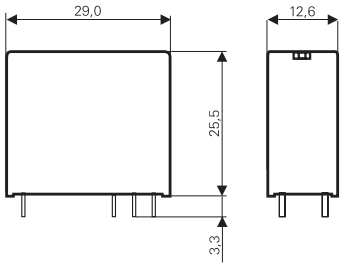
PCB Relay RCH II/1 – 1 pole 8 / 12 / 16 A

- 1 C/O or 1 N/O contact
- 4 kV / 8 mm coil-contact
- Pinning 3.5 or 5 mm (8 / 12 A) and 5 mm (16 A)

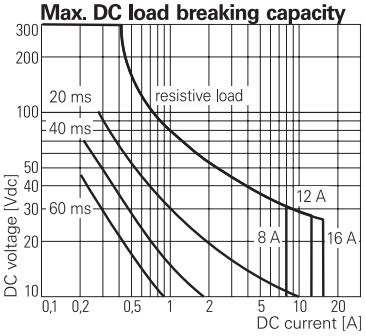
Dimensions in mm



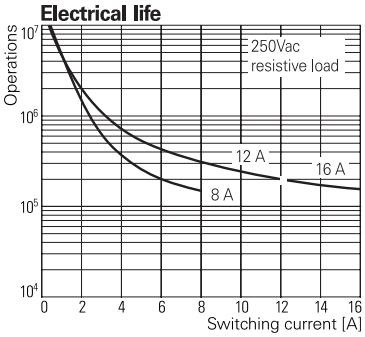
Applications
Power supplies, domestic appliances, heating control, installation

Approvals:

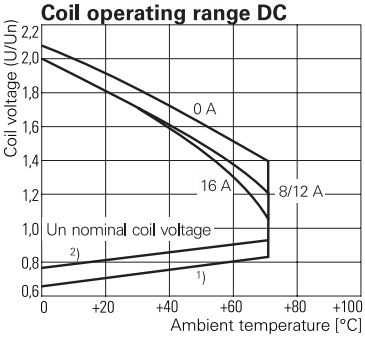
Max. DC load breaking capacity



Electrical life



Coil operating range DC



Ordering data

Type	Version	Contacts	Cont. Material	Coil	Part No.
RCH310006	16 A	1 C/O contact	AgCdO	6 Vdc	**8692490000**
RCH310012	pinning 5mm	””	””	12 Vdc	**8689150000**
RCH310024	””	””	””	24 Vdc	**4064580000**
RCH310048	””	””	””	48 Vdc	**8689440000**
RCH310512	””	””	””	12 Vac	**8689450000**
RCH310524	””	””	””	24 Vac	**8689460000**
RCH310548	””	””	””	48 Vac	**8689470000**
RCH310615	””	””	””	115 Vac	**8689480000**
RCH310730	””	””	””	230 Vac	**8689490000**
RCH330006	””	1 N/O contact	””	6 Vdc	**8692360000**
RCH330012	””	””	””	12 Vdc	**8689500000**
RCH330024	””	””	””	24 Vdc	**8689510000**
RCH330730	””	””	””	230 Vac	**8692320000**
RCH411006	8A	1 C/O contact	AgNi 0,15	6 Vdc	**8689520000**
RCH411012	pinning 5mm	””	””	12 Vdc	**8689540000**
RCH411024	””	””	””	24 Vdc	**8689570000**
RCH411048	””	””	””	48 Vdc	**8689550000**
RCH411110	””	””	””	110 Vdc	**8689560000**
RCH411524	””	””	””	24 vac	**8689570000**
RCH411615	””	””	””	115 Vac	**8689580000**
RCH411730	””	””	””	230 Vac	**8689590000**
RCH412006	””	””	””	6 Vdc	**8689020000**
RCH412012	8 A	””	””	12 Vdc	**8689040000**
RCH412024	pinning 3,5mm	””	””	24 Vdc	**8689050000**
RCH412048	””	””	””	48 Vdc	**8689060000**
RCH412110	””	””	””	110 Vdc	**8689070000**
RCH412512	””	””	””	12 Vac	**8688500000**
RCH412524	””	””	””	24 Vac	**8688970000**
RCH412548	””	””	””	48 Vac	**8688980000**
RCH412560	””	””	””	60 Vac	**8688990000**
RCH412615	””	””	””	115 Vac	**8689000000**
RCH412730	””	””	””	230 Vac	**8689010000**

Technical data

Configuration	1 C/O contact or 1 N/O contact		
Type of contact	single contact		
Rated current	8 A	12 A	16 A
Rated voltage / max.breaking voltage AC	250 Vac / 440 Vac		
Maximum breaking capacity AC	2000 VA	3000 VA	4000 VA
Make current	16 A	20 A	25 A
Contact material	AgNi 0.15	AgCdO	AgCdO

Contact ratings

Type	Operations	Standard	Load
RCH411	10^5	AC 1	8 A, 250 Vac, cosϕ=1, 50% duty cycle
RCH412	10^5	AC 1	8 A, 250 Vac, cosϕ=1, 50% duty cycle
RCH330	$1.1x10^5$	AC 1	18.2 A, 250 Vac, cosϕ=1, 600/h, 15% duty cycle
RCH330	$> 3x10^4$	VDE 0630	96 A ON, 16 A OFF, 250 Vac, cosϕ=0.6, 450/h

Coil data

Nominal voltage	5...110 Vdc / 12…230 Vac
Nominal coil power	500 mW
Operate category	2 / b

PCB Relay RCH II/1 – 1 pole 8 / 12 / 16 A

Ordering key

R C H					

Type

Version
- **3 16 A, flux-tight**
- **4 8/12 A, flux-tight**

Contacts
- **1** 1 C/O contact
- **3** 1 N/O contact

Contact material
- 0 AgCdO, 16 A or 12 A, pinning 5 mm
- **1** AgNi 0.15, 8 A, pinning 5 mm
- **2 AgNi 0.15, 8 A, pinning 3.5 mm**

Coil
- Coil code: please refer to coil versions table

Preferred types in bold print

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
006	6	4.2	0.6	10.8	68±10%	88.2
012	12	8.4	1.2	21.6	270±10%	44.4
024	24	16.8	2.4	43.2	1100±15%	21.8
048	48	33.6	4.8	86.4	4400±15%	10.9
060	60	42.0	6.0	108.0	6540±15%	9.2
110	110	77.0	11.0	198.0	23100±15%	4.8

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

Other coil voltages on request

Coil versions, AC-coil

Coil code	Nominal voltage Vac	Pull-in voltage Vac	Release voltage Vac	Coil resistance Ω	Coil current mA
512*	12	9.6	3.6	60±10%	81.0
524	24	19.2	7.2	280±10%	39.7
548*	48	38.4	14.4	960±15%	20.1
615	110-115	92.0	34.5	5600±15%	9.9
730	230	184.0	69.0	27386±15%	4.0

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

* coils without approvals

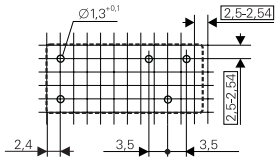
Insulation		
Dielectric strength	coil-contacts	4000 V_{rms}
	open contact circuit	1000 V_{rms}
Clearance / creepage		8 / 8 mm
Insulation to VDE 0110b (2/79)		
	Insulation category / reference voltage	C / 250

Other data	
Ambient temperature	-40...+70 °C
Mechanical life	30x10^6 operations
Max. switching rate at rated- / minimum load	10 min^{-1} / 1200 min^{-1}
Operate- / release time	typ. 8 / 2 ms
Bounce time N/O contact/N/C contact	typ. 2 / 4 ms
Vibration resistance N/O / N/C contact	>10 / 2 g, 30...300 Hz
Shock resistance (destruction)	100 g
Protection category	IP40 / IP67
Relay weight	18 g
Packaging unit	20 / 500 pcs.
Accessories	see accessories RCH

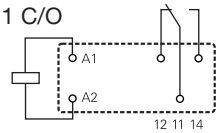
PCB layout / terminal assigment

View on solder pins
Dimensions in mm

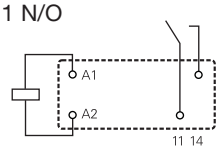
8 / 12 A, pinning 3.5 mm



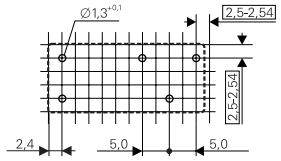
1 C/O



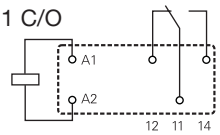
1 N/O



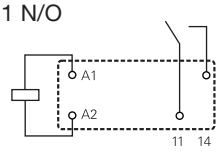
8 / 12 A, pinning 5 mm



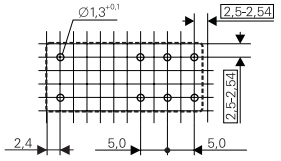
1 C/O



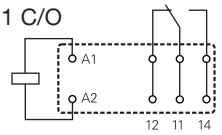
1 N/O



16 A, pinning 5 mm



1 C/O



1 N/O