



Safe

Model XP3100EAA is a high voltage earthing device designed for underfloor mounting on rolling stock. Earthing is achieved with a manually operated micro-ohm switch mechanism that provides an added level of safety and protection during maintenance operations. The earth switch is equipped with several mechanical and electrical safety interlocks including auxiliary contacts to interface with other trainborne equipment and control systems.

Compliant

This model is configured with dual HV busses: bus A with five connection points rated for 1000 amps continuous and bus B with two connections points rated for 350 amps continuous. Maximum cable size is 150 sq mm entering through glands in the rear panel. The device also serves as a HV junction box for traction and auxiliary power.

Reliable

The earth switch is low-maintenance and is robustly constructed to ensure a 35-yr life. Product specific configuration, ratings, and mounting is flexible to suit many applications. The earth switch is fully type tested and has over 10,000,000 hours of service, with 0 failures.

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Technical Data

Description	Symbol	Unit	Value
Nominal Voltage	U_n	V _{dc}	1500V
Rated Operational Voltage	U_e	V _{dc}	1800
Rated Insulation Voltage	U_i	V _{dc}	2300
I ² t Let-through	t	A ² s	2,500,000 per bus
Rated Impulse Withstand Voltage	U_{imp}	kV	12
Over-voltage Category			OV3
Shock and Vibration			IEC61373, Category 1, Class A
Degree of Protection			IP66 to AS60529
Dimensions (L x H x W)		mm	550 x 400 x 325
Nominal Voltage		kg	48
Ambient Temperature Range	T_{amb}	°C	-4 to 45
Altitude		m	-50 to 1150

