

# Electromagnet 200kg, 2000N, 120x50x40mm

## Product codes:

Reference: AM1763

EAN13: -

UPC: 85059021

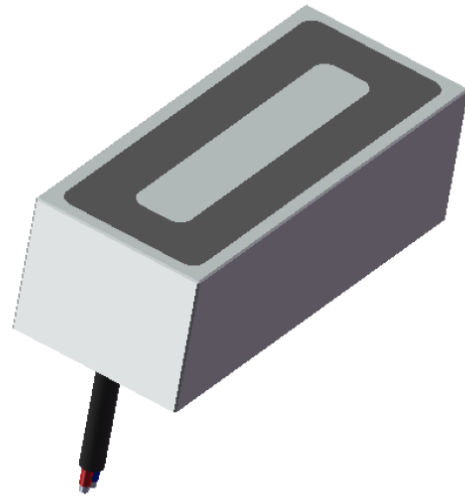
## Product features:

Thread: M8

Holding force: 2 000 N

Waterproof grade: IP65

Type: Magnetizing



## Product attributes:

Tension: 12 V DC, 24 V DC

## Product description:

The holding solenoid is designed for electrical holding of ferromagnetic parts in industrial, automation and security applications. The design corresponds to the use as a holding solenoid for firm attraction and holding of a metal counterpart when powered. The product is suitable where compact electromagnetic holding is required with the possibility of continuous operation with the appropriate power supply and operating mode.

## Technical specifications

- Product type: holding solenoid
  - Body dimensions: 120 x 50 x 40 mm
  - Nominal holding force: 2000 N
  - Mounting holes: 2x M8, 70 mm spacing
  - Outlet length: 500 mm
  - Weight: 1400g
  - Insulation class: B, 130 °C
  - Hi-pot test: AC 1000 V, 50/60 Hz, 2 s
  - Duty cycle: 100% or 50%
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- At 100% duty cycle: power consumption 25 W, holding force 1500 N
- At 50% duty cycle: power consumption 50 W, holding force 2000 N
- Versions: 12 V DC / 5.8  $\Omega$ , 24 V DC / 23  $\Omega$
- Voltage at 50% duty cycle: 17 V DC for 12 V variant, 34 V DC for 24 V variant

### **Functions and features**

- The electromagnet is designed to attract and hold a metal counterpart while powered.
- The block design with a flat holding surface is suitable for fixed mounting.
- The power supply is provided via a pair of wires.
- The design supports continuous operation at 100% duty cycle.
- Higher holding force is achievable with a limited duty cycle of 50%.
- For proper function, a clean, flat and magnetically conductive mating surface is required.
- The counter piece should have a larger contact area than the holding surface of the electromagnet.
- To achieve proper function, the material to be held should be over 10 mm thick.

### **Ideal for**

- industrial fixtures and clamping systems
- automation equipment
- electromagnetic locks and blockages
- positioning and fixation mechanisms
- mechanical and manufacturing applications requiring electrically controlled holding of a metal part

### **Package contents**

- 1x holding electromagnet with lead wires

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

- Specifically defined mechanical dimensions are available for assembly design.
- The product is available in 12 V DC and 24 V DC versions.
- The manufacturer provides parameters for both continuous and limited duty cycles.
- The assembly is done using a pair of M8 threaded holes.
- The insulation class and dielectric test are specified by the manufacturer.

### **Installation and operating instructions**

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- Install on a solid surface with the retaining surface positioned precisely.
- The mating surface of the counterpiece must be flat, clean and free of impurities that reduce the holding force.
- When designing the power supply, take into account the coil variant and the corresponding duty cycle.
- When operating at higher power, observe the duty cycle limitations.
- Professional installation is particularly suitable for integration into electrical and security systems.

### Safety notice

- Incorrect supply voltage or incorrect wiring can lead to overheating, coil damage or short circuit.
- The power supply must be disconnected during installation and service.
- The solenoid heats up during operation; ensure adequate operating conditions and do not exceed the specified duty cycle.
- In the event of a power failure, the holding force will be lost, which must be taken into account in the design of the device.
- The product creates a strong attraction of metal objects; during assembly and operation, it is necessary to prevent pinching of fingers and uncontrolled attraction of ferromagnetic parts.

### Product gallery:

