

MAG V - (VRT)

AC/DC Converter for Electromagnet loads



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> VRT AC/DC Converters

MAG V- (VRT) AC/DC converter is a device designed to supply electromagnets loads in an appropriate and controlled mode. This device consists of two three-phase rectifier bridges that convert alternative current from the mains into direct current, appropriated for electromagnets loads.

MAG V- (VRT) AC/DC Converters stand out for their ability to adjust the demagnetization time for fine control of the electromagnet. The robustness allows it to operate in dirty and challenging environments, while it's simple and safe operation requires only one control contact.

In addition, it offers flexibility when customizing output currents and voltages (50 to 300A), making it an ideal choice for supplying reliable and controlled power to electromagnets in various industrial applications.

> Demagnetization by reversing the polarity of the electric current

Its operating principle is based on controlling the magnetization and demagnetization of the electromagnet, with the first rectifier bridge having the purpose of magnetizing the electromagnet and the second of demagnetizing it.

Demagnetization takes place by reversing the direction of the electric current and using discharge resistors.

The demagnetization time can be set between 0,4 to 10 seconds.

> General Information

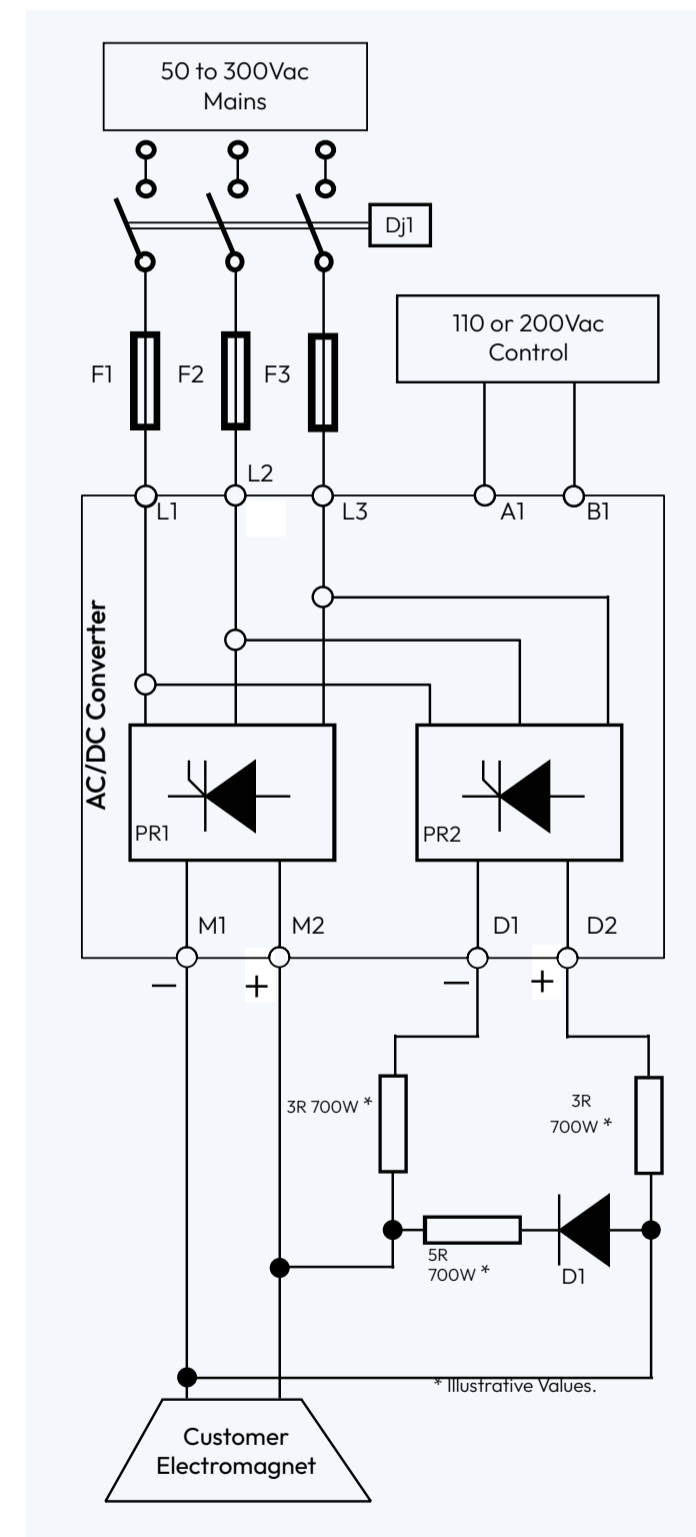
| | |
|------------------------------|-----------------------------------|
| Nominal Currents | 50A to 300A |
| Supply | Complete solution |
| Maximum Input Voltage | 300Vac |
| Control Voltage | 110 or 220Vac |
| Fan Voltage | 110 or 220Vac |
| Output VCC Voltage | 35% higher than the input voltage |
| Lifespan | More than 200 mi. of maneuvers |
| Demagnetization Time | 0,4 to 10 seconds |

> Main Advantages

- High number of maneuvers per hour.
- Very high durability.
- Doesn't require maintenance.
- Doesn't generate noise for PLC or PC.
- Doesn't cause vibrations to other components in the panel.
- Doesn't generate overvoltages on shutdown.
- Silent operation.
- Low power consumption, compatible with PLC output (approximately 15mA).
- Small size and takes up space on the panel.
- The control module is Plug-in type, and is the same for the entire range of converter currents from 50 to 300A.
- The trip modules are the same for the entire range of converter currents from 50 to 300A.

> Mechanical Features

- Base and Side: Steel with highly resistant electrostatic paint.
- Terminal Blocks: High-impact ABS plastic.
- Control Module: High-impact ABS plastic.
- Trigger Module: High-impact ABS plastic.
- Power Connectors: Electrolytic copper busbar.



> Application

The converter can be supplied loose with just the unit or mounted in a panel. When mounted in a panel, it is supplied with the circuit breaker, diode, fuses and resistors shown in the wiring diagram.

| Electromagnet Converter - Available Models | | |
|--|--|--------------------|
| Complete with: B* Command Voltage M** No.of Auxiliary Contacts D* Fan Voltage | Complete the converter model with the informations below: | |
| VRT-50-B*-M**-D0-D | Auxiliary Contacts | |
| VRT-75-B*-M**-D* | M00 = 0 NA+0 NF | M11 = 1 NA+1 NF |
| VRT-100-B*-M**-D* | 2 NA | 2 NF |
| VRT-125-B*-M**-D* | Command Voltage | Fan Voltage |
| VRT-150-B*-M**D* | B4 = 110Vac | D1 = 110Vac |
| VRT-200-B*-M**D* | B5 = 220Vac | D2 = 220Vac |
| VRT-250-B*-M**D* | MAXIMUM INPUT VOLTAGE = 300Vac | |
| VRT-300-B*-M**D* | | |

> Get to know CM-VRT

Complete AC / DC Converter System for Electromagnet

Equipment designed to supply electrical energy to electromagnets in an appropriate and controlled mode. It consists of two three-phase rectifier bridges that convert alternating current energy from the mains into direct current energy.



> Features



Converter overload



Short-circuit in the converter



Fuse blow indication



Emergency button

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ACESSE O NOSSO SITE E CONHEÇA MAIS SOBRE NOSSAS SOLUÇÕES.

Since 1976, Varixx has been developing high-tech products. Its know-how in power electronics has always enabled it to offer a wide range of products that have become known for their innovation, long service life and quality. As the holder of numerous technological patents, Varixx strives to introduce functional and intelligent concepts to the domestic market and worldwide.

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