

Connexion Box on Bogies 750VDC

ON BOARD FUSE BOX AND CONNEXION BOX

CONNEXION BOX RANGE 750VDC - 1500VDC - 2000VDC



For more than 50 years, Mersen have been providing the market with safe, reliable and longer life time connexion boxes. These devices offer high performances and robustness for heavy duty requirements with very limited maintenance.

Mersen offers one of the largest product ranges on the market and have a Connexion Box solution that will meet your unique needs. These connexion boxes use the same enclosures than the fuse boxes. Our connexion Box product line is rigorously engineered to meet your technical specifications and can see their dimensions be customised to your needs.

They can be installed vertically or horizontally on the roof or on the bogie.

They can include additional functions like Voltage or Current measurement system.

Materials used are

Polyester resin reinforced with 25% glass fiber, fire & smoke classification M1F1 under NF F 16 101/16 102, coated with GELCOAT, 300 to 400 µm thick, available in a variety of colors, fire & smoke classification M1F3 under NF F 16 101/16 102 or

Sheet Moulding Compound (SMC): Polyester resin reinforced with 25% glass fiber, dyed in the mass, fire & smoke classification M1F2 under NF F 16 101/16 102.

TECHNICAL DATA OVERVIEW

Voltage DC	750 VDC
Ampere Range (A)	250 ... 1400 A
Working Temperature	-20°C to +40°C

FEATURES & BENEFITS

- Single shape moulded box and cover which can be customised to your dimensions and have its number of entries and exits adapted
- Connexion Boxes can host 1, 2 or 3 different circuits with separate or common entries and exits
- IEC or UL Standard
- Voltage range 750VDC; 1500VDC; 2000VDC
- Current range up to 3500A DC per box
- Box Configuration can include additional functions:
 - Window
 - Energy Measurement (Volt, Amp, Watt)
- Water protection (IP) guarantee by cable glands
- Covers are equipped with captive screws
- Upon request, Fuse Boxes can be coloured for purely cosmetic reasons
- Resistance to strong mechanical impacts, rain, snow, wind, sun and detergents, as well as some vibration.
- Can be mounted on U-shape rails with Micaver insulators or screwed onto moulded blind-hole inserts

APPLICATIONS

- Connexion of Current Collector device power supply

STANDARDS

- IEC 61373 level 3
- M1F3 or M1F2 following NF F 16 101/16 102
- EN 45545



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

Connexion Box on Bogies 750VDC

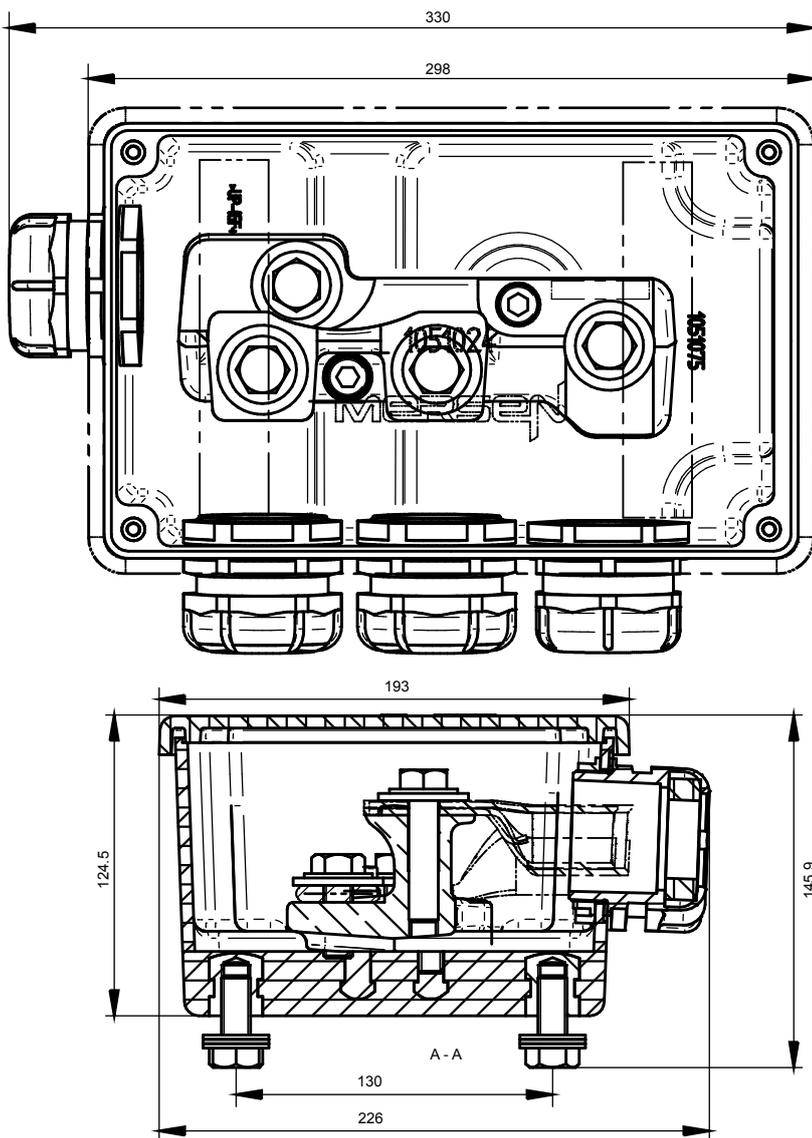
TECHNICAL DATA

Connexion_Box details

Mounting	Horizontal or Vertical
IP	55

DIMENSIONS

750VDC Connexion Box compact size + Cable Gland - DWG 1050598



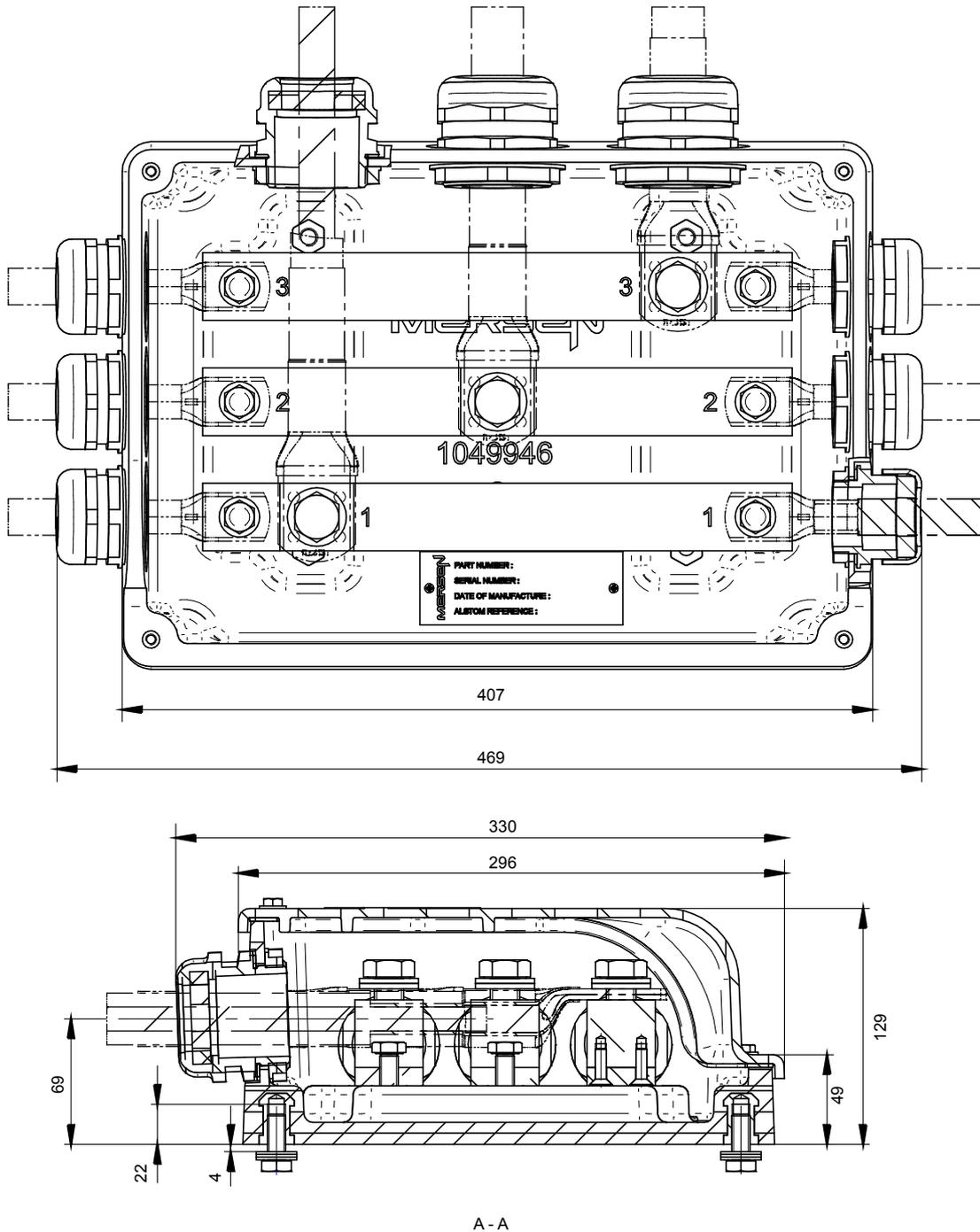
Dimensions in mm

Connexion Box on Bogies 750VDC

DIMENSIONS

750VDC Connexion Box compact size + Cable Gland - DWG 1049927

Dimensions in mm



Dimensions in mm

Dimensions in mm Dimensions in mm Dimensions in mm

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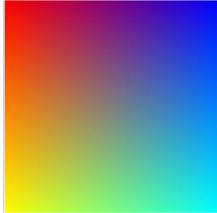
Connexion Box on Bogies 750VDC

FUNCTIONS



Volt and Amp measurement

Fuse Box can include Volt and Amp measurement devices.



Colour

Initial colour of our Fuseboxes is RAL 7010 but we can change it for a specified color requested by you as per the RAL chart (mass tainted minimum 200 boxes), for purely cosmetic reasons.



Training and technical support

All around the world, Mersen technical team can help you for technical support and can offer you customized training sessions for your Maintenance team.

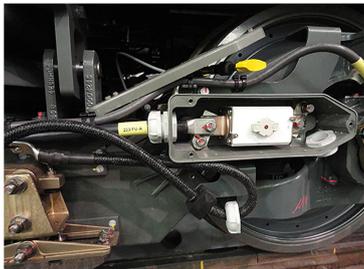


LCC; RAMS; Type tests

Mersen teams can supply Life Cycle Costs (LCC), Reliability Availability Maintainability Safety (RAMS), and Failure Mode and Effect Analysis (FMEA) studies. They can operate Qualification type tests.

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RELATED SERIES



Fuse Box on Bogies 750VDC

Haec igitur prima lex amicitiae sanciat, ut ab amicis honesta petamus, amicorum causa honesta faciamus, ne exspectemus quidem, dum rogemur; studium semper adsit, cunctatio absit; consilium vero dare audeamus libere. Plurimum in amicitia amicorum bene suadentium valeat .



Fuse Box on the Roof 1500VDC

Mersen offers one of the largest product ranges on the market and have a Fuse Box solution that will meet your unique needs.

Our Fuse Box product line is rigorously engineered to meet your technical specifications and can see their dimensions be customised to your needs.



Fuse Box 2000VDC



Protistor® size 120 gR 750VDC (IEC)

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ACCESSORIES



D1039235

Cable Glands

Catalog number	Item number	Package	Weight
Cable Gland ISO Diam 50	D1039235	10 pieces	50 g
Cable Gland ISO Diam 40	B1039233	10 pieces	50 g
Cable Gland ISO Diam 32	P127364	10 pieces	50 g



Y232597A

Traction fuses

Catalog number	Item number	Package	Weight
CC 7,5 GRC 122 TTF 0350	G220898A	1 piece	1.5 kg
CC 7,5 GRC 122 TTF 0400	C090438A	1 piece	1.5 kg
CC 7,5 GRC 122 D19SI 0315	M221915A	1 piece	1.6 kg
CC 7,5 GRC 122 D19SI 0400	A233864A	1 piece	1.6 kg
CC 7,5 GRC 123 TTF 0500	D090439A	1 piece	2 kg
CC 7,5 GRC 123 TTF 0600	H239207A	1 piece	2.2 kg
CC 7,5 GRC 123 TTF 0700	N1013714A	1 piece	2.3 kg
CC 7,5 GRC 123 D19SI 0500	C221216A	1 piece	2.3 kg
CC 7,5 GRC 123 D19SI 0600	K1018748A	1 piece	2.2 kg
CC 7,5 GRC 123 D19SI 0700	Y232597A	1 piece	2.3 kg
MICROSWTCH HOLDER SIZE 12X	Q1049941A	1 piece	0.15 kg