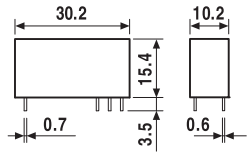
Features

1 Pole - Low profile (15.4 mm height)
43.41 - 1 Pole, 10 A (3.2 mm pin pitch)
43.41-0300 - 1 Pole NO, 10 A (5 mm pin pitch)
43.61-0300 - 1 Pole NO, 16 A (5 mm pin pitch)

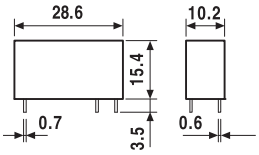
PCB mount - direct or via PCB socket (43.41 version)

- Sensitive DC coil:
  - 250 mW (10 A version)
  - 400 mW (16 A version)
- Very high coil-contact isolation 10 mm, 6 kV (1.2/50 µs)
- Cadmium Free contacts (preferred version)
- Flux proof: RT II standard, (RT III option)

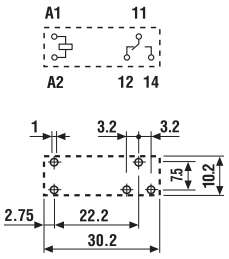
43.41	43.41-0300	43.61-0300
		
• 3.2 mm contact pin pitch • 1 Pole CO, 10 A • PCB direct or via socket	• 5 mm contact pin pitch • 1 Pole NO, 10 A • PCB mount	• 5 mm contact pin pitch • 1 Pole NO, 16 A • PCB mount



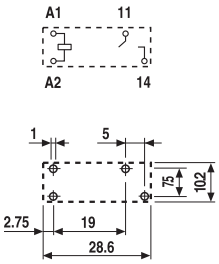
43.41



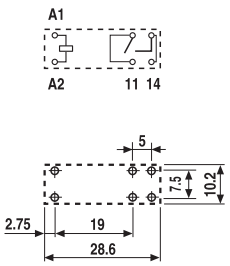
43.41-0300
43.61-0300



Copper side view



Copper side view



Copper side view

FOR UL RATINGS SEE:
"General technical information" page V

Contact specification				
Contact configuration		1 CO (SPDT)	1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak current	A	10/15	10/15	16/25
Rated voltage/Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	2,500	2,500	4,000
Rated load AC15 (230 V AC)	VA	500	500	750
Single phase motor rating (230 V AC)	kW	—	—	—
Breaking capacity DC1: 30/110/220 V	A	10/0.3/0.12	10/0.3/0.12	16/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	300 (5/5)
Standard contact material		AgNi	AgNi	AgNi
Coil specification				
Nominal voltage (U_N)	V AC (50/60 Hz)	—	—	—
	V DC	3 - 6 - 9 - 12 - 18 - 24 - 36 - 48	3 - 6 - 9 - 12 - 18 - 24 - 36 - 48	12 - 24 - 48
Rated power AC/DC	VA (50 Hz)/W	—/0.25	—/0.25	—/0.4
Operating range	AC	—	—	—
	DC	(0.7...1.5)U_N	(0.7...1.5)U_N	(0.7...1.2)U_N
Holding voltage	AC/DC	—/0.4 U_N	—/0.4 U_N	—/0.4 U_N
Must drop-out voltage	AC/DC	—/0.05 U_N	—/0.05 U_N	—/0.05 U_N
Technical data				
Mechanical life AC/DC	cycles	—/10 · 10^6	—/10 · 10^6	—/10 · 10^6
Electrical life at rated load AC1	cycles	100 · 10^3	100 · 10^3	50 · 10^3
Operate/release time	ms	6/4	6/2	6/2
Insulation between coil and contacts (1.2/50 µs)	kV	6 (10 mm)	6 (10 mm)	6 (10 mm)
Dielectric strength between open contacts	V AC	1,000	1,000	1,000
Ambient temperature range	°C	–40...+85	–40...+85	–40...+85
Environmental protection		RT II	RT II	RT II
Approvals (according to type)				

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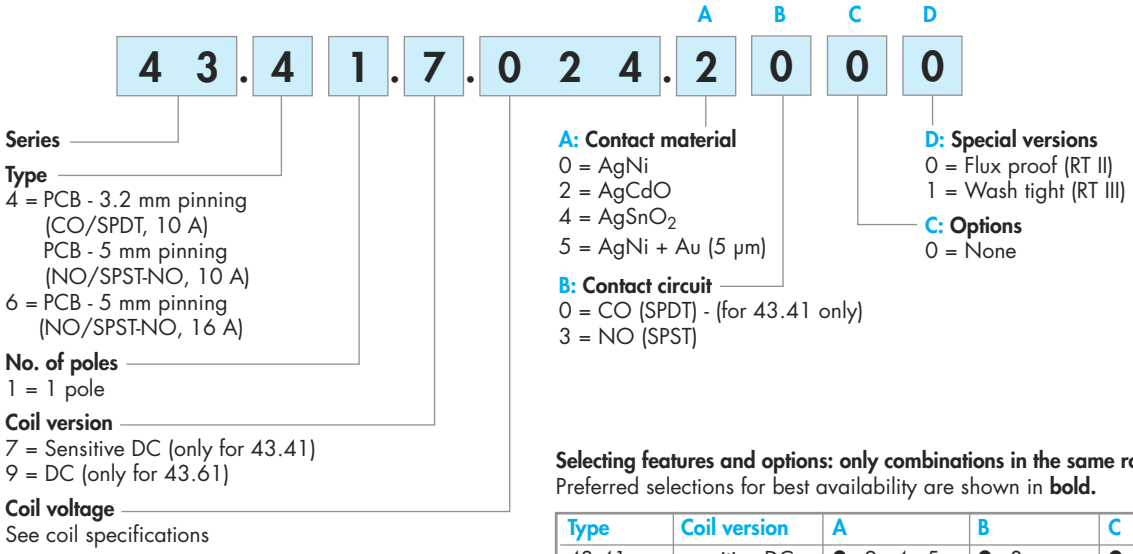
Ordering information

Example: 43 series low-profile PCB relay, 1 CO (SPDT), 24 V DC coil.



Selecting features and options: only combinations in the same row are possible.
Preferred selections for best availability are shown in **bold.**

Type	Coil version	A	B	C	D
43.41	sensitive DC	**0** - 2 - 4 - 5	**0** - 3	**0**	**0** - 1
43.61	DC	**0** - 2 - 4	**3**	**0**	**0**

Technical data

Insulation according to EN 61810-1				
Nominal voltage of supply system		V AC	230/400	
Rated insulation voltage		V AC	250	400
Pollution degree			3	2
Insulation between coil and contact set				
Type of insulation			Reinforced (10 mm)	
Overvoltage category			III	
Rated impulse voltage		kV (1.2/50 µs)	6	
Dielectric strength		V AC	4,000	
Insulation between open contacts				
Type of disconnection			Micro-disconnection	
Dielectric strength		V AC/kV (1.2/50 µs)	1,000/1.5	
Conducted disturbance immunity				
Burst (5...50)ns, 5 kHz, on A1 - A2			EN 61000-4-4	level 4 (4 kV)
Surge (1.2/50 µs) on A1 - A2 (differential mode)			EN 61000-4-5	level 3 (2 kV)
Other data				
Bounce time: NO/NC		ms	3/6	
Vibration resistance (5...55)Hz: NO/NC		g	15/3	
Shock resistance		g	15	
Power lost to the environment	without contact current	W	0.25 (43.41)	0.4 (43.61)
	with rated current	W	1.3 (43.41)	2 (43.61)
Recommended distance between relays mounted on PCB		mm	≥ 5	

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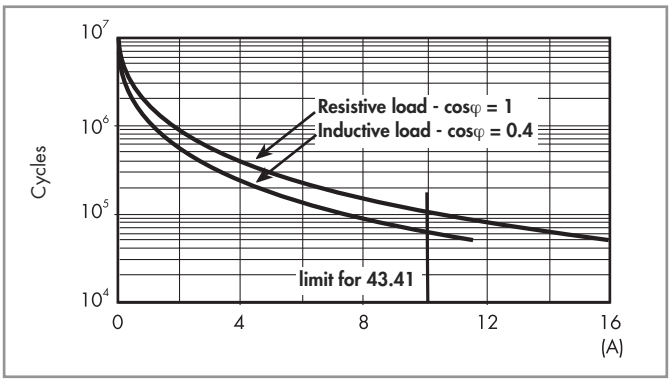
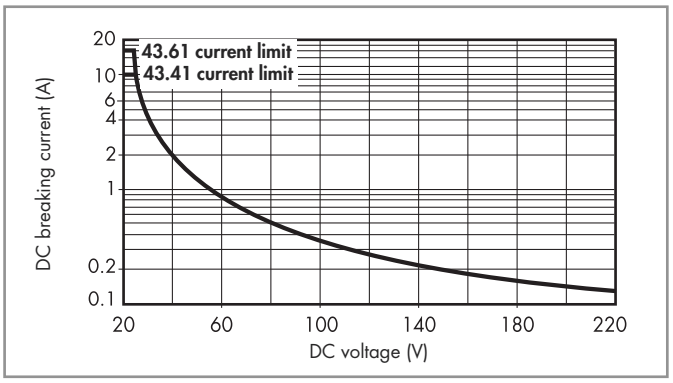
Contact specification

F 43 - Electrical life (AC) v contact current



H 43 - Maximum DC1 breaking capacity



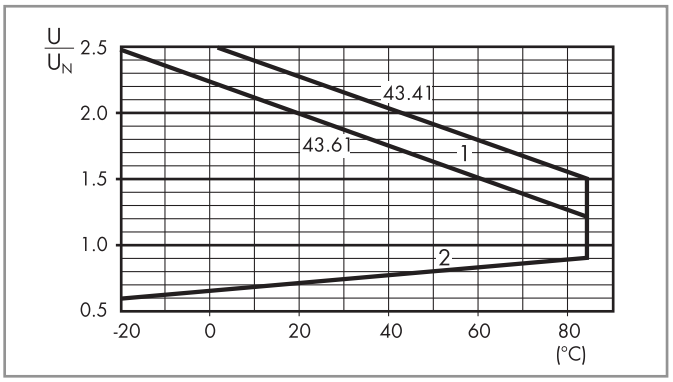
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ $100 \cdot 10^3$ for 43.41 and ≥ $50 \cdot 10^3$ for 43.61 can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load. Note: the release time for the load will be increased.

Coil specifications

DC coil data - 0.25 W sensitive (type 43.41)

Nominal voltage U_N	Coil code	Operating range U_{min}	Operating range U_{max}	Resistance R	Rated coil consumption I at U_N
V		V	V	Ω	mA
3	**7**.003	2.2	4.5	36	83.5
6	**7**.006	4.2	9	150	40
9	**7**.009	6.5	13.5	324	27.7
12	**7**.012	8.4	18	580	20.7
18	**7**.018	13	27	1,300	13.8
24	**7**.024	16.8	36	2,200	10.9
36	**7**.036	25.2	54	5,200	6.9
48	**7**.048	33.6	72	9,200	5.2

R 43 - DC coil operating range v ambient temperature



1 - Max. permitted coil voltage.
2 - Min. pick-up voltage with coil at ambient temperature.

DC coil data - 0.4 W standard (type 43.61)

Nominal voltage U_N	Coil code	Operating range U_{min}	Operating range U_{max}	Resistance R	Rated coil consumption I at U_N
V		V	V	Ω	mA
12	**9**.012	8.4	14.4	360	33.3
24	**9**.024	16.8	28.8	1,400	17.1
48	**9**.048	33.6	57.6	5,760	8.3

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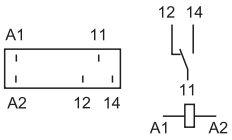
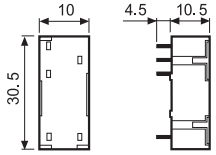
95.23

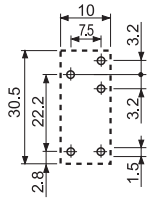
Approvals (according to type):

PCB socket (for changeover contacts only)	**95.23 (blue)**	**95.23.0 (black)**
For relay type	43.41	43.41
Accessories		
Metal retaining clip (supplied with socket - packaging code SNA)	095.43	
Technical data		
Rated values	10 A - 250 V	
Insulation	6 kV (1.2/50 µs) between coil and contacts	
Protection category	IP 20	
Ambient temperature °C	–40...+70	



43.41



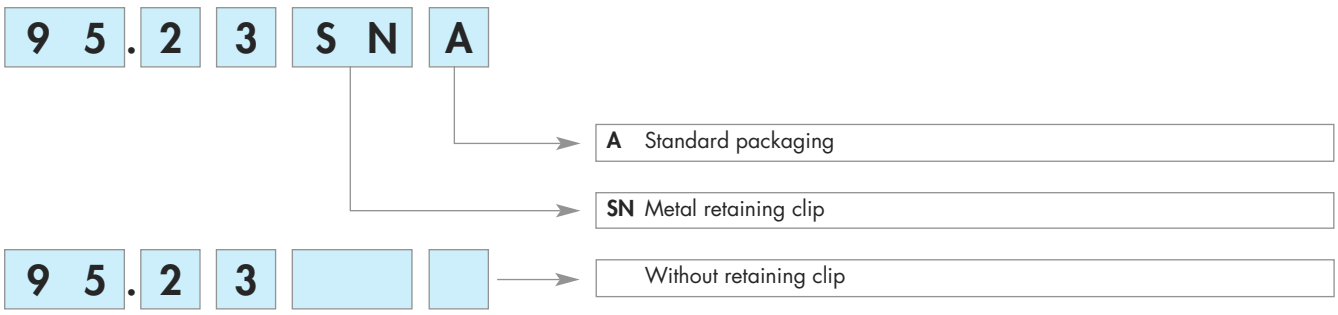


Copper side view

Packaging codes

How to code and identify retaining clip and packaging options for sockets.

Example:



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To access the product, click on the green button.

Product	Code	Reference	Product link
3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170032000	43.41.7.003.2000	Buy on EAN
Wash tight (3,5,6,9,18,36,48VDC)	434170032001	43.41.7.003.2001	Buy on EAN
Normally Open contact configuration	434170032300	43.41.7.003.2300	Buy on EAN
Normally Open contact configuration	434170032301	43.41.7.003.2301	Buy on EAN
AgSnO2 contacts	434170034000	43.41.7.003.4000	Buy on EAN
AgSnO2 contacts	434170034001	43.41.7.003.4001	Buy on EAN
AgSnO2 contacts	434170034300	43.41.7.003.4300	Buy on EAN
AgSnO2 contacts	434170034301	43.41.7.003.4301	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170035000	43.41.7.003.5000	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170035001	43.41.7.003.5001	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170035300	43.41.7.003.5300	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170035301	43.41.7.003.5301	Buy on EAN
3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170052000	43.41.7.005.2000	Buy on EAN
Wash tight (3,5,6,9,18,36,48VDC)	434170052001	43.41.7.005.2001	Buy on EAN
Normally Open contact configuration	434170052300	43.41.7.005.2300	Buy on EAN
Normally Open contact configuration	434170052301	43.41.7.005.2301	Buy on EAN

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AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170055000	43.41.7.005.5000	Buy on EAN
3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170062000	43.41.7.006.2000	Buy on EAN
Wash tight (3,5,6,9,18,36,48VDC)	434170062001	43.41.7.006.2001	Buy on EAN
Normally Open contact configuration	434170062300	43.41.7.006.2300	Buy on EAN
Normally Open contact configuration	434170062301	43.41.7.006.2301	Buy on EAN
AgSnO2 contacts	434170064000	43.41.7.006.4000	Buy on EAN
AgSnO2 contacts	434170064001	43.41.7.006.4001	Buy on EAN
AgSnO2 contacts	434170064300	43.41.7.006.4300	Buy on EAN
AgSnO2 contacts	434170064301	43.41.7.006.4301	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170065000	43.41.7.006.5000	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170065001	43.41.7.006.5001	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170065300	43.41.7.006.5300	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170065301	43.41.7.006.5301	Buy on EAN
3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170092000	43.41.7.009.2000	Buy on EAN
Wash tight (3,5,6,9,18,36,48VDC)	434170092001	43.41.7.009.2001	Buy on EAN
Normally Open contact configuration	434170092300	43.41.7.009.2300	Buy on EAN
Normally Open contact configuration	434170092301	43.41.7.009.2301	Buy on EAN
AgSnO2 contacts	434170094000	43.41.7.009.4000	Buy on EAN
AgSnO2 contacts	434170094001	43.41.7.009.4001	Buy on EAN
AgSnO2 contacts	434170094300	43.41.7.009.4300	Buy on EAN
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AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170095000	43.41.7.009.5000	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170095001	43.41.7.009.5001	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170095300	43.41.7.009.5300	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170095301	43.41.7.009.5301	Buy on EAN
AgNi contacts	434170120001	43.41.7.012.0001	Buy on EAN

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3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170122000	43.41.7.012.2000	Buy on EAN
Wash tight (3,5,6,9,18,36,48VDC)	434170122001	43.41.7.012.2001	Buy on EAN
Normally Open contact configuration	434170122300	43.41.7.012.2300	Buy on EAN
Normally Open contact configuration	434170122301	43.41.7.012.2301	Buy on EAN
AgSnO2 contacts	434170124000	43.41.7.012.4000	Buy on EAN
AgSnO2 contacts	434170124001	43.41.7.012.4001	Buy on EAN
AgSnO2 contacts	434170124300	43.41.7.012.4300	Buy on EAN
AgSnO2 contacts	434170124301	43.41.7.012.4301	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170125000	43.41.7.012.5000	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170125001	43.41.7.012.5001	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170125300	43.41.7.012.5300	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170125301	43.41.7.012.5301	Buy on EAN
3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170182000	43.41.7.018.2000	Buy on EAN
Wash tight (3,5,6,9,18,36,48VDC)	434170182001	43.41.7.018.2001	Buy on EAN
Normally Open contact configuration	434170182300	43.41.7.018.2300	Buy on EAN
Normally Open contact configuration	434170182301	43.41.7.018.2301	Buy on EAN
AgSnO2 contacts	434170184000	43.41.7.018.4000	Buy on EAN
AgSnO2 contacts	434170184001	43.41.7.018.4001	Buy on EAN
AgSnO2 contacts	434170184300	43.41.7.018.4300	Buy on EAN
AgSnO2 contacts	434170184301	43.41.7.018.4301	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170185000	43.41.7.018.5000	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170185001	43.41.7.018.5001	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170185300	43.41.7.018.5300	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170185301	43.41.7.018.5301	Buy on EAN
AgNi contacts	434170240001	43.41.7.024.0001	Buy on EAN
3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170242000	43.41.7.024.2000	Buy on EAN

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Wash tight (3,5,6,9,18,36,48VDC)	434170242001	43.41.7.024.2001	Buy on EAN
Normally Open contact configuration	434170242300	43.41.7.024.2300	Buy on EAN
Normally Open contact configuration	434170242301	43.41.7.024.2301	Buy on EAN
AgSnO2 contacts	434170244000	43.41.7.024.4000	Buy on EAN
AgSnO2 contacts	434170244001	43.41.7.024.4001	Buy on EAN
AgSnO2 contacts	434170244300	43.41.7.024.4300	Buy on EAN
AgSnO2 contacts	434170244301	43.41.7.024.4301	Buy on EAN
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AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170245301	43.41.7.024.5301	Buy on EAN
3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170362000	43.41.7.036.2000	Buy on EAN
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Normally Open contact configuration	434170362300	43.41.7.036.2300	Buy on EAN
Normally Open contact configuration	434170362301	43.41.7.036.2301	Buy on EAN
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AgSnO2 contacts	434170364001	43.41.7.036.4001	Buy on EAN
AgSnO2 contacts	434170364300	43.41.7.036.4300	Buy on EAN
AgSnO2 contacts	434170364301	43.41.7.036.4301	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170365000	43.41.7.036.5000	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170365001	43.41.7.036.5001	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170365300	43.41.7.036.5300	Buy on EAN
AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170365301	43.41.7.036.5301	Buy on EAN
3.2mm pinning; AgCdO; Flux proof 1CO 10A	434170482000	43.41.7.048.2000	Buy on EAN
Wash tight (3,5,6,9,18,36,48VDC)	434170482001	43.41.7.048.2001	Buy on EAN
Normally Open contact configuration	434170482300	43.41.7.048.2300	Buy on EAN

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Normally Open contact configuration	434170482301	43.41.7.048.2301	Buy on EAN
AgSnO2 contacts	434170484000	43.41.7.048.4000	Buy on EAN
AgSnO2 contacts	434170484001	43.41.7.048.4001	Buy on EAN
AgSnO2 contacts	434170484300	43.41.7.048.4300	Buy on EAN
AgSnO2 contacts	434170484301	43.41.7.048.4301	Buy on EAN
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AgNi+Au contacts (3,5,6,9,18,36,48VDC)	434170485301	43.41.7.048.5301	Buy on EAN
5mm pinning; AgCdO; Flux proof 1NO 16A	436190062300	43.61.9.006.2300	Buy on EAN
5mm pinning; AgCdO; Flux proof 1NO 16A	436190122300	43.61.9.012.2300	Buy on EAN
AgSnO2 contacts	436190124300	43.61.9.012.4300	Buy on EAN
5mm pinning; AgCdO; Flux proof 1NO 16A	436190242300	43.61.9.024.2300	Buy on EAN
AgSnO2 contacts	436190244300	43.61.9.024.4300	Buy on EAN

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