

BVW 2800 Earth Fault Relay Ident Nr. HBVW400011R0001 B+Z Art. Nr. 13 According to standard EN 50155

Electronic devices in rolling stock



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Application / function

Application

This device is typically used as a current relay for monitoring electrical contact to ground potential.

Function : Used as safety device in rolling stock.

Important: The device may not be mounted close to strong magnetic fields!

Technical data

Type designation:

Standards

The product is manufactured in accordance with the following standards:

BVW 2800

ISO 9001:2015 Electronic equipment used on rolling stock: EN50155 Electromagnetic compatibility: EN50121-3-2 Isolation: EN50124-1 Shock and vibration: EN50155/EN61373 Fire protection according to EN 45545

The standards applicable to this product are dependent on the version available at the time of development.

Electrical Data

Inputs

Sealed contact :

А

Current : min. 100 . . . 150 . . . max. 300mA / AC / DC Application note : The current relay always must be operated with a dropping resistor by reason of the internal Zener diode

Output contact load

at 36V max. 50mA, contact resistance <250m Ω (reed contact)

Electrical Protective measurement

U, V	\leftrightarrow	Ground :	Tracking distance see simplified drawing, casting resin = Araldit, case = thermoplast,		
			Air distance depending on mounting place.		
U, V	\leftrightarrow	A, B :	Test voltage = 6kV/50 or 60Hz/1minute, operating voltage about 2kV		

U, V \leftrightarrow A, B : Test voltage = 6kV/50 or 60Hz/1minute, operating voltage
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20V~ to 4kV~, tracking distance 7mm, contact current max. 3A, max. 50W В \leftrightarrow

The equipment is not allowed to be mounted close by strong magnetic fields (transformer, current bus)

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Mechanical data

• Dimensions

 Dimension :
 80 x 80 x 70mm

 Weight :
 ca. 900g

Materials

Housing : Casting resin : Plastic Special Resin

• Mounting

Fixing :

With M4 screws

Contacts

4 Faston 6,3 mm

Labels

Tagging of the fastons:

U, V = Input

A, B = Output contact

Other conditions

Climatic conditions

Environment temperature: -40°C bis +75°C Class T3 Humidity : max 90% rF, at30°C, non condensing.

• Disposal

According to local regulations



