



**ALPAR  
NEW**



## **Fuse bases – PBWA indoor series**

PBWA fuse bases are specifically designed for the protection of primary circuits of voltage transformers in medium voltage networks, offering a reliable and fully compatible alternative to existing solutions on the market.

# Why PBWA?

## Performance driven by quality

### Key advantages and design features:



#### **Top-class insulation**

The use of modern epoxy insulators (type OW3.bp2) ensures excellent dielectric performance and mechanical stability of the structure.



#### **Certified quality**

The product has successfully passed full type testing at the Institute of Power Engineering in Warsaw, confirming compliance with the latest PN-EN IEC 60282-1:2021 standard.



#### **Full compatibility with standard-compliant fuse-links**

Designed for seamless use with WBP and HH-VL fuse links, enabling easy replacement in existing installations.



#### **Space-saving design**

Compact dimensions and low weight allow for easy installation, even in switchgear with limited space.



#### **Durable frame construction**

The PBWA frame is made of steel and powder-coated in RAL 6033, providing superior corrosion resistance compared to electrogalvanized alternatives.



#### **Made in Poland**

Alpar is currently the only Polish manufacturer of this fuse base type, ensuring local technical support and short delivery times.

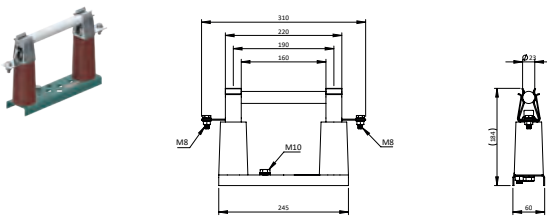


#### **Easy installation in MV switchgear**

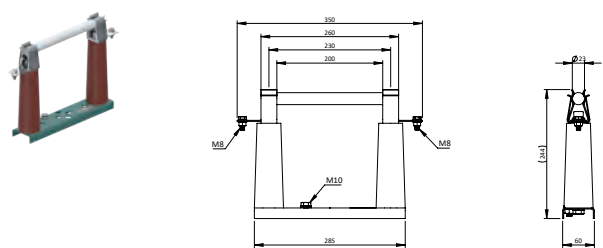
Standard terminals designed for M8 bolts enable fast and reliable installation in medium-voltage switchgear.

# Technical data

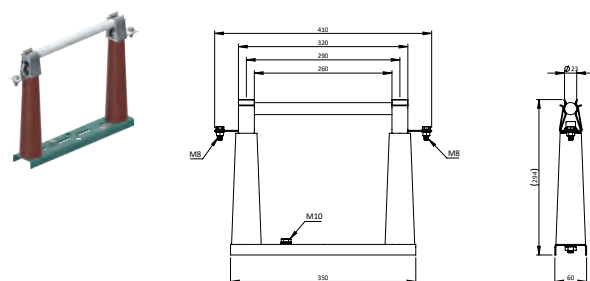
**PBWA-6**



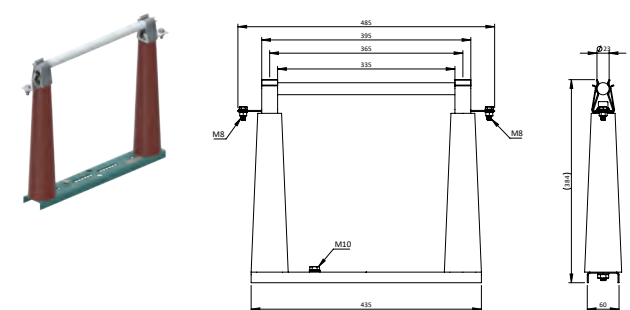
**PBWA-10**



**PBWA-20**



**PBWA-30**



Parameter / Type	PBWA-6	PBWA-10	PBWA-20	PBWA-30
Rated voltage	7,2 kV	12 kV	24 kV	36 kV
Fuse length (L)	160 mm	200 mm	260 mm	335 mm
Base weight	1.93 kg	2.82 kg	3.14 kg	4.72 kg
Rated breaking current ( $I_b$ )	63 kA	63 kA	63 kA	40 kA
Mounting distance	220 mm	260 mm	320 mm	395 mm

## Cross-reference

ABB	PBMP-6, PBMP-10, PBMP-20, PBMP-30			
EFEN (Fuse-Link)	PB 7.2	PB 12	PB 24	PB 36

## Applications

### **Voltage Transformer Protection**

PBWA fuse bases protect primary circuits of voltage transformers against internal faults and short circuits. When used with low-rated fuse-links, they provide rapid isolation of a faulty transformer from the switchgear busbars.

### **Use in MV metering panels**

Used in transformer and metering compartments of indoor medium-voltage switchgear. The design is adapted for WBP (ABB) and HH-VL WBP (EFEN) fuse-links commonly used in MV systems.

### **Visible isolation gap for safe maintenance**

Removal of the fuse-link creates a clearly visible isolation gap in the transformer circuit, ensuring safe conditions for maintenance and testing.

### **High short-circuit withstand capability**

The robust design ensures high short-circuit withstand capability and reliable performance under demanding operating conditions in MV switchgear.

## Installation details

Terminals designed for M8 bolts enable easy integration with existing busbar systems. The base design is optimized for compatibility with WBP (ABB) and HH-VL (EFEN) fuse-links. Once the fuse-link is removed, the base provides a visible and safe isolating gap, essential for transformer maintenance and service work.

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