

# Junction & terminal boxes ESI, ESP, ESA, ESX, GWR, TNCN

for Zone 1 and Zone 21



**BARTEC junction and terminal boxes are designed and approved for Zone 1 and 2 as well as Zone 21 and 22.**

They are particularly suitable for applications under extreme environmental conditions and they provide reliable protection under heavy loads. The housings are made of different materials to suit all needs. We offer preassembled junction & terminal boxes and custom-made solutions.

- Tailored solutions, use of right size / material of enclosure
- Long service life
- Certified to many standards

Description

When working in hazardous areas, the safety of personnel and equipment depends on compliance with the relevant safety regulations. The people in charge of installation and maintenance bear a special responsibility. It is essential that they have an exact knowledge of the applicable rules and regulations. The instructions provide a summary of the most important safety measures and must be read by everyone working with the product so that they will be familiar with the correct handling of the product. The instructions have to be kept for future reference and must be available throughout the expected life of the product.

Explosion protection

Marking ATEX	Type 07-3T**-****/**** Ⓜ II 2G Ex eb ia ib IIA, IIB or IIC T6, T5, T4 or T3 Gb Ⓜ II 2D Ex tb ia ib IIIA, IIIB or IIIC, T80 °C, T95 °C or T130 °C Db
Marking IECEx	Typ 07-3T**-****/**** Ex eb ia ib IIA, IIB, or IIC T6, T5, T4, or T3 Gb Ex tb ia ib IIIA, IIIB, or IIIC, T80 °C, T95 °C, or T130 °C Db
Certification	IBExU 12 ATEX 1099X IECEx IBE 12.0031X CSA: 2515401 NEPSI: GYJ20.1064 CCC: 2020322304001711 INMETRO: UL-BR 11.0118 PESO: A/P/HQ/UP/104/5577 (P470774) ECASEx: 23-06-75816/E23-05-076028/NB000 EAC: KZ 7500525.01.01.02096

For further informations and certificates, see [www.bartec.com](http://www.bartec.com)

Technical data

Material	Aluminium, glass-fibre reinforced polyester, stainless steel
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Electrical data

Ambient temperature	Dependent on installed components. Please pay attention to the information on the marking plate. -60 °C to max. +80 °C (-76 °F to max. +176 °F)
Temperature Classes	T6, T5, T4, T3 T80 °C, T95 °C, T130 °C
Voltage	max. 1000 V *
Nominal current	max. 690 A *
Maximal cross-section	max. 400 mm² *

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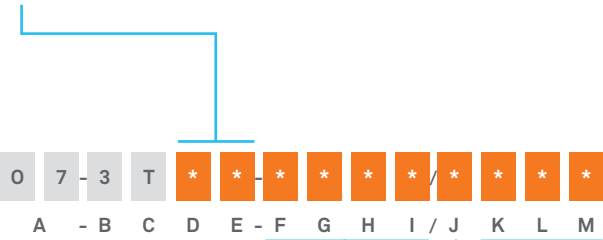
\* The rated values are maximum values. The respective built-in components cause the actual electrical values. The manufacturer specified the final rated values, within the limits of the maximum values, and depending on the supply conditions, mode of operation, equipment protection level and so on.  
The circuits must be interconnected in accordance with the requirements of the current standard IEC 60079-14. For intrinsically safe circuits, the requirements of IEC 60079-25 also apply.



Configuration data for Junction & terminal boxes

Enclosure type / material					
DE	Type	Enclosure type	Ex protection	Material	Max. operating temperature
03	Empty enclosure	ESP, 07-5185	Ex e	Polyester black	Silicone -55 °C to +100 °C
05		ESP, 07-5185	Ex i		
06		ESP, 07-5184	Ex e	Polyester grey	EPDM -35 °C to +90 °C
07		ESP, 07-5184	Ex i		
08	Empty cabinet w. door	AX 920*	Ex e	Polyester black	Rittal: -40 °C to +70 °C
09			Ex i		
90	Empty enclosure with lid	GWR	Ex e	Polyester, black	-50 °C to +100 °C
91	Empty enclosure with lid	ESA	Ex e	Aluminum	-60 °C to +180 °C (+160 °C with ceramic terminals)
30	Empty enclosure with flange and cover	ESI, 07-56A1	Ex e	Stainless steel 304 - V2 A	Silicone: -40 °C to +100 °C EPDM: -20 °C to +100 °C RAKU PUR: -40 °C to +80 °C
31		ESI, 07-56A1	Ex i		
32	Empty enclosure with flange and cover	ESI, 07-56B1	Ex e	Stainless steel 316L - V4 A	
33		ESI, 07-56B1	Ex i		
34	Empty enclosure with flange and hinged door	ESI, 07-56C1	Ex e	Stainless steel 304 - V2 A	
35		ESI, 07-56C1	Ex i		
36	Empty enclosure with flange and hinged door	ESI, 07-56D1	Ex e	Stainless steel 316L – V4 A	
37		ESI, 07-56D1	Ex i		
92	Empty enclosure with flange and cover	TNCN	Ex e	Stainless steel 316L – V4 A	Silicone: -50 °C to +200 °C
93		TNCN	Ex i	Stainless steel 316L – V4 A	
94	Empty cabinet with flange and hinged door	TNCN	Ex e	Stainless steel 316L – V4 A	
95		TNCN	Ex i	Stainless steel 316L – V4 A	
98	Empty enclosure with cover	ESX	Ex e	Stainless steel 316L – V4 A	-60 °C to +180 °C (+160 °C with ceramic terminals)
99	Empty enclosure with hinged door	ESX	Ex e	Stainless steel 316L – V4 A	

\*\* more Enclosures available on request



Character	Character for:	Variant:	Description
FGHI	Enclosure size code		Size code defined during engineering
J	Country identification	A, B, C, ...	Production location identification code
KLM	Sequence number starting with 001		