ground bars
- Cable glands
- Window kits
- Custom sizes
- Multiple coating options for additional corrosion resistance
- Cable clamps (1x1 only)
- Various insulator or connector configurations

MATERIAL

- Enclosure and gland plates Type 304 or 316L
- Cover clamps and screws are 316L
- NEMA 4 / IP66 water-tight gasket
- Box / cover constructed from 14 gauge (0.75) stainless steel with #3/#4 brush finish
- Gland plates constructed from 10 gauge (.1345) stainless steel with #3/#4 brush finish
- Silicone gasket
- Gland plate gasket constructed from 1/8" Bisco silicone with Acrylic PSA

Continuous Piano
Type Hinge



Certifications

POPULATED ENCLOSURE

Class I, Division 2, Groups A, B, C, and D

Class II, Division 2, Groups F and G

Class I, Zone 1, AEx e II (T5: Ta < +55°C)

(T4: Ta < +70°C)

ATEX Directive 94/9/EC

Class I, Zone 1, Exe II T6 (T5: Ta < +55°C)

(T4: Ta < +70°C)

Class I, Zone 1, Exe II T6 (T5: Ta < +55°C)

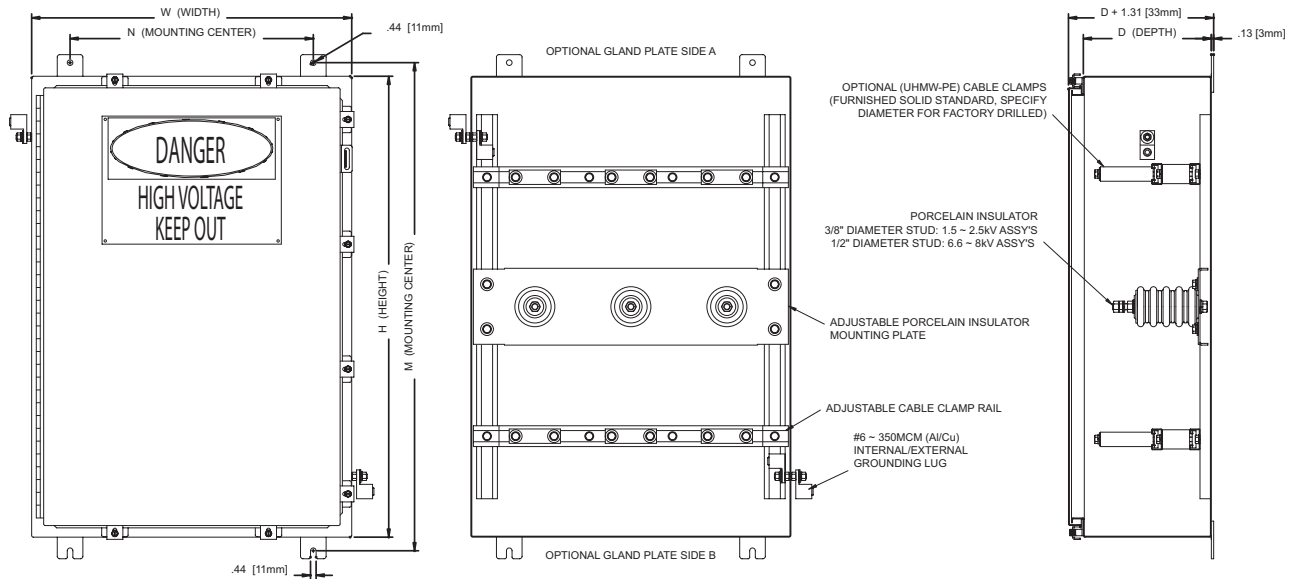
(T4: Ta < +70°C)

NEMA Type 4X, 12, and 13



1x1 Connection Series

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ENCLOSURE	VOLTAGE				AMPERAGE		
	H	W	D	M	N	MAX	MAX
HV4X6-241206	24.00	12.00	6.00	25.25	9.50	1.5kV	315
HV4X6-242006	24.00	20.00	6.00	25.25	14.00	1.5kV	315
HV4X6-201206	20.00	12.00	6.00	21.25	9.50	2.5kV	250
HV4X6-161606	16.00	16.00	6.00	17.25	10.00	2.5kV	200
HV4X6-241606	24.00	16.00	6.00	25.25	10.00	2.5kV	315
HV4X6-301606	30.00	16.00	6.00	31.25	10.00	2.5kV	400
HV4X6-202006	20.00	20.00	6.00	21.25	14.00	2.5kV	250
HV4X6-201407	20.00	14.00	7.00	21.25	8.00	2.5kV	250
HV4X6-251807	25.00	18.00	7.00	26.25	12.00	2.5kV	315
HV4X6-302207	30.00	22.00	7.00	31.25	16.00	2.5kV	400
HV4X6-362507	36.00	25.00	7.00	37.25	19.00	2.5kV	400
HV4X6-201610	20.00	16.00	10.00	21.25	10.00	6.6kV	250
HV4X6-302010	30.00	20.00	10.00	31.25	14.00	8kV	400
HV4X6-242010	24.00	20.00	10.00	25.25	14.00	8kV	315
HV4X6-302410	30.00	24.00	10.00	31.25	18.00	8kV	400
HV4X6-242410	24.00	24.00	10.00	25.25	18.00	8kV	315
HV4X6-362410	36.00	24.00	10.00	37.25	18.00	8kV	400
HV4X6-362510	36.00	25.00	10.00	37.25	19.00	8kV	500
HV4X6-603610	60.00	36.00	10.00	61.25	30.00	8kV	500
HV4X6-603616	60.00	36.00	16.00	61.25	30.00	11kV	500

MIN CONDUCTOR SIZE	AMPERAGE	
	mm ²	AWG/MCM
10	8	50
16	6	63
25	4	80
35	2	100
50	1/0	125
70	2/0	160
95	3/0	200
120	4/0	225
150	250	250
185	350	315
240	400	400
300	500	500

- NOTES**
1. For stainless steel 304 assemblies substitute HV4X6- prefix with HV4X- prefix.
 2. Please specify working voltage, amperage and conductor size when requesting quote.
 3. For conduit/cable entry spacing, wire bending and wire conversion guidelines, refer to inside back cover of this catalog.
 4. Gland plate options are available on the top and bottom sides of the box.

Add the following suffixes for gland plates:

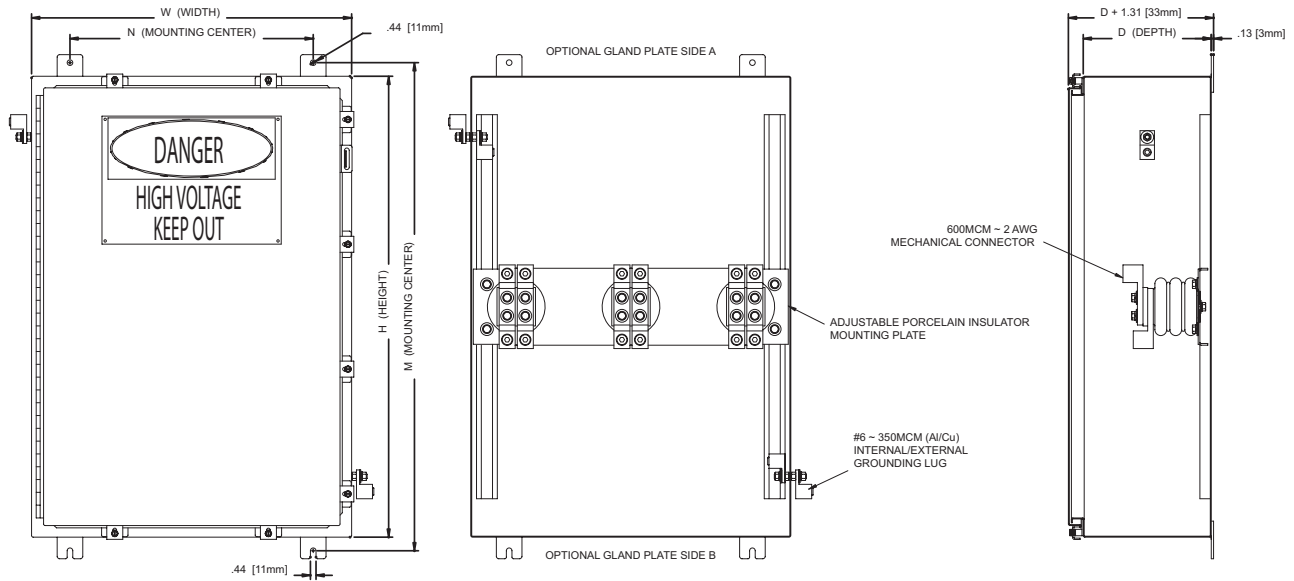
- A: Gland plate installed on TOP side of box
- B: Gland plate installed on BOTTOM side of box

For multiple gland plates omit dashes.
(i.e. HV4X6-161608-ABCD)

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2 x 2 Connection Series



ENCLOSURE	H	W	D	M	N	VOLTAGE	MAX AMPERAGE		MAX AMPERAGE	
						MAX	Phase	Ea. Conductor	Phase	Ea. Conductor
HV4X6-202008	20.00	20.00	8.00	21.25	14.00	5kV	500	250	500	250
HV4X6-242008	24.00	20.00	8.00	25.25	14.00	5kV	630	315	630	315
HV4X6-242408	24.00	24.00	8.00	25.25	18.00	5kV	630	315	630	315
HV4X6-202010	20.00	20.00	10.00	21.25	14.00	7.5kV	500	250	500	250
HV4X6-242010	24.00	20.00	10.00	25.25	14.00	7.5kV	630	315	630	315
HV4X6-302010	30.00	20.00	10.00	31.25	14.00	7.5kV	650	325	800	400
HV4X6-242410	24.00	24.00	10.00	25.25	18.00	7.5kV	630	315	630	315
HV4X6-302410	30.00	24.00	10.00	31.25	18.00	7.5kV	650	325	800	400
HV4X6-362410	36.00	24.00	10.00	37.25	18.00	7.5kV	650	325	800	400
HV4X6-362510	36.00	25.00	10.00	37.25	19.00	7.5kV	650	325	1000	500
HV4X6-603610	60.00	36.00	10.00	61.25	30.00	7.5kV	650	325	1000	500

MIN CONDUCTOR SIZE		AMPERAGE
mm ²	AWG/MCM	MAX
10	8	50
16	6	63
25	4	80
35	2	100
50	1/0	125
70	2/0	160
95	3/0	200
120	4/0	225
150	250	250
185	350	315
240	400	400
300	500	500

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For multiple gland plates omit dashes.
(i.e. HV4X6-161608-ABCD)