

Miniature PCB Relay RE

1 pole 6 A



- 1N/O contact
- Sensitive coil 200 mW
- 4 kV coil-contact
- Optimized height 10,6 mm
- PCB area 200 mm²
- Immersion proof

Applications
PLC's, timers, temperature control, I / O cards

F0141-A



Technical data of approved types on request

Contact data

Configuration	1 N/O contact
Type of contact	single contact
Rated current	6 A
Rated voltage / max. breaking voltage	250 Vac / 440 Vac
Rated breaking capacity	1500 VA
Make current (max. 4 s at duty cycle 10%)	15 A
Contact material	AgCdO, AgNi 0.15 gold plated

Contact life

Type	Load	Operations	Standard
RE 030	2 A, 400 Vac, AC 11	2x10 ⁵	VDE 0660
RE 030	2 A, 250 Vac, AC 11	4x10 ⁵	VDE 0660
RE 030	0.33 A, 250 Vac, AC 11	5x10 ⁶	VDE 0660
RE 030	1/8hp, 120 Vac	3x10 ⁴	UL 508
RE 030	1/4hp, 240 Vac	3x10 ⁴	UL 508
RE 030	B 300		UL 508
RE 030	6 A, 30 Vdc, resistive	5x10 ⁵	
RE 030	0.3 A, 50 Vdc, L/R=40 ms	3x10 ⁶	

Coil data

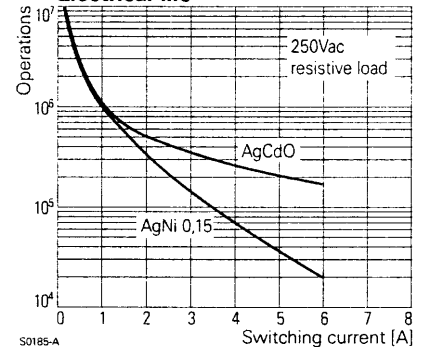
Nominal voltage	5...48 Vdc
Nominal coil power	200 mW
Operate category	2 / b

Coil versions, DC-coil

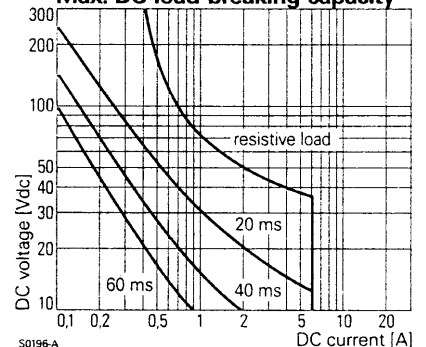
Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.5	0.5	13.5	125 $\pm$ 10%	40.0
006	6	4.2	0.6	16.2	180 $\pm$ 10%	33.3
012	12	8.4	1.2	32.4	720 $\pm$ 10%	16.7
024	24	16.8	2.4	64.8	2880 $\pm$ 15%	8.3
048	48	33.6	4.8	129.6	11520 $\pm$ 15%	4.2

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

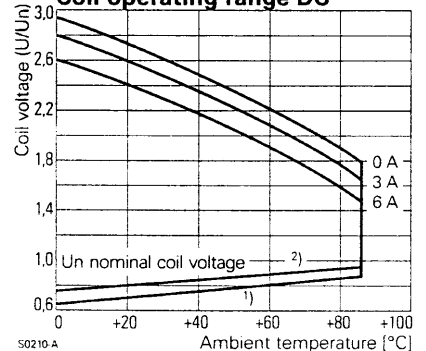
Electrical life



Max. DC load breaking capacity



Coil operating range DC



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Insulation

Dielectric strength	coil-contacts	4000 V _{rms}
	open contact circuit	1000 V _{rms}
Clearance / creepage		≥ 4 / 4 mm
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage		C / 250, B / 400

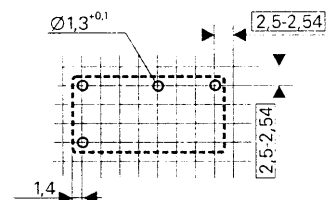
Other data

Flammability class UL	V-0
Ambient temperature	-40...+70 °C, -40...+85 °C at 4 A
Mechanical life	> 30x10 ⁶ operations
Max. switching rate at rated- / minimum load	6 min ⁻¹ / 1200 min ⁻¹
Operate- / release time	typ. 5 / 1 ms
Bounce time	typ. 1 ms
Vibration resistance	open contact: 10 g closed contact: 20 g
Shock resistance (destruction)	100 g
Protection category	IP 67
Relay weight	5 g
Packaging unit	25 / 500 pcs.

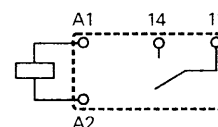
PCB layout / terminal assigment

View on solder pins

Dimensions in mm



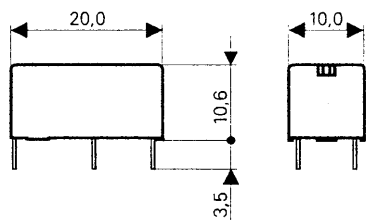
30176-BH



30176-BJ

Dimensions

Dimensions in mm



S0271-4H

Ordering key

Type

Version

0 washable

Contacts

3 1 N/O contact

Contact material

0 AgCdO

2 AgNi 0,15 gold plated

Coil

Coil code: please refer to coil versions table

