



# 0419 series

## 16 Amp RAST 5 Relay

File E214025  
UL US S D N KEMA

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

### Features

- 2 Form A (DPST-NO).
- 16 amp rated current.
- Compatible with RAST 5 connector.
- Contact gap exceeds 3 mm; 4kV/8mm contact-to-coil spacing.
- Designed for European domestic appliances.
- Snap-in or screw mounting.
- Dust cover.

### Contact Data

**Arrangements:** 2 Form A (DPST-NO).

**Material:** Silver-cadmium oxide or silver-nickel.

**Expected Mechanical Life:** 2 million operations.

#### Ratings:

**Current:** 16A.

**Voltage:** 250VAC.

**Power (breaking):** 4,000 VA.

**Voltage (breaking):** 400VAC.

**Current (making, max. 4s at 10% duty cycle):** 25A.

#### AC Coil Models

16 amp resistive, 250VAC, 100,000 ops.

12 amp resistive, 250VAC, 100,000 ops.

#### DC Coil Models

16 amp resistive, 250VAC, 250,000 ops.

12 amp resistive, 250VAC, 250,000 ops.

### Initial Dielectric Strength

**Between Open Contacts:** 2,000Vrms.

**Between Coil and Contacts:** 4,000Vrms.

**Creepage/Clearance:** 8/8mm.

### Coil Data DC @ 20°C

**Nominal Coil Power:** AC Coils: 2.0-2.5 VA; DC Coils: 1.3W.

Nominal Voltage VDC	DC Resistance in Ohms ±10%	Must Operate Voltage VDC	Drop-out Voltage VDC	Maximum Voltage VDC	Nominal Coil Current (mA)
<b>DC Coils</b>					
12	118	7.7	0.9	19.5	102.0
24	470	15.5	1.8	39.0	51.0
<b>AC Coils (50 Hz)</b>					
110-120	1,650	93.0	18.0	132.0	20.0
220-240	6,600	187.0	36.0	264.0	10.0
380-400	20,000	323.0	60.0	440.0	6.0

### Operate Data

**Must Operate Voltage:** See Coil Data table.

**Operate Time (typical):** 15 ms.

**Release Time (typical):** 15 ms.

**Bounce Time (typical):** 4 ms.

**Switching Rate:** 9,000 ops./hr. max. at rated load.

### Environmental Data

**Temperature Range:**

**Operating:** -20°C to +90°C.

**Vibration:** (5 to 500 Hz.) 2g.

**Shock (destruction):** 80g.

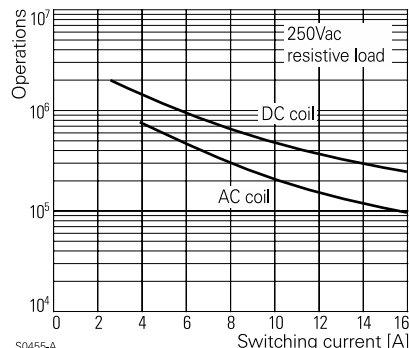
### Mechanical Data

**Termination:** Rast 5.

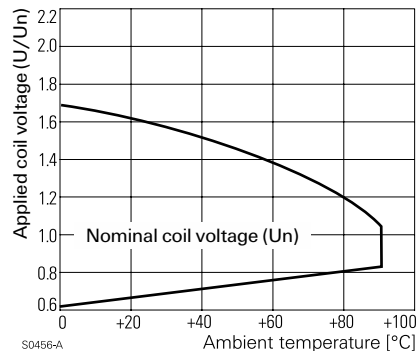
**Enclosure:** Plastic dust cover.

**Weight:** 3.2 oz. (90 g) approximately.

### Contact Life



### Coil Operating Range



## Ordering Information

Typical Part Number ►

**0419 01**

**14**

**01**

**00**

### 1. Basic Series:

0419 01= Power relay with RAST 5 connection.

### 2. Coil Voltage:

31 = 12VDC      29 = 24VDC      14 = 110-120VAC      10 = 220-240VAC      09 = 380-400VAC

### 3. Contact Material:

01 = Silver-cadmium oxide.      03 = Silver-nickel 90/10

### 4. Mounting:

00 = Snap mounting, 1.0 mm panel

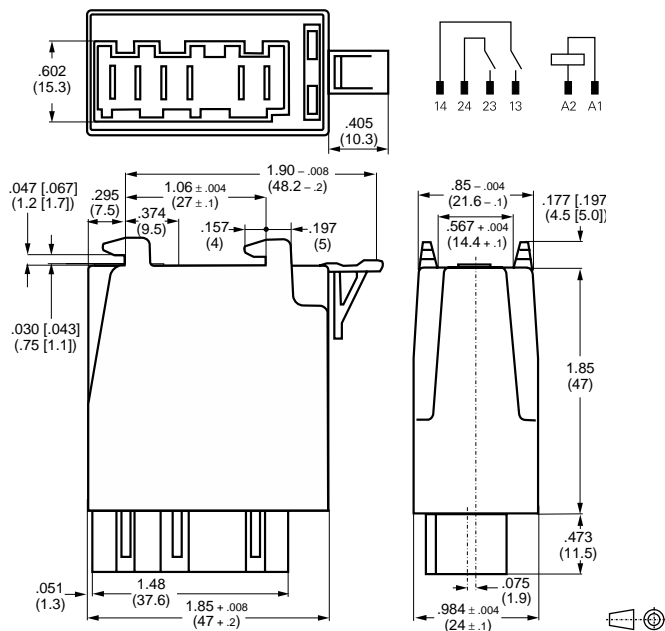
01 = Snap mounting, 1.5 mm panel

02 = Screw mounting

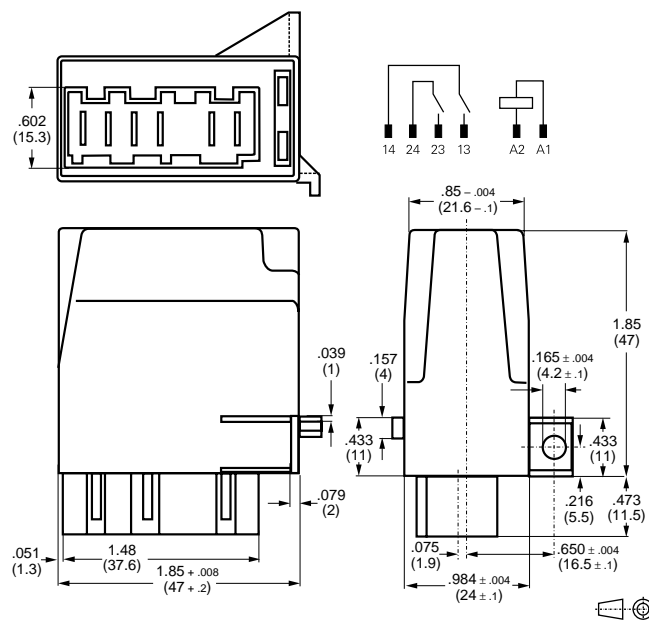
**Our authorized distributors are more likely to stock the following items for immediate delivery.**

None at present.

## Outline Dimensions and Wiring Diagrams



**Snap Mount Version**



**Screw Mount Version**