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Utility
Grade

Busduct System

LV & MV Metal-Enclosed Non-Segregated Phase Busduct

Our non-segregated phase busduct is designed for interconnecting groups of metal-enclosed or metal-clad switchgears, power transformers or other power equipments. By manufacturing the busduct but also the switchgear, we contribute to efficient site integration between components.

Features

- Custom engineered to suit the requirement of each installation.
- Copper conductors with electrical conductivity of 100% IACS
- Indoor or outdoor rated enclosures
- Straight sections available in any length
- Wide range of fittings available
- 2 in. x 1/4 in. copper ground bus
- Easy to install with its permissible busbar/ enclosure adjustment at each junction
- Bus joints bolted together with splice plates
- Enclosures are painted with baked powder coat paint system for a very durable finish

Safety by design

- Engineered and completely tested according to IEEE C37.23
- Removable covers for easy access when making joints and during inspections.
- Copper busbar with high quality Tin plating for 100% current rating during all service life.
- Bus insulation and easily removable boot covers for all outdoor busduct and MV indoor busduct

Standards

- IEEE C37.23
- CSA C22.2 no 27
- UL-857

Options available

- Aluminium conductors
- Solid Epoxy bus insulation and halogen/ chlorine free, easily removable, boot covers
- Copper busbar with premium silver plating (to differentiate from very thin flashing commonly miscalled silver plating)
- Certified outdoor enclosure with neoprene gasket and rubber washer hardware
- Heaters and heaters monitoring system
- Expansion joints
- Wall entrance seals
- Fire stops

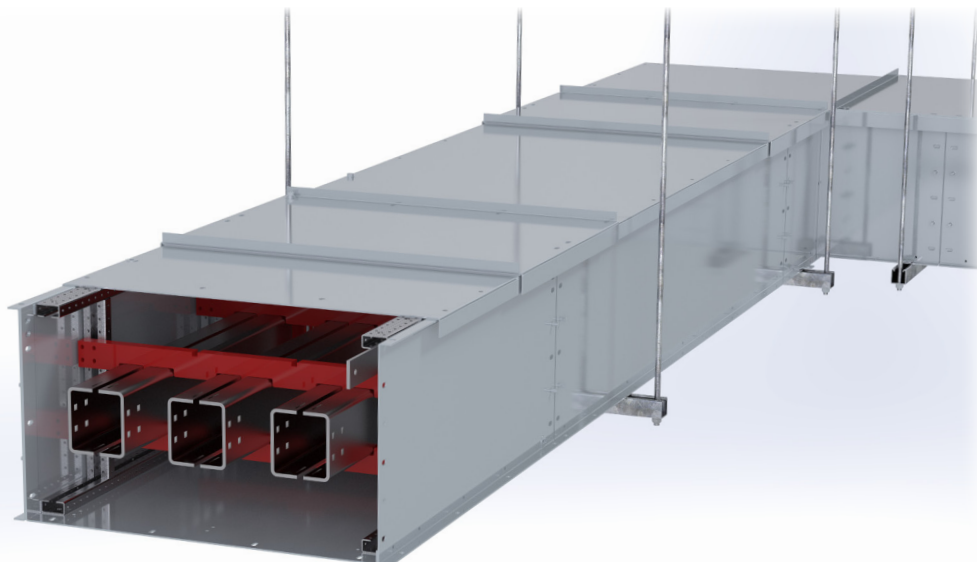
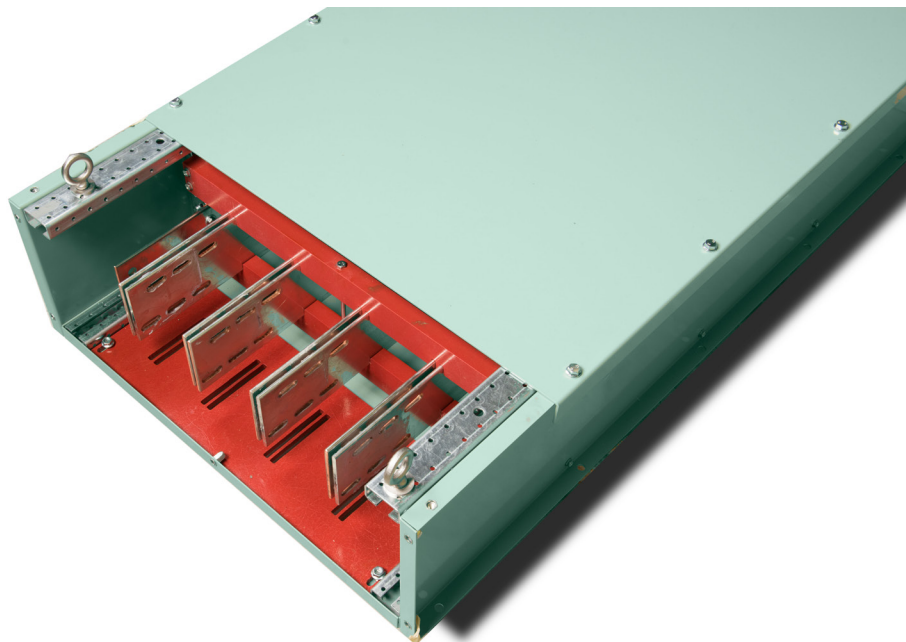


Image (right):

600 Vac, 3P 4W, 2000 A, 42 kA

Image (front side):

600 Vac, 3P 3W, 4000 A, 22 kA



General features of Busduct System:

Rated voltage

600 V

5 kV

15 kV

Test voltage at power frequency	kV 1 min	2.2	19	36
Impulse withstand voltage	kV	-	60	95
Rated frequency	Hz	50-60	50-60	50-60
Rated short-time withstand current	kA 1 s	22 - 42 - 65	25 - 31.5 - 40	
Peak current	kA	3 cy. : 50.6 - 96.6 - 149.5	10 cy. : 67.5 - 85 - 108	
Rated current	A	1200 - 1600 - 2000 - 3200 - 4000	1200 - 2000 - 3000	
Enclosure sizes (3P - 3W)	... - 2000 A	356 mm (14 in.) x 533 mm (21 in.)	403 mm (16 in.) x 781 mm (30.75 in.)	
	3000 A - ...	403 mm (16 in.) x 781 mm (30.75 in.)	403 mm (16 in.) x 781 mm (30.75 in.)	



Application Sectors:

- Data Center
- Infrastructure & Transportation
- Metal Industry
- Mining
- Oil & Gas
- Power Utilities