

**INTRODUCTION**

The **NIO** series of DIN rail relays are interfaces used extensively in switching applications in industrial automation. They are built with high quality components for beyond normal performance and comply with the highly demanding automation standards.

Electrical connections are quickly performed through the quick-on spring loaded terminals without turning screws which help speed up the installation procedure and guarantee highly efficient contacts under high amperage.



**FEATURES**

- Width at only 6.2 mm
- NO, COM and NC contacts rated at 6 A
- AC and DC current switching
- Quick-on connection terminals
- 35mm DIN rail application (EN 60715)

**APPLICATIONS**

- Electrical isolation, contact multiplying, signal and small loads switching

**SPECIFICATIONS**

- Mechanical life: 10,000,000 cycles
- Electrical life with resistive load: 60,000 cycles
- Switching time: 5 ms
- Electrical insulation between input and output: 1000 Vac
- Operating temperature: -40 to 70 °C (-40 to 158 °F)
- Enclosure protection: IP20
- Wiring gauge: 0.2 ~ 1.5 mm<sup>2</sup>

**Input**

- Switching rated voltage (UN): 12/24/220 Vac/dc
- Consumption: 0.2/0.3/0.9 VA (W)
- Holding voltage: 0.8 ... 1.1 UN
- Must drop-out voltage: 0.6 UN

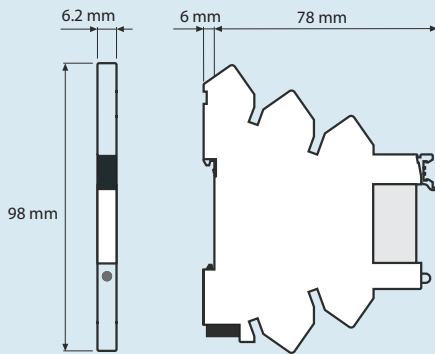
**Output**

- Output type: SPDT relay
- Rated current: 6 A
- Maximum instantaneous current: 10 A
- Working voltage: 250 Vac/dc
- Maximum working voltage: 400 Vac/dc
- Resistive load capacity: 1500 VA
- Inductive load capacity: 300 VA
- Capacity with monophasic motor (220 Vac): 185 VA (1/4 HP)
- Maximum resistive current DC (30V / 220V): 6 A / 0,15 A
- Contact material: AgNi

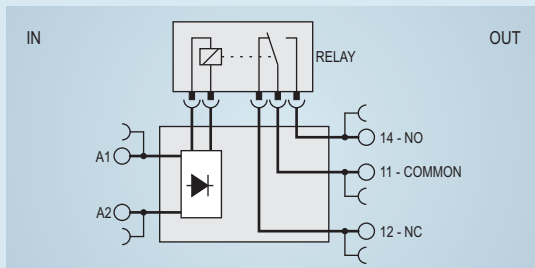
**OPTIONS**

- Identification and interconnecting accessories

**DIMENSIONS**



**ELECTRICAL CONNECTIONS**



**Wiring:**

Spring loaded connectors appropriate for a single conductor with or without crimped terminal. Opening the contact is achieved by pressing the spring loaded connector with the tip of a screwdriver and the wire tip is then inserted.

**HOW TO SPECIFY**

Modelo	Description
NIO - 1R - 12VAD	Interface Relay with 1 SPST relay, 12 Vdc/ac switching
NIO - 1R - 24VAD	Interface Relay with 1 SPST relay, 24 Vdc/ac switching
NIO - 1R - 230VAD	Interface Relay with 1 SPST relay, 230 Vdc/ac switching