

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

2 pole 16 A



F0259-AC

Features

- Safety mains insulation
- Fast-on connectors 6.3 x 0.8 mm
- Contact gap > 3 mm
- 4 kV / 8 mm coil-contact
- Snap or screw mounting

Applications

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



Contact data

Configuration	2 N/O contacts
Type of contact	bifurcated contacts
Rated current	16 A
Rated voltage / max.breaking voltage AC	250 Vac / 400 Vac
Rated voltage / max.breaking voltage DC	250 Vdc
Maximum breaking capacity AC	4000 VA
Make current (max. 4 s at duty cycle 10%)	25 A
Contact material	AgCu 3 / AgCdO

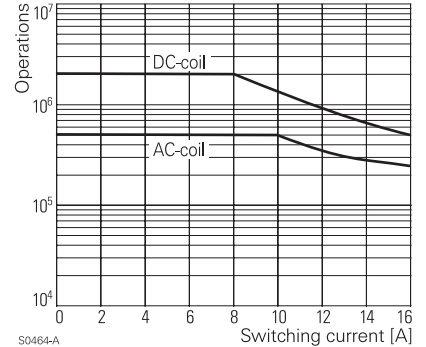
Contact ratings

Type	Load	Operations
419 DC-versions	16 A, 250 Vac, cosφ=1	5x10 ⁵
419 AC-versions	16 A, 250 Vac, cosφ=1	2.5x10 ⁵
419 DC-versions	12 A, 400 Vac, cosφ=1	2.5x10 ⁵
419 DC-versions	20 A, 250 Vac, cosφ=1	6x10 ³

Coil data

Nominal voltage	DC coil	6...60 Vdc
	AC coil	24...400 Vdc
Nominal coil power	DC coil	0.72 W
	AC coil	2.2 VA
Operate category	DC coil	1 / b
	AC-coil	2 / b

Electrical endurance



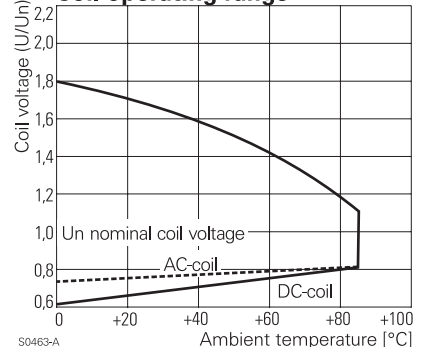
Coil versions DC-coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
10	6	3.5	0.4	10.0	50±10%	120.0
11	10	6.0	0.7	16.6	150±10%	67.0
12	12	7.5	0.9	19.8	200±10%	60.0
13	24	15.0	1.8	39.6	800±10%	30.0

All figures are given for coil without preenergization, at ambient temperature +20°C

Other coil voltages on request

Coil operating range



Edition: 11/2003

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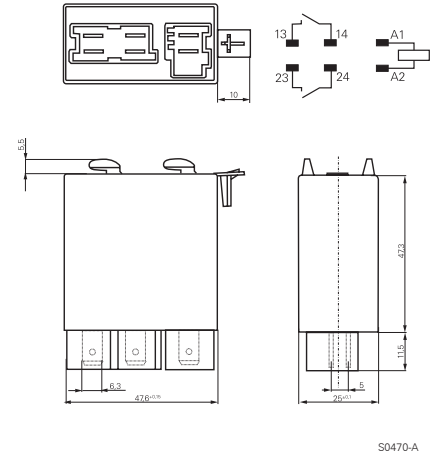
Coil versions AC-coil

Coil code	Nominal voltage Vac	Pull-in voltage Vac	Release voltage Vac	Maximum voltage Vac	Coil resistance Ω	Coil current mA
01	200-240/50-60 Hz	160.0	15.0	264	4050 \pm 10%	11.0
03	230/50 Hz	187.0	16.0	264	4500 \pm 10%	10.0
04	100-120/50-60 Hz	80.0	7.0	132	850 \pm 10%	5.5

All figures are given for coil without preenergization, at ambient temperature +20°C
Other coil voltages on request

Dimensions

Dimensions in mm



Insulation

Dielectric strength	coil-contacts	4000 V _{rms}
	open contact circuit	2000 V _{rms}
Clearance / creepage		> 8 mm
Insulation to IEC 60664		
Voltage rating		250 V
Pollution degree		3
Overvoltage category		III
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage		B / 400, C / 250
Tracking resistance of relay base		PTI 380 M

Other data

Flammability class according to UL 94	V-0
Ambient temperature	-20...+85 °C
Mechanical life	DC-coil: 2x10 ⁶ operations AC-coil: 0.5x10 ⁶ operations
Max. switching rate at rated- / minimum load	15 min ⁻¹ / 600 min ⁻¹
Operate- / release time	typ. 15 / 12 ms
Bounce time	typ. 8 ms
Vibration resistance	2 g, 5...500 Hz
Shock resistance (destruction)	80 g
Category of protection (IEC 61810)	RT I dust protected
Relay weight	92 g
Packaging unit	50 pcs.

Product key

0 4 1 9 **1 0 0**

Type	
Mounting	
1 Snap mounting, 1.0mm panel	
2 Snap mounting, 1.5mm panel	
3 Screw mounting	
Design	
1 2 coil connectors	
2 3 coil connectors	
Coil	Coil code: Please refer to coil versions table
Contact material	
0 AgCu3	
1 AgCdO	
Contact connectors	
1 Silver plated	
Version	
00 Standard	
Other types on request	