

# Electromagnet 200kg, 2000N, 80x80mm

## Product codes:

Reference: AM7657

EAN13: -

UPC: 85059021

## Product features:

Thread: M8

Holding force: 2 000 N

Waterproof grade: IP67



## Product attributes:

Tension: 12 V DC, 24 V DC

## Product description:

The fully encapsulated WF-P80/80 solenoid is designed for applications where high holding force is required in a compact design and mechanical protection of the winding. It is particularly suitable for industrial fixtures, clamping systems and handling equipment with DC power supply.

## Technical specifications

- Model: WF-P80/80
- Design: fully encapsulated
- Power supply: DC 24 V or 12V (depending on variant)
- Holding force: 200 kg
- Dimension: D80 x 80 mm
- Mounting hole: M8
- Power consumption: 27.4 W
- Power cable length: 250 mm
- Limit temperature: 103 °C
- Price: for 1 pc.

## Functions and features

- The holding force is determined at a temperature of 20 °C in contact
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with a mild structural steel material with a polished surface under tension perpendicular to the surface (1 kg  $\approx$  10 N).

- The minimum anchor thickness is given in the table (\*).
- In exceptional cases, the difference in holding force may be -10% of the stated values.
- Encapsulation increases resistance to common industrial environments and reduces the risk of mechanical damage to the windings.

#### **Ideal for**

- Clamping and positioning fixtures
- Handling technology and lifting applications with ferromagnetic parts
- Industrial automation
- Testing and measuring workplace

#### **Package contents**

- Encapsulated solenoid WF-P80/80 with 250 mm supply cable

#### **Why choose this product?**

- High holding force with DC 24 V or 12 V power supply
- Compact size of 80 x 80 mm for easy integration into equipment
- Encapsulated design suitable for industrial use
- Defined conditions for measuring holding force for technical assessment of the application

#### **Installation and operating instructions**

- To achieve the declared holding force, ensure a clean, flat and polished contact with the ferromagnetic material and minimize the air gap.
- When designing the mechanics, consider the load direction perpendicular to the surface and the required anchor thickness.
- Ensure adequate DC 24 V power supply and dimension the wires with regard to the power consumption.
- During operation, respect the limit temperature of 103 °C and ensure conditions for heat dissipation according to the device design.

#### **Safety notice**

- The device is designed for direct voltage, perform installation with the power supply disconnected.
  - The solenoid may reach elevated temperatures during operation; avoid contact with flammable materials and ensure adequate cooling in the structure.
  - When power is released, there may be an immediate loss of holding
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force; in applications with a risk of the load falling, use appropriate mechanical protection.

**Product gallery:**

