

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

- 2 pole 16 A
- Safety mains insulation
- Quick connect terminals 6.3 x 0.8 mm
- Contact gap > 3 mm
- 4 kV / 8 mm coil-contact
- Snap or screw mounting
- Product in accordance to IEC60335-1
- RoHS compliant (Directive 2002/95/EC) as per product date code 0349

**Applications**

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



F0255-B1

**Approvals**

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

**Contact data**

Contact configuration	2 NO
Contact set	bifurcated contacts
Type of interruption	full disconnection
Rated current	16 A
Rated voltage / max.switching voltage AC	240/400 VAC
Limiting making capacity, max 4 s, duty factor 10%	25 A
Contact material	AgCu3
Contact gap	> 3 mm
Mechanical endurance DC-coil	2x10 <sup>6</sup> cycles
AC-coil	0,5x10 <sup>6</sup> cycles
Rated frequency of operation with / without load	15 / 600 min <sup>-1</sup>

**Contact ratings**

Type	Load	Cycles
DC Version	16 A, 250 VAC, cosφ=1	5x10 <sup>5</sup>
DC Version	12 A, 400 VAC, cosφ=1	2,5x10 <sup>5</sup>
DC Version	20 A, 250 VAC, cosφ=1	6x10 <sup>3</sup>
AC Version	16 A, 250 VAC, cosφ=1	2,5x10 <sup>5</sup>

**Coil data**

Rated coil voltage range DC coil	6...60 VDC
AC coil	24...400 VAC
Coil power DC coil	0,72 W
AC coil	2,2 VA
Operative range DC coil / AC coil	1 / 2

**Coil versions, DC-coil**

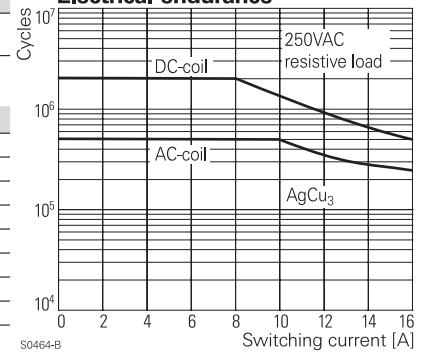
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
10	6	3.5	0.4	50±10%	720
11	10	6.0	0.7	150±10%	667
12	12	7.5	0.9	200±10%	720
13	24	15.0	1.8	800±10%	720

**Coil versions, AC-coil**

Coil code	Rated voltage VAC	Operate voltage VAC	Release voltage VAC	Coil resistance Ohm	Rated coil power VA
01	200.50/60Hz	160.0	15.0	4050±10%	2.2
03	220..240.50/60Hz	187.0	16.0	4500±10%	2.2
04	100..120.50/60Hz	80.0	7.0	850±10%	2.2

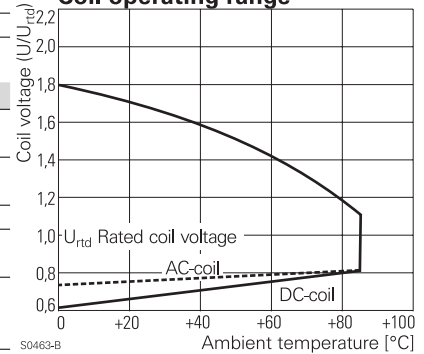
All figures are given for coil without preenergization, at ambient temperature +23°C  
 Other coil voltages on request

**Electrical endurance**



S0464-B

**Coil operating range**



S0463-B

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

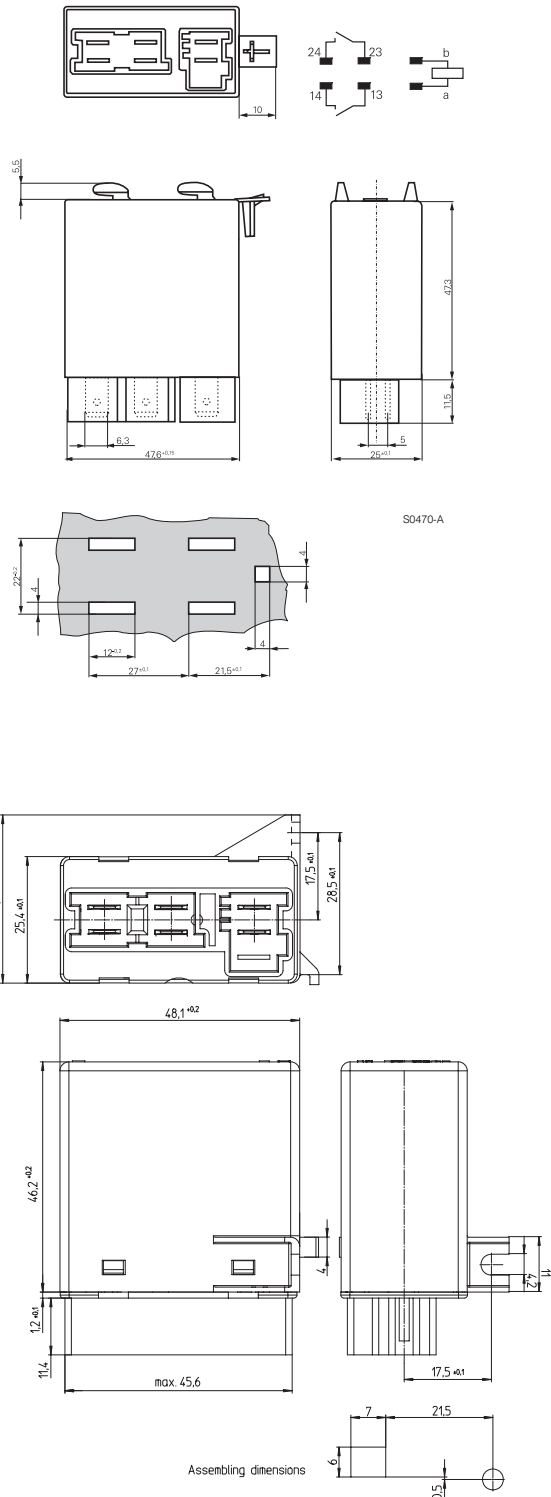
**Insulation**

Dielectric strength coil-contact circuit	4000 V <sub>rms</sub>
open contact circuit	2000 V <sub>rms</sub>
adjacent contact circuits	4000 V <sub>rms</sub>
Clearance / creepage coil-contact circuit	≥ 6 / 8 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	PTI 380M
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	reinforced
open contact circuit	basic
adjacent contact circuits	reinforced
Rated insulation voltage	250 V
Pollution degree	3
Rated voltage system	230/400 V
Overvoltage category	III

**Other data**

RoHS - Directive 2002/95/EC	compliant as per product date code 0349
Ambient temperature range	-20...+85°C
Operate- / release time	typ. 15 / 12 ms
Bounce time NO	typ. 8 ms
Vibration resistance (function) NO (5...500Hz)	2 g
Shock resistance (destruction)	80 g
Category of protection	RT1 - dust protected
Mounting	snap or screw mounting
Relay weight	92 g
Packaging unit	50 pcs

**Dimensions**



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

**Product key**

0	4	1	9					0	1	0	0
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Type

Mounting

- 1** Snap mounting, 1.0 mm panel
- 2** Snap mounting, 1.5 mm 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 key	Version	Cont-material	Cont.configuration	Coil	Coil	Part number
0419 11 0301 00	Snap Mounting	AgCu3	2 NO contacts	AC-coil	230 VAC	3-1415419-5
0419 11 1201 00	1.0 mm plate			DC-coil	12 VDC	4-1415419-0
0419 11 1301 00	Screw Mounting				24 VDC	4-1415419-2
0419 31 0301 00				AC-coil	230 VAC	4-1415419-9
0419 31 1301 00				DC-coil	24 VDC	5-1415419-5