

Rast 5 Power Relay 419 11 (EA/. .)

- 2 pole 16A, 2 form A (2 NO) contacts
- Safety mains insulation
- Quick connect terminals 6.3x0.8mm
- Contact gap >3mm
- 4kV/8mm coil-contact
- Snap or screw mounting
- Product in accordance to IEC 60335-1

Typical applications
Industrial and domestic appliances, heating controls,
absolute safe power supply disconnection



F0255-CI

Approvals

VDE REG.-Nr. 5064 ÜG, UL E214024
Technical data of approved types on request

Contact Data

| | |
|---|--------------------------|
| Contact arrangement | 2 form A (2 NO) |
| Contact gap | >3mm |
| Rated voltage | 250VAC |
| Max. switching voltage | 400VAC |
| Rated current | 16A |
| Limiting making current, max 4 s, duty factor 10% | 25A |
| Contact material | AgCu ₃ |
| Contact style | bifurcated contact |
| Frequency of operation, with/without load | 900/36000h ⁻¹ |

Contact ratings

| Type | Contact | Load | Cycles |
|------------------|------------|---------------------------|---------------------|
| IEC 61810 | | | |
| 0419 .. 03 | 2 A (2 NO) | 16A, 250VAC, cosφ=1, 85°C | 250x10 ³ |
| 0419 .. 04 | 2 A (2 NO) | 12A, 250VAC, cosφ=1, 85°C | 250x10 ³ |
| 0419 .. 03 | 2 A (2 NO) | 20A, 250VAC, cosφ=1, 85°C | 6x10 ³ |
| 0419 .. 12 & 13 | 2 A (2 NO) | 16A, 250VAC, cosφ=1, 85°C | 250x10 ³ |
| 0419 .. 12 & 13 | 2 A (2 NO) | 12A, 400VAC, cosφ=1, 85°C | 250x10 ³ |
| 0419 .. 12 & 13 | 2 A (2 NO) | 20A, 250VAC, cosφ=1, 85°C | 6x10 ³ |

Mechanical endurance

| | |
|---------|---------------------------------|
| DC coil | >2x10 ⁶ operations |
| AC coil | >0.5x10 ⁶ operations |

Coil Data

| | |
|----------------------------|--------------|
| Coil voltage range | |
| DC coil | 6 to 60VDC |
| AC coil | 24 to 400VAC |
| Operative range, IEC 61810 | |
| DC coil | 1 |
| AC coil | 2 |

Coil versions, DC coil

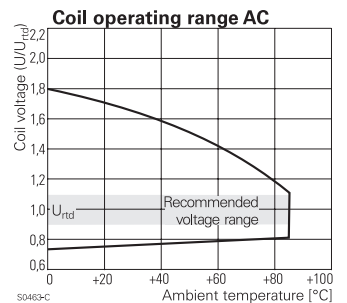
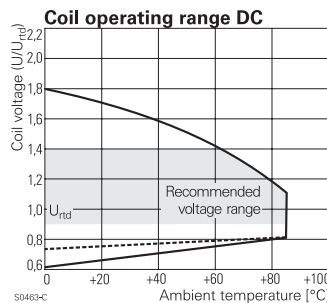
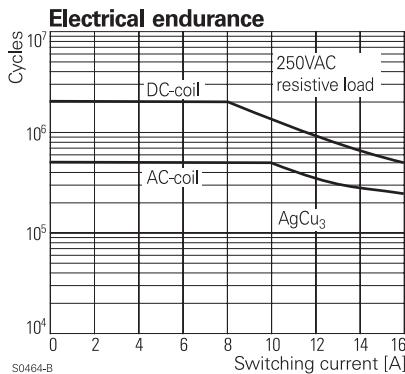
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% | Rated power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------|----------------|
| 10 | 6 | 3.5 | 0.4 | 50 | 720 |
| 11 | 10 | 6.0 | 0.7 | 150 | 667 |
| 12 | 12 | 7.5 | 0.9 | 200 | 720 |
| 13 | 24 | 15.0 | 1.8 | 800 | 720 |

All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.

Coil versions, AC coil

| Coil code | Rated voltage VAC | Operate voltage VAC | Release voltage VAC | Coil resistance Ω±10% | Rated coil power VA |
|-----------|-------------------|---------------------|---------------------|-----------------------|---------------------|
| 01 | 200 | 160 | 15 | 4050 | 2.2 |
| 03 | 220/240 | 187 | 16 | 4500 | 2.2 |
| 04 | 100/120 | 80 | 7 | 850 | 2.2 |

All figures are given for coil without pre-energization, at ambient temperature +23°C, 50Hz.
Other coil voltages on request.



Rast 5 Power Relay 419 11 (EA/. .) (Continued)

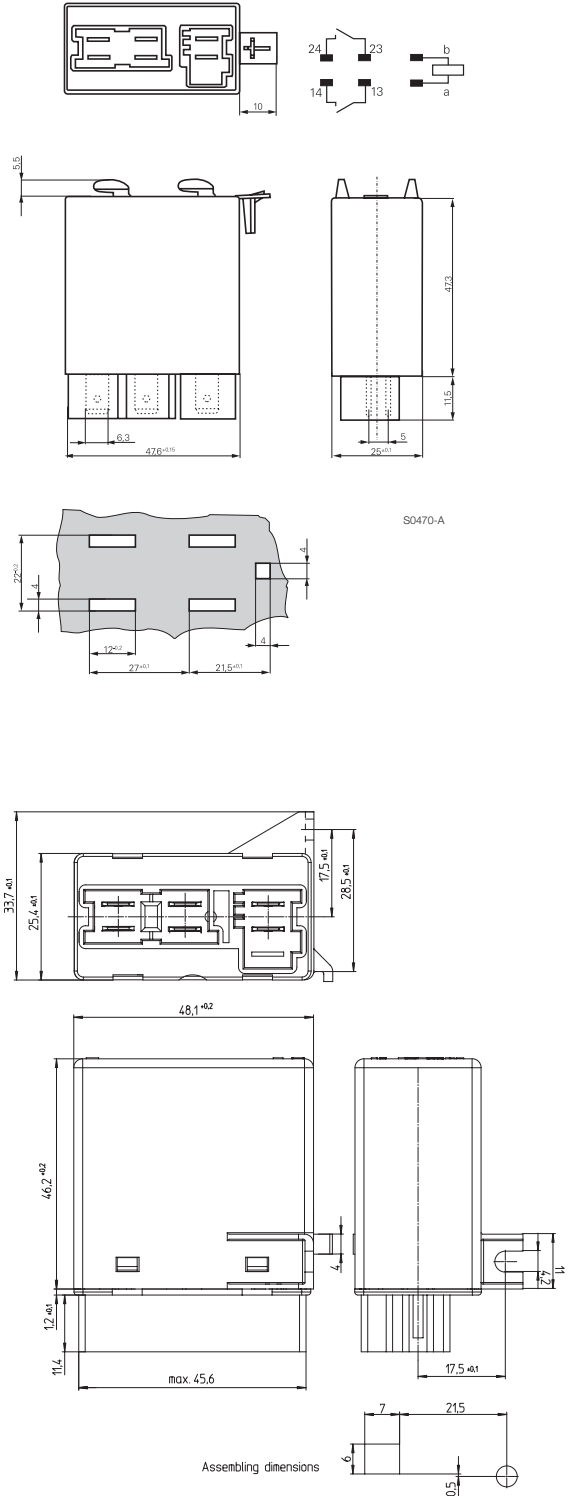
Insulation Data

| | |
|------------------------------------|----------------------|
| Initial dielectric strength | |
| between open contacts | 2000V ^{rms} |
| between contact and coil | 4000V ^{rms} |
| between adjacent contacts | 4000V ^{rms} |
| Clearance/creepage | |
| between contact and coil | ≥6/8mm |
| Material group of insulation parts | IIIa |
| Tracking index of relay base | PTI250 |

Other Data

| | |
|---|-------------------------------|
| Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter | |
| Resistance to heat and fire | according EN60335, par.30 |
| Ambient temperature | -20 to +85°C |
| Category of environmental protection | |
| IEC 61810 | RTI - dust protected |
| Vibration resistance (functional), 50 to 500Hz | 2g |
| Shock resistance (destructive) | 80g |
| Terminal type | Rast 5 connector |
| Mounting | snap mounting, screw mounting |
| Weight | 92 g |
| Packaging unit | 50 pcs. |

Dimensions



Rast 5 Power Relay 419 11 (EA/. .) (Continued)

| | | | | | | | | | | |
|-------------------------------|--|--|--|-------------|----------|----------|-----------|----------|----------|-----------|
| Product code structure | | Typical product code | | 0419 | 1 | 1 | 03 | 0 | 1 | 00 |
| Type | | 0419 Rast 5 Power Relay 419 11 (EA/. .) | | | | | | | | |
| Mounting | | 1 Snap mounting, 1.0mm panel 2 Snap mounting, 1.5mm panel 3 Screw mounting | | | | | | | | |
| Version | | 1 2 coil connectors 2 3 coil connectors | | | | | | | | |
| Coil | | Coil code: please refer to coil versions table | | | | | | | | |
| Contact material | | 0 AgCu 3 | | | | | | | | |
| Contact connectors | | 1 Silver plated | | | | | | | | |
| Version | | 00 Standard | | | | | | | | |

Other types on request

| Product code | Version | Cont. material | Cont.arrangement | Coil | Part number |
|-----------------|----------------|----------------|------------------|---------|-------------|
| 0419 11 0301 00 | Snap Mounting | AgCu3 | 2 form A, | AC coil | 3-1415419-5 |
| 0419 11 1201 00 | 1.0mm plate | | 2 NO | DC coil | 4-1415419-0 |
| 0419 11 1301 00 | | | contacts | | 4-1415419-2 |
| 0419 31 0301 00 | Screw Mounting | | | AC coil | 4-1415419-9 |
| 0419 31 1301 00 | | | | DC coil | 5-1415419-5 |

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