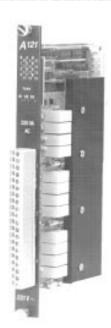


DIGITAL OUTPUT MODULES, A121 / O125 - 12 TRIAC OUTPUTS

PLC SYSTEMS
MULTICONTROL COMPONENTS



A121 / O125

- 12 Digital Triac Outputs in Three Groups
- Switching Voltage 220 VAC / 120 VAC
- Switching Current Max. 2 A per Output
- Galvanic Isolation between the Groups and to the PLC
- No External Protection Circuit Required

SLOTS

The A121 and O125 output modules can be operated in all slots of the MULTI, MIDI and M264 racks.

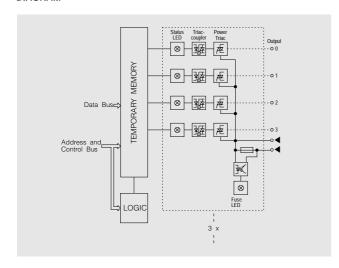
| Rack | Slot | 0 1 2 3 4 5 6 7 8 9 A B C D E F |
|---|------|---------------------------------|
| MULTI Base Rack MULTI Expansion Rack MIDI M264 | | |

ORDER DATA

Digital Output Module, 12 Triac Outputs, Three Galvanically Isolated Groups, LED Status Displays

ECA121-0 Switching Voltage 220 VAC ECO125-0 Switching Voltage 120 VAC

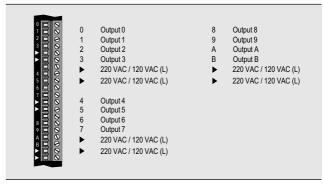
DIAGRAM



When using power supply modules with extended diagnostic functions, slot F in the third expansion rack may not be used.

| TECHNICAL DATA | A121 | 0125 | |
|--|---|--|--|
| Number of Outputs Total In Groups of | | 12 4 | |
| Туре | | Triac | |
| Galvanic Isolation Output - PLC Group - Group Output - Output | | YES YES NO | |
| Switching Voltage Nominal Minimal Maximal | 220 VAC 90 VAC 250 VAC | 120 VAC 90 VAC 144 VAC | |
| Switching Voltage Frequency | 47 to 63 Hz | | |
| Switching Current | See Section "Switching Current" | | |
| Maximum Switching Current per Group | | 3 A ²⁾ | |
| Leakage Current | Max. 7 mA (w/load, 50 Hz, 220 VAC) 3) | Max. 5 mA (w/load, 60 Hz, 120 VAC) 3) | |
| Maximum Power-on Current (Non-repeating) For 100 msec For 10 msec | 12 A 25 A | 7 A 12 A | |
| Minimum Holding Current At 0 °C At 60 °C | | 2 mA 2 mA | |
| Voltage Drop | 1 V at 2.4 A 0.85 V at 0.7 A | 1 V at 2.4 A 0.85 V at 0.5 A | |
| Switching Delay | Max. 20 msec at 50 Hz | Max. 19 msec at 60 Hz | |
| Switching Procedure | Switched ON with change in voltage potential Switched OFF with change in current direction | | |
| Transient Voltage | 1500 V for Max. 2 msec (at 220 Ω) | | |
| Electric Isolation Output - PLC Group - Group Output - Housing | 2500 V (Optocoupler, Distance between lines - 6 mm) 1500 V (Distance between lines - 3 mm) 1500 V (Distance between lines - 3.5 mm) | | |
| Grade | 4 | | |
| Protection Circuit | No External Protective Circuitry Required | | |
| Power Consumption At +8 V | 1.8 W | | |
| Documentation German English French Italian Spanish | Hardware Manual MULTICONTROL MAHWMULTI-0 MAHWMULTI-E MAHWMULTI-F MAHWMULTI-I MAHWMULTI-I MAHWMULTI-S | | |

CONNECTIONS



²⁾ Unless restricted by the max. power loss of the triac (see section "Switching Current")

³⁾ Check engaging current and hold current when controlling relays!