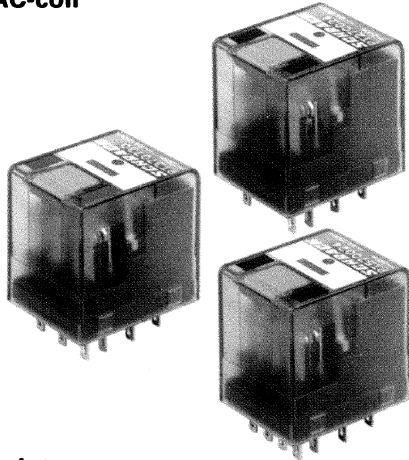


Miniature Relay PT

2 pole 12 A, 3 pole 10 A or 4 pole 6 A
DC- or AC-coil



- 2, 3 or 4 C/O contacts
- Switching performance up to 3000 VA
- Relay height 29 mm
- Cadmium-free contact material
- Mechanical indicator
- Manual test tab, optionally lockable.
- White marking tabs

Applications
Universal use in control and automation



Technical data of approved types on request

in preparation

F0191 AC

Contact data

Configuration	2 C/O	3 C/O	4 C/O
Type of contact	Single Contacts		
Rated current	12 A	10A	6 A
Rated voltage	250 Vac	250Vac	250 Vac
Maximum switching voltage	440 Vac	440 Vac	250 Vac
Rated breaking capacity	3000 VA	2500VA	1500 VA
Make current	24 A	20A	12 A
Contact material	AgNi 90/10,	Ag Ni 90/10	gold plated

Contact life

Type	Load	Operations	Standard
PT570	6 A, 250 Vac, on the C/O contact	1x10 ⁵	VDE 0435

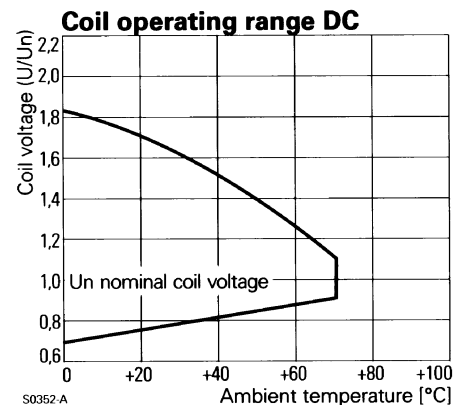
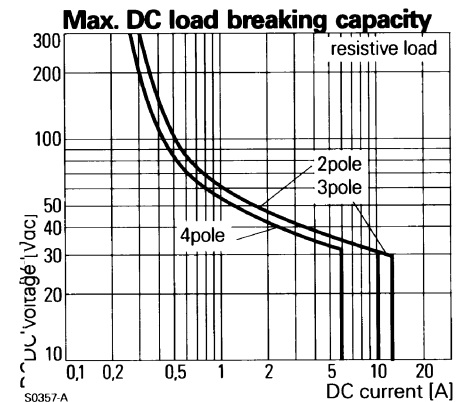
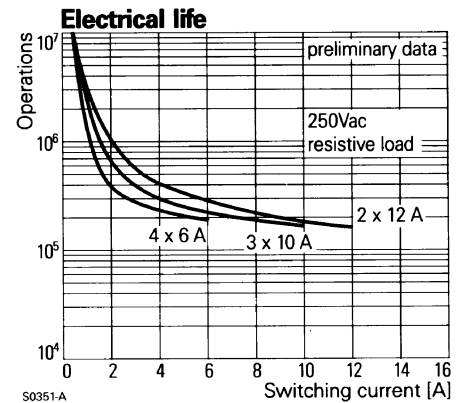
Coil data

Nominal voltage	DC coil	6...220 Vdc
	AC coil	6...230 Vac
Nominal coil power	DC coil	typ. 0.75 W
	AC coil	typ. 1.0 VA
Operate category	2 / b	
Operating range for AC coil 60Hz at 70°C	90...110% U _{nom}	

Coil versions, DC-coil

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Coil resistance Ω	Coil current mA
006	6	4.5	0.9	48±10%	125.0
012	12	9.0	1.8	192±10%	62.5
024	24	18.0	3.6	777±10%	31.3
048	48	36.0	7.2	3072±10%	15.6
060	60	45.0	9.0	4845±12%	12.5
110	110	82.5	16.5	16133±15%	6.8
220	220	165.0	33.0	64533±15%	3.4

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



Miniature Relay PT

2 pole 12 A, 3 pole 10 A or 4 pole 6 A

DC- or AC-coil

Coil versions, AC-coil

Coil code	Nominal voltage Vac	Pull-in voltage Vac	Release voltage Vac	Coil resistance Ω	Coil current mA
506	6	4.8	1.8	11 ± 10%	166.5
512	12	9.6	3.6	48 ± 10%	83.3
524	24	19.2	7.2	192 ± 10%	41.6
548	48	38.4	14.4	777 ± 10%	21.3
560	60	48.0	18.0	1306 ± 10%	16.7
615	115	92.0	34.5	4845 ± 12%	8.8
730	230	184.0	69.0	19465 ± 15%	4.3

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

Insulation	2 C/O	3 C/O	4 C/O
Dielectric strength coil-contacts	2500 V _{rms}	2500 V _{rms}	2500 V _{rms}
open contact circuit unenergized typ.	1500 V _{rms}	1500 V _{rms}	1500 V _{rms}
adjacent contacts	2500 V _{rms}	2500 V _{rms}	2000 V _{rms}
Insulation to IEC 664/VDE 0110 (1/89)			
Voltage rating	240V	240	240
Pollution degree	3	3	3
Overvoltage category	III	III	III
Insulation to VDE 0110b (2/79)			
Insulation category / reference voltage	B / 250, C / 250		
Tracking resistance	CTI 175		

Other data

Flammability class according UL 508	V-0	
Ambient temperature	DC-coil	-45...+70 °C
	AC-coil	-45...+70 °C
Mechanical life	DC-coil	>30×10 ⁶ ops.
	AC-coil	>20×10 ⁶ ops.
Max. switching rate at rated- / minimum load	6 min ⁻¹ / 600 min ⁻¹	
Operate- / release time	15 / 10 ms	
Bounce time	5 ms	
Vibration resistance N/O / N/C contact	>7 / 4 g	
Shock resistance (function) N/O / N/C contact	>20 / 5 g	
Protection category	IP 50	
Relay weight	30 g	
Packaging unit	10 pcs.	

PCB layout / terminal assignment

View on solder pins

Dimensions in mm

