BARTEC TECHNOR

High Voltage / High Current terminal box

High Voltage / High Current terminal box

TNCCHVA

BARTEC TECHNOR

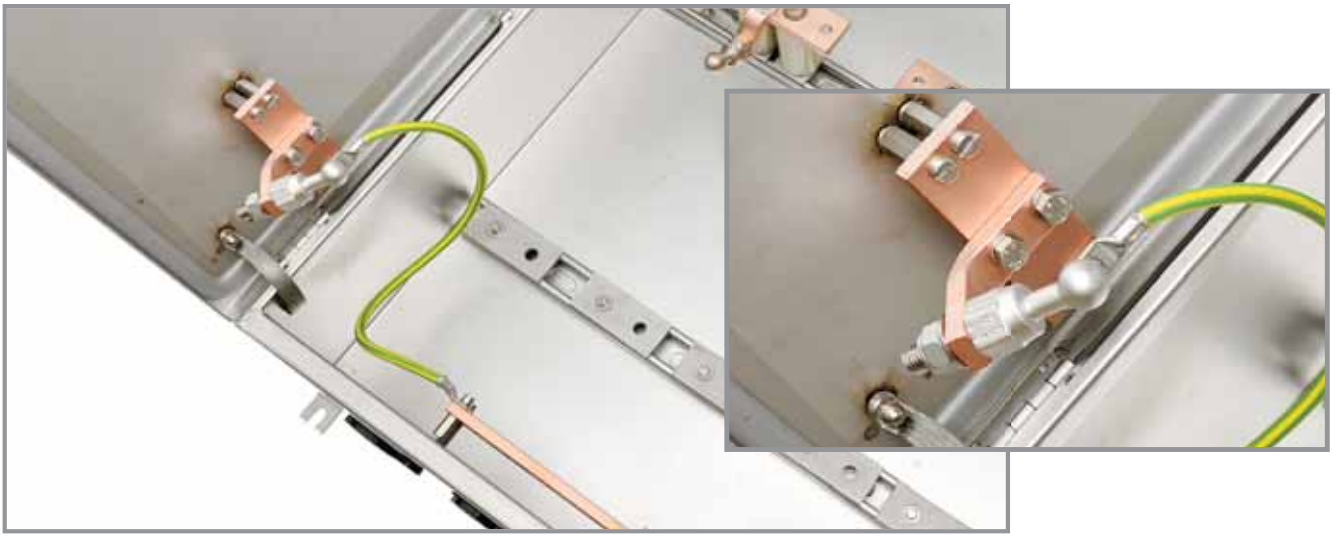
Typical applications

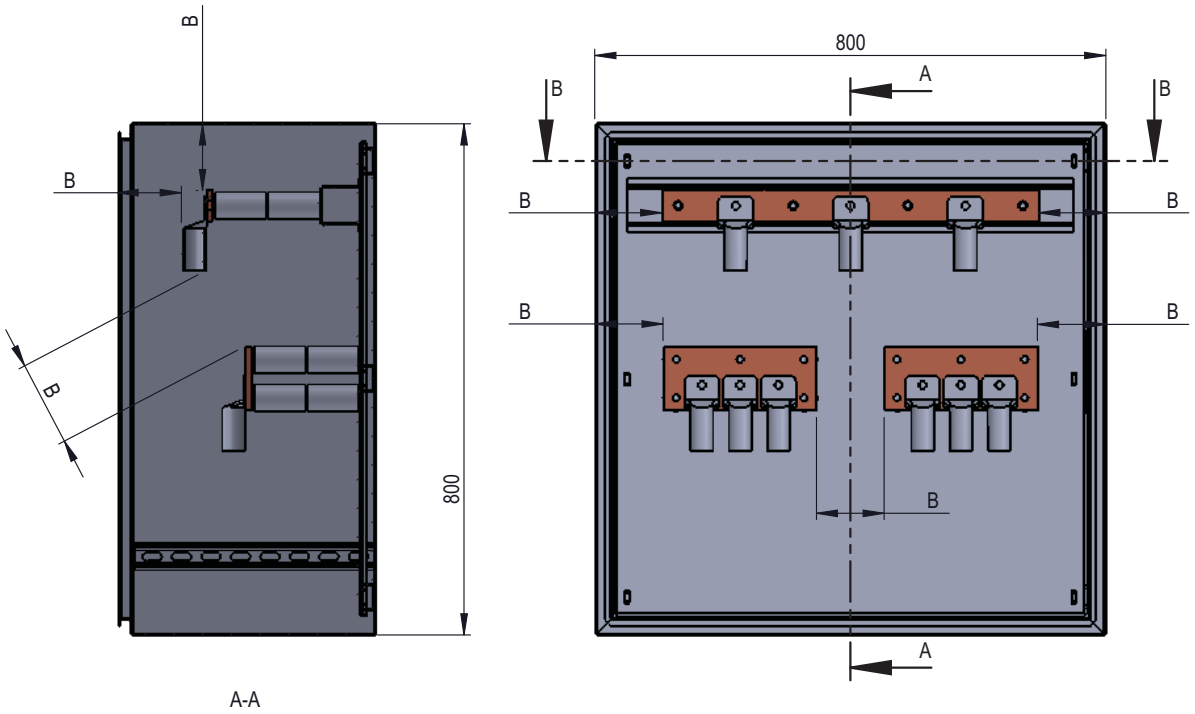
- High Voltage / High Current terminal box up to 10kV and/or 1500 Amp
- Top-drive terminal box
- Motor / Pump terminal box
- Subsea umbilical / Downhole Termination

Specifications

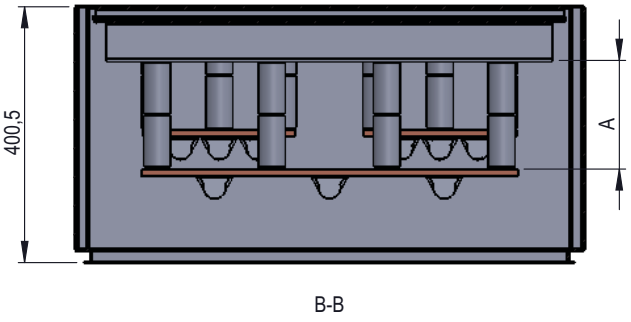
Material	Stainless steel 316L
IP Rating	IP66 (IP67 and IP68 upon request)
Temperature	-50°C to +40°C (T5/T4)
	-50°C to +60°C (T5/T4)
Approvals	
- Atex	DNV-2003-OSL-ATEX-0042
- Brazilian INMETRO	09/UL-BRCN-0001
- GOST	GOST Certificate
Standards	EN/IEC: 60079-0, 60079-7
Ex-Code	Ex e II T6/T5/T4
	Ex II 2 G and EPL Gb
Cover gasket	Silicone (operating temp. -50°C to +200°C)
Surface treatment	Acidized Pickling as standard
	Electropolished as an option
Material thickness	Min. 1,5 mm (depending on the box size)
Earthing	Internal earth bar/bracket
	External earth bracket
Drain plug	Optional
Gland Plate	Optional
MCT	Optional

BARTEC TECHNOR High Voltage terminal boxes are made to customer specific order up to 10kV.
Flexibility is ensured by the wide variety of door hinging, locking options, gland plates and single pole connectors.
Cable support arrangement available on demand.





A= Creepage
B= Clearance



TNCCHVA Dimension and Load Table

Voltage (see Note 1) V	Minimum creepage distance (A) Material group I	Minimum clearance (B)
2000	25	23
4000	50	44
6300	80	60
10000	125	100

NOTE 1 - Voltages shown are derived from IEC 60664-1 and are based on the rationalization of supply voltages given in table 3b if IEC 60664-1. When determining the required values for creepage and clearance, the voltage value in the table may be increased by a factor of 1,1 in order to recognize the range of rated voltages in common use.

Hazardous area information & terminology

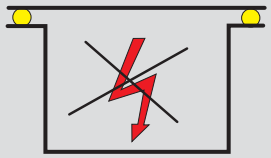
ATEX Directive

The ATEX Directive, derived from the French “AT mosphères EXplosibles” and formally known as 94/9/EC, contains the ESR (Essential Safety Requirements) to which electrical equipment and protective systems used within potentially explosive atmospheres must conform.

The new ATEX Directive currently in place within the European Union was made mandatory on 1st July 2003. Primarily intended for manufacturers of hazardous area equipment for use in the presence of flammable gases, vapours, fumes or dusts, the new directive requires a quality management system to be implemented.

Procedures for the design, manufacture and verification of products are to be approved by a notified body (i.e. DNV, NEMKO, etc.) and all equipment conforming to the new directive will feature CE and Ex Marking.

Zone Classification with the presence of GAS	
Zone 1 (Category 2)	An area in which explosive gas is likely to be present during normal operation of the plant.
Zone 2 (Category 3)	An area in which explosive gas is not continuously present, but may exist for a short period of time.

Applicable EX protection	
Ex e Protection for electrical components that do not spark under normal working conditions but where measures are applied to prevent high temperatures and the occurence of arcs and sparks internally.	

DOC.NO.: 57-CNC-5, REV. 01-13 • MAY 2013