

**Power PCB Relay RT1 Inrush**

- 1 pole 16A, 1 form C (CO) or 1 form A (NO) contact
- For inrush peak currents up to 80A
- Mono- or bistable coil
- 5kV/10mm coil-contact
- Reinforced insulation
- Ambient temperature 85°C

Typical applications  
Domestic appliances, heating control, lighting control



F0177-C



**Approvals**

VDE REG.-Nr. 6106, UL E214025, cCSAus 14385  
Technical data of approved types on request

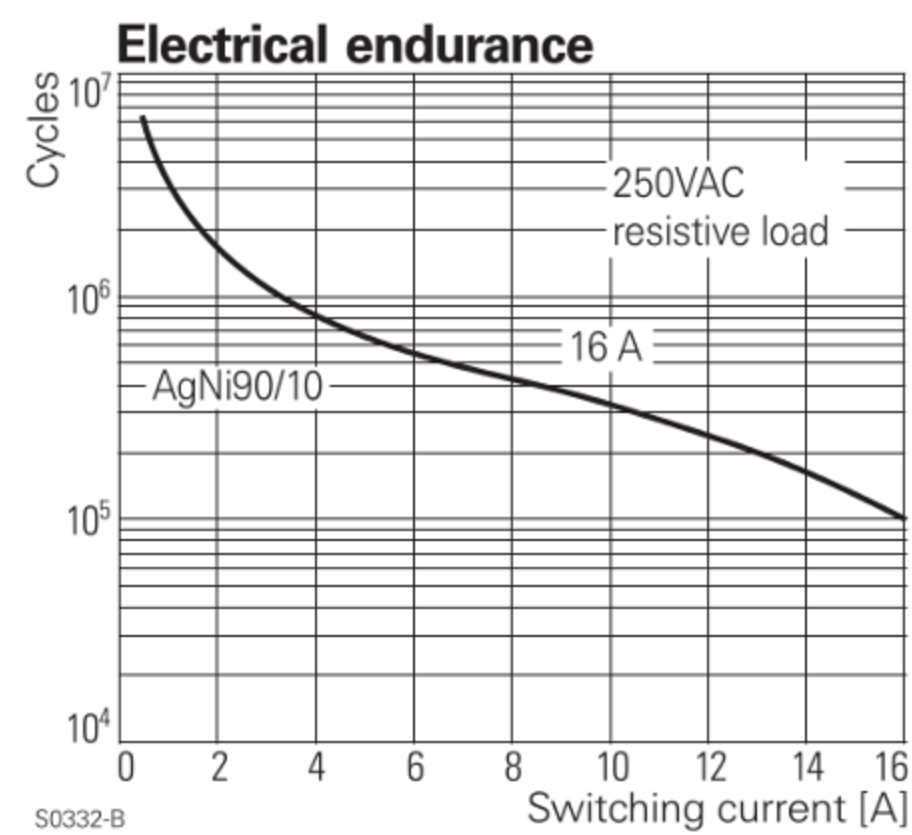
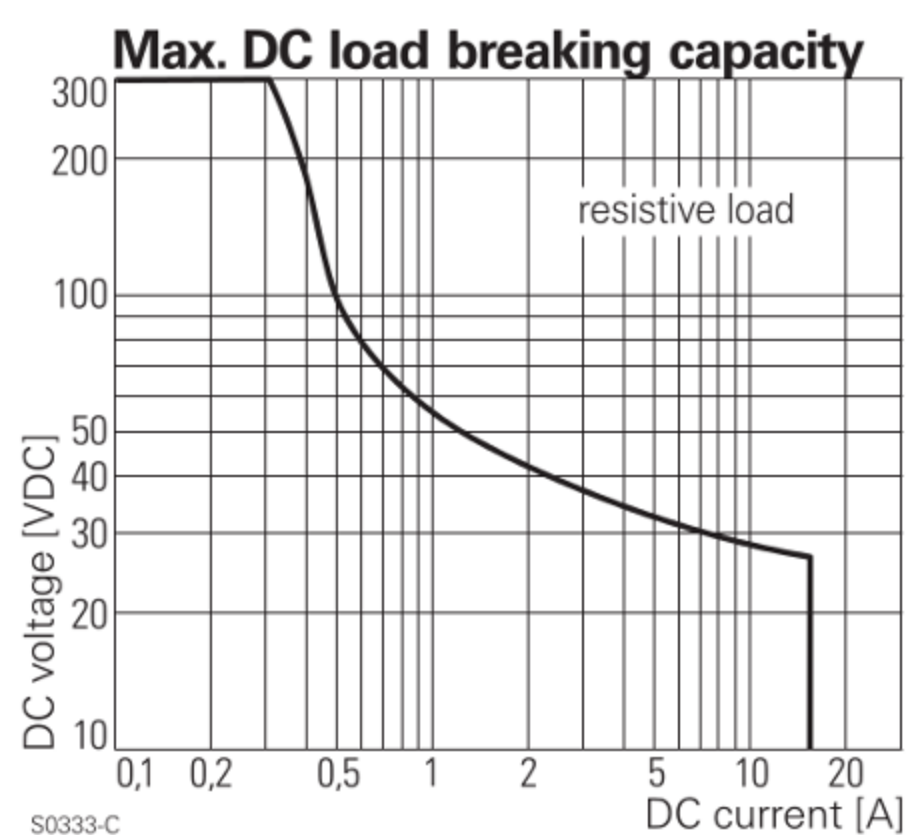
**Contact Data**

Contact arrangement	1 form C (CO) or 1 form A (NO)
Rated voltage	250VAC
Max. switching voltage	400VAC
Rated current	16A
Limiting continuous current	16A, UL: 20A (K-version)
Limiting making current, max. 4s, df 10%	30A
Limiting making current, max. 20ms (incandescent lamps), RT33L version	80A
Breaking capacity max.	4000VA
Contact material	AgNi90/10, AgSnO
Frequency of operation, with/without load	360/72000h <sup>-1</sup>
Operate/release time max., DC coil	9/6ms
Operate/Reset time max., bistable version	10/10ms
Bounce time max., form A/form B	3/6ms

**Contact ratings**

Type	Contact	Load	Cycles
<b>IEC 61810</b>			
RT33L	A (NO)	16A, 250VAC resistive, 85°C	50x10 <sup>3</sup>
RT33K	A (NO)	16A, 250VAC resistive, 85°C	30x10 <sup>3</sup>
<b>UL 508</b>			
RT33K	A (NO)	20A, 277VAC general purpose, 40°C	10x10 <sup>3</sup>
RT33L	A (NO)	16A, 250VAC resistive, 85°C	50x10 <sup>3</sup>
RT33L	A (NO)	1000W Tungsten, 120VAC, 60 Hz, 40°C	6x10 <sup>3</sup>
RT33L	A (NO)	1000W standard ballast, 120VAC, 60 Hz, 40°C	6x10 <sup>3</sup>

Mechanical endurance  
monostable version >30x10<sup>6</sup> operations  
bistable version >5x10<sup>6</sup> operations



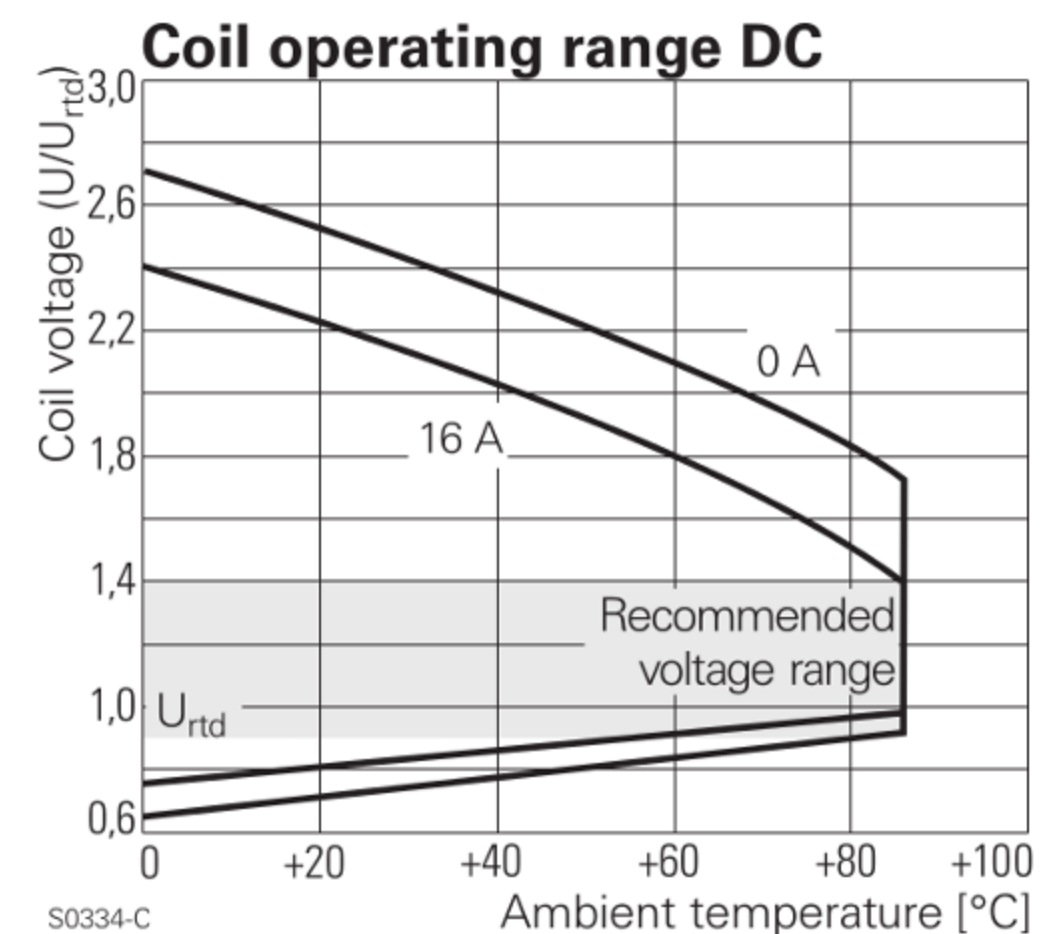
**Coil Data, DC coil**

Coil voltage range	5 to 110VDC
Operative range, IEC 61810	2
Coil insulation system according UL	class F

**Coil versions, DC coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% <sup>1)</sup>	Rated coil power mW
005	5	3.5	0.5	62	403
006	6	4.2	0.6	90	400
012	12	8.4	1.2	360	400
024	24	16.8	2.4	1440	400
048	48	33.6	4.8	5520	417
060	60	42.0	6.0	8570 <sup>1)</sup>	420

<sup>1)</sup> Coil resistance ±12%.  
All figures are given for coil without pre-energization, at ambient temperature +23°C.  
Other coil voltages on request.



**Coil Data, bistable coils**

	1 coil	2 coils
Magnetic system	polarized, bistable	
Coil voltage range	5 to 24VDC	
Operative range, IEC 61810	2	
Limiting voltage, % of rated coil voltage	120%	150%
Min./Max. energization duration	30ms/1min at <10% duty factor	
Coil insulation system according UL	class F	