

#### **Features**

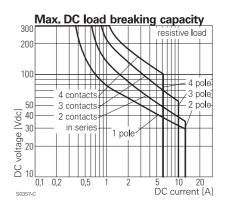
- 2, 3 or 4 C/O contacts
- Switching performance up to 3000 VA
- Relay height 29 mm
- Cadmium-free contact material
- Mechanical and electrical indicator
- Manual test tab, optionally lockable.
- White marking tabs

## **Applications**

Universal use in control and automation



Contact data	PT2	PT3	PT5	
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 / max.breaking voltage AC	250 Vac	250 Vac	250 Vac	
Maximum switching voltage	440 Vac	440 Vac	250 Vac	
Maximum breaking capacity AC	3000 VA	2500 VA	1500 VA	
Make current	24 A	20 A	12 A	
Contact material	AgNi 90/10, AgNi 90/10 gold plated			
Minimum contact load	24 V, 10 mA / 20 mV, 1 mA gold plated			

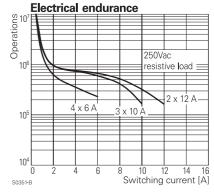


**Contact ratings** 

F0191-A

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

Coil data		
Nominal voltage	DC coil	6220 Vdc
	AC coil	6230 Vac
Nominal coil power	DC coil	typ. 0.75 W
	AC coil	typ. 1.0 VA
Operate category		2 / b
Operating range for A	AC coil 60Hz at 70°C	90110% U <sub>nom</sub>



Coil versions, DC-coil

Coil cod	е	Nominal	Pull-in	Release	Coil	Coil
Standard	d LED	voltage	voltage	voltage	resistance	current
	bipolar	Vdc	Vdc	Vdc	Ω	mΑ
006	L06	6	4.5	0.6	48±10%	125.0
012	L12	12	9.0	1.2	192±10%	62.5
024	L24	24	18.0	2.4	777±10%	31.3
048	L48	48	36.0	4.8	3072±10%	15.6
060	L60	60	45.0	6.0	4845±12%	12.5
110	M10	110	82.5	11.0	16133±15%	6.8
220	N20	220	165.0	22.0	64533±15%	3.4
All figure	es are give	n for coil withou	ut preenergiz	ation, at ambie	ent temperature +2	0°C

Coil operating range DC

(L) 2,2 (L) 2,0

S0352-C

Ambient temperature [°C]

# **Miniature Relay PT**

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

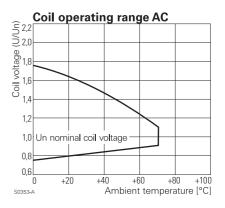
230

Coll versi	ons, AC	-coll				
Coil code		Nominal	Pull-in	Release	Coil	Coil
Standard	LED	voltage	voltage	voltage	resistance	current
		Vac	Vac	Vac	Ω	mΑ
506	R06	6	4.8	1.8	11±10%	166.5
512	R12	12	9.6	3.6	48±10%	83.3
524	R24	24	19.2	7.2	192±10%	41.6
548	R48	48	38.4	14.4	777±10%	21.3
560	R60	60	48.0	18.0	1306±10%	16.7
615	S15	115	92.0	34.5	4845+12%	8.8

69.0

184.0

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



4.3

19465±15%

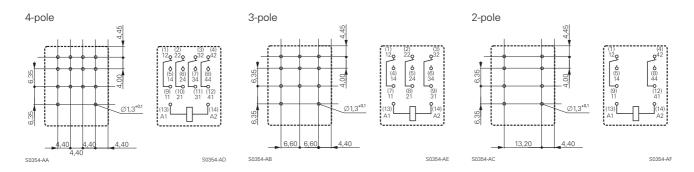
Insulation	PT2	PT3	PT5
Dielectric strength coil-contacts	2500 V <sub>rms</sub>	$2500 V_{rms}$	2500 V <sub>rms</sub>
open contact circuit in			
unenergized position typ.	$1500 V_{rms}$	$1500 V_{rms}$	$1500 V_{rms}$
adjacent contacts	$2500 V_{rms}$	$2500 V_{rms}$	2000 V <sub>rms</sub>
Clearance / creepage	3 / 4 mm	2.6 / 4 mm	1.8 / 3 mm
Insulation to IEC 60664			
Voltage rating	240 V	240 V	240 V
Pollution degree	3	3	2
Overvoltage category	III	III	III
Insulation to VDE 0110b (2/79)			
Insulation category / ref. voltage	C / 250	C / 250	B / 250
Tracking resistance of relay base		CTI 175	

Other data		
Flammability class according to UL 94		V-0
Ambient temperature	DC-coil	-40+70 °C
	AC-coil	-40+70 °C
Mechanical life	DC-coil	>30x10 <sup>6</sup> ops.
	AC-coil	>20x10 <sup>6</sup> ops.
Max. switching rate at rated- / minimum load	6 mi	n <sup>-1</sup> / 600 min <sup>-1</sup>
Operate- / release time	1	15 / 10 ms
Bounce time		5 ms
Vibration resistance N/O contact/N/C contact		>7 / 4 g
Shock resistance (function) N/O contact/N/C contact		>20 / 5 g
Category of protection (IEC 61810)		RT II
Relay weight		30 g
Packaging unit		10 pcs.
Accessories	see a	accessories PT



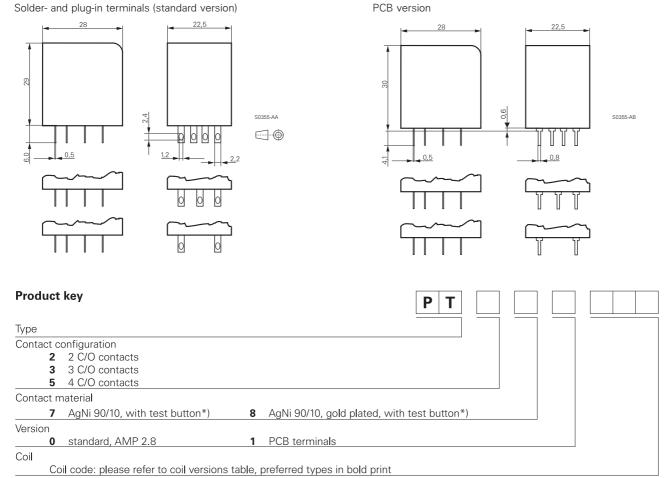
## PCB layout / terminal assignment

View on solder pins Dimensions in mm



#### **Dimensions**

Dimensions in mm



<sup>\*)</sup> Version with closed cap without test button available on request. Other types on request.





# **Miniature Relay PT**

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

Product key	Cont. config.	Cont. material	Version	Coil	Coil	Part number
PT270024	2 C/O contacts	AgNi 90/10	AMP 2.8	DC coil	24 Vdc	4-1419111-2
PT270524		test button	connectors	AC-coil	24 Vac	4-1419111-8
PT270615					115 Vac	5-1419111-0
PT270730					230 Vac	5-1419111-1
PT270L24				DC coil+LED	24 Vdc	9-1415001-1
PT270R24				AC-coil+LED	24 Vac	0-1415002-1
PT270S15					115 Vac	2-1415039-1
PT270T30					230 Vac	3-1415002-1
PT271024			PCB terminals	DC coil	24 Vdc	5-1419111-3
PT271524				AC-coil	24 Vac	5-1419111-6
PT271615					115 Vac	4-1419135-0
PT271730					230 Vac	5-1419111-8
PT370024	3 C/O contacts	AgNi 90/10	AMP 2.8	DC coil	24 Vdc	6-1419111-1
PT370524		test button	connectors	AC-coil	24 Vac	6-1419111-6
PT370615					115 Vac	6-1419111-8
PT370730					230 Vac	6-1419111-9
PT370L24				DC coil+LED	24 Vdc	5-1415002-1
PT370R24				AC-coil+LED	24 Vac	7-1415002-1
PT370S15					115 Vac	9-1415039-1
PT370T30					230 Vac	9-1415002-1
PT371024			PCB terminals	DC coil	24 Vdc	7-1419111-1
PT371524				AC-coil	24 Vac	7-1419111-3
PT371615					115 Vac	0-1393154-8
PT371730					230 Vac	7-1419111-5
PT570024	4 C/O contacts	AgNi 90/10	AMP 2.8	DC coil	24 Vdc	1-1393154-2
PT570524		test button	connectors	AC-coil	24 Vac	8-1419111-7
PT570615					115 Vac	9-1419111-0
PT570730					230 Vac	9-1419111-1
PT570L24				DC coil+LED	24 Vdc	6-1415001-1
PT570R24				AC-coil+LED	24 Vac	7-1415001-1
PT570S15					115 Vac	7-1415003-1
PT570T30					230 Vac	8-1415001-1
PT571024			PCB terminals	DC coil	24 Vdc	9-1419111-3
PT571524				AC-coil	24 Vac	9-1419111-6
PT571615					115 Vac	1-1393154-5
PT571730					230 Vac	9-1419111-8
PT580024		AgNi 90/10	AMP 2.8	DC coil	24 Vdc	1-1393154-7
PT580524		gold plated	connectors	AC-coil	24 Vac	2-1393154-1
PT580730		test button			230 Vac	2-1393154-2
PT580L24				DC coil+LED	24 Vdc	5-1415026-1
PT580R24				AC-coil+LED	24 Vac	6-1415026-1
PT580T30					230 Vac	7-1415026-1
PT581024			PCB terminals	DC coil	24 Vdc	7-1419135-2
PT581730				AC-coil	230 Vac	2-1393154-3



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