

RA2 TIMED RECTIFIER MANUAL

General description:

The purpose of the timed rectifier is to automatically switch the supply voltage of the over-excited brakes, to minimize their power consumption and heating.

The first second after switching on the device will provide a direct voltage resulting from the full wave rectification of the alternating supply voltage. At the end of this first second, the device will supply the direct voltage resulting from the half-wave rectification of the alternating power supply voltage.



Fig. 1 Appearance of the rectifier



Fig. 2 Supply voltage vs output voltage

Safety instructions:

 CAUTION: Danger of electrocution. Switch of the power supply before carrying out the operations described in this manual.

 Image: Cauchy carrying out the operations described in this manual.

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 Image: Cauchy carrying out the operation of the power supply before carrying out the operation to brakes specifically designed to work with overexcitation. Its connection to brakes whose windings do not allow over-excitation can cause the brake to malfunction.

 Image: Cauchy carrying out the operation covered by this manual.

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<u>Main data:</u>

Maximum rated input AC voltage: $U_{IN} = 270 \pm 10\% V_{AC}$ Maximum rated output: $U_{OUT} = 0.89 \cdot U_{IN} / 0.45 \cdot U_{IN}$ Maximum rated output DC current: $I_{OUT} = 3.0 A_{DC}$ Screw terminals 4 mm² (7.5 mm pin spacing) Switch time: 1 s Max. surge forward current, t = 10 ms, sine: 110 A Max. repetitive reverse voltage, guarantee by manufacturer: 1800 V_{AC} Rated temperature: 0°C ... + 70°C Ambient temperature: maximal +85°C Storage temperature: -40°C ... +75°C Electrical protection: Varistor overvoltage protection. Housing material: PA 6.6 Protection factor: IP 20 Weight: approx. 35 g





Connection of the rectifier:

Tools:



Wiring:



RA2M-EN-05



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