

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 

Contact data

Configuration	2 C/O	3 C/O	4 C/O
Type of contact	Single Contacts		
Rated current	12 A	10 A	6 A
Rated voltage	250 Vac	250 Vac	250 Vac
Maximum switching voltage	440 Vac	440 Vac	250 Vac
Rated breaking capacity	3000 VA	2500 VA	1500 VA
Make current	24 A	20 A	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

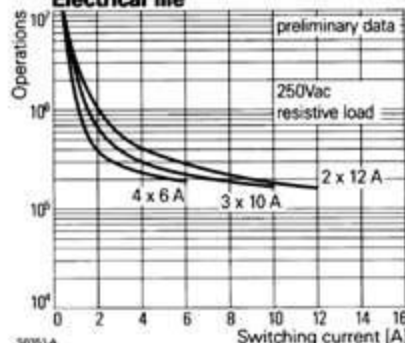
Nominal voltage	DC coil	6...220 Vdc
	AC coil	6...230 Vac
Nominal coil power	DC coil	typ. 0.75 W
	AC coil	typ. 1.0 VA
Operate category	2 / b	
Operating range for AC coil 60Hz at 70°C	90...110% U _{nom}	

Coil versions, DC-coil

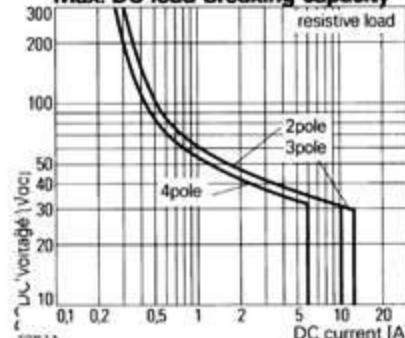
Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Coil resistance Ω	Coil current mA
006	6	4.5	0.9	48±10%	125.0
012	12	9.0	1.8	192±10%	62.5
024	24	18.0	3.6	777±10%	31.3
048	48	36.0	7.2	3072±10%	15.6
060	60	45.0	9.0	4845±12%	12.5
110	110	82.5	16.5	16133±15%	6.8
220	220	165.0	33.0	64533±15%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

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

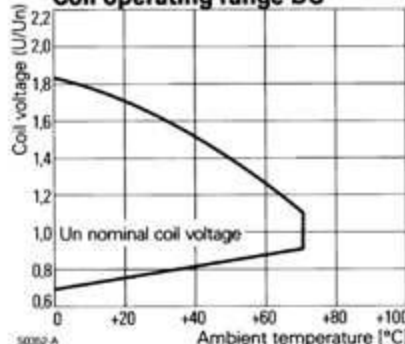
Electrical life



Max. DC load breaking capacity



Coil operating range DC



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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	$11 \pm 10\%$	166.5
512	12	9.6	3.6	$48 \pm 10\%$	83.3
524	24	19.2	7.2	$192 \pm 10\%$	41.6
548	48	38.4	14.4	$777 \pm 10\%$	21.3
560	60	48.0	18.0	$1306 \pm 10\%$	16.7
615	115	92.0	34.5	$4845 \pm 12\%$	8.8
730	230	184.0	69.0	$19465 \pm 15\%$	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
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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 >30x10 ⁶ ops. AC-coil >20x10 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

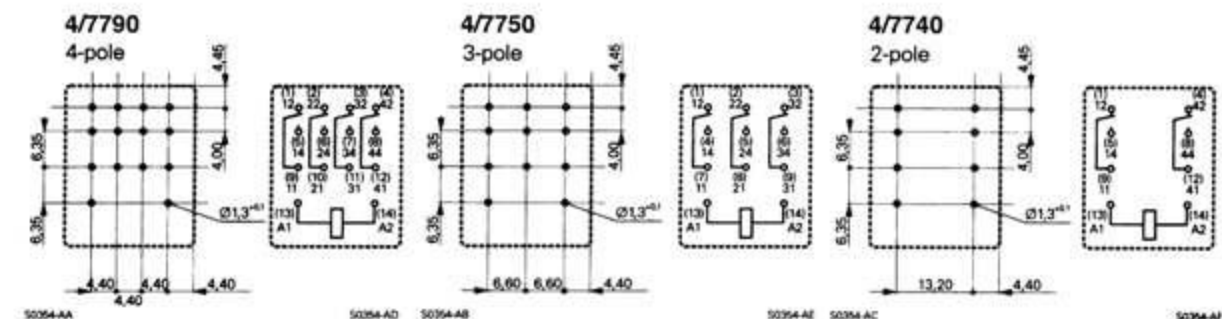
Relay weight 30 g

Packaging unit 10 pcs.

PCB layout / terminal assignment

View on solder pins

Dimensions in mm



Coil operating range AC

