

Miniature Relay PT

- 2 pole 12 A, 3 pole 10 A or 4 pole 6 A, 2, 3 or 4 CO contacts
- DC- or AC-coil
- Switching performance up to 3000 VA
- Relay height 29 mm
- Mechanical indicator, optional LED and protection diode
- Manual test tab, optionally lockable.
- White marking tabs
- RoHS compliant (Directive 2002/95/EC)

Applications

Universal use in control and automation



F0191-A

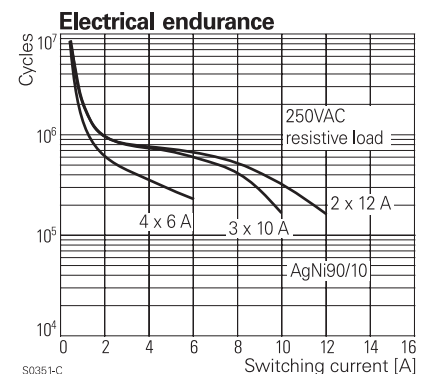
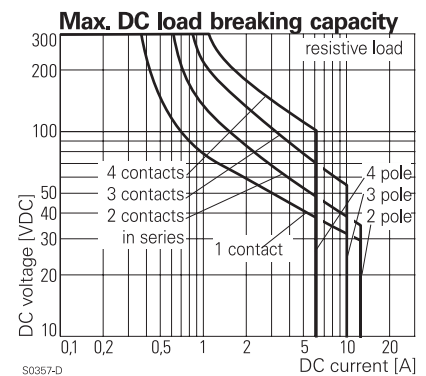
Approvals

VDE REG.-Nr. 115719, **CE** us E214025, **UL** 00/20059(E2)
Technical data of approved types on request

Contact data	PT2	PT3	PT5
Contact configuration	2 CO	3 CO	4 CO
Contact set	single contact		
Type of interruption	micro disconnection		
Rated current	12 A	10 A	6 A
Rated voltage / max.switching voltage AC	240/400 VAC	240/400 VAC	240/240 VAC
Maximum breaking capacity AC	3000 VA	2500 VA	1500 VA
Limiting making capacity, max 20 ms	24 A	20 A	12 A
Contact material	AgNi90/10, AgNi90/10 gold plated		
Minimum contact load	12V/10mA, 20mV/1mA gold plated		
Mechanical endurance DC coil	30x10 ⁶ cycles		
AC coil	20x10 ⁶ cycles		
Rated frequency of operation with / without load	6/600 min ⁻¹		

Contact ratings

Type	Load	Cycles
PT270	12 A, 250 VAC, 3000 VA, cosφ=1, DF 50%, 600 h ⁻¹ , NO, 70°C	168x10 ³
PT270	8 A, 250 VAC, 2000 VA, cosφ=1, DF 50%, 600 h ⁻¹ , NO, 70°C	750x10 ³
PT270	4 A, 250 VAC, 1000 VA, cosφ=1, DF 50%, 600 h ⁻¹ , NO, 70°C	8.3x10 ⁶
PT270	3.75 A, 400 VAC, opp. polarity, 70°C, AC3	
PT270	5 A, 250 VAC, opp. polarity, normal/abnormal, 70°C, AC15	
PT270	8 A, 24 VDC, opp. polarity, normal/abnormal, 70°C, DC13	
PT270	1.7 A, 230 VAC, 400 W, opp. polarity, 70°C, AC5b	
PT370	10 A, 250 VAC, 2500 VA, cosφ=1, DF 50%, 600 h ⁻¹ , NO, 70°C	159x10 ³
PT370	8 A, 250 VAC, 2000 VA, cosφ=1, DF 50%, 600 h ⁻¹ , NO, 70°C	466x10 ³
PT370	4 A, 250 VAC, 1000 VA, cosφ=1, DF 50%, 600 h ⁻¹ , NO, 70°C	1.1x10 ⁶
PT370	2 A, 400 VAC, opp. polarity, 70°C, AC3	
PT370	5 A, 250 VAC, opp. polarity, normal/abnormal, 70°C, AC15	
PT370	8 A, 24 VDC, opp. polarity, normal/abnormal, 70°C, DC13	
PT370	1.7 A, 230 VAC, 400 W, opp. polarity, 70°C, AC5b	
PT570	6 A, 250 VAC, 1500 VA, cosφ=1, DF 50%, 600 h ⁻¹ , NO, 70°C	228x10 ³
PT570	2 A, 250 VAC, 500 VA, cosφ=1, DF 50%, 600 h ⁻¹ , NO, 70°C	782x10 ³
PT570	3 A, 400 VAC, opp. polarity, 70°C, AC3	
PT570	4 A, 250 VAC, opp. polarity, normal/abnormal, 70°C, AC15	
PT570	6 A, 24 VDC, opp. polarity, normal/abnormal, 70°C, DC13	
PT570	1.7 A, 230 VAC, 400 W, opp. polarity, 70°C, AC5b	
PT570	0.3 A, 110 VDC, 33 W, L/R=22 ms, 1440 h ⁻¹ , DF 8%, NO, prot.D.	3.6x10 ⁶
PT570	3 A on / 1 A off, 120 VAC, cosφ 0.8on/0.5off, 600h ⁻¹ , DF 15%, NO	423x10 ³



Miniature Relay PT (Continued)

Coil data

Rated coil voltage range DC coil	6...220 VDC
AC coil	6...230 VAC
Coil power DC coil	0.75 mW
AC coil	1.0 VA
Operative range DC coil, AC-coil 50Hz	2
AC coil 60 Hz at 70°C, % of U _{rtid}	90...110%

Coil versions, DC-coil

Coil code	Rated voltage	Operate voltage	Release voltage	Coil resistance	Rated coil power	opt. LED power
STD	LED	LED+				
bipolar	PD*	VDC	VDC	VDC	Ohm	mW
006 L06 LA6	6	4.5	0.6	48±10%	750	3.5
012 L12 LB2	12	9.0	1.2	192±10%	750	10
024 L24 LC4	24	18.0	2.4	777±10%	741	18
048 L48 LE8	48	36.0	4.8	3072±10%	750	38
060 L60 LG0	60	45.0	6.0	4845±12%	743	56
110 M10 MB0	110	82.5	11.0	16133±15%	750	96.5
220 N20 NC0	220	165.0	22.0	64533±15%	750	202.5

All figures are given for coil without preenergization, at ambient temperature +23°C

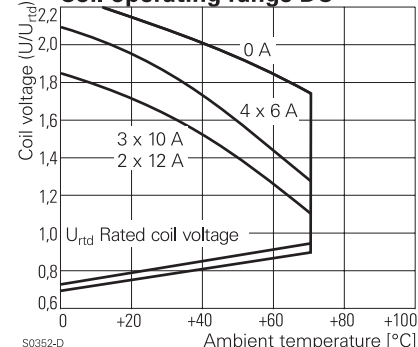
*) Protection diode PD; standard polarity: +A1 / -A2

Coil versions, AC-coil 50/60 Hz

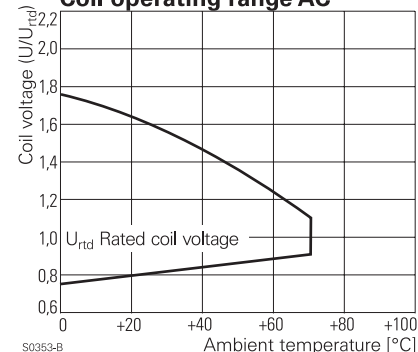
Coil code	Rated voltage	Operate voltage	Release voltage	Coil resistance	Rated coil power
STD	LED				
	VAC	50/60Hz VAC	50/60Hz VAC	Ohm	50/60Hz VA
506 R06	6	4.8/5.4	1.8	11±10%	1.0/0.85
512 R12	12	9.6/10.8	3.6	48±10%	1.0/0.85
524 R24	24	19.2/21.6	7.2	192±10%	1.0/0.79
548 R48	48	38.4/43.2	14.4	777±10%	1.0/0.87
560 R60	60	48.0/54.0	18.0	1306±10%	1.0/0.87
615 S15	115	92.0/103.5	34.5	4845±12%	1.0/0.86
730 T30	230	184.0/207.0	69.0	19465±15%	1.0/0.90

All figures are given for coil without preenergization, at ambient temperature +23°C

Coil operating range DC



Coil operating range AC



Insulation

	PT2	PT3	PT5
Dielectric strength coil-contact circuit	2500 V _{rms}	2500 V _{rms}	2500 V _{rms}
open contact circuit	1200 V _{rms}	1200 V _{rms}	1200 V _{rms}
adjacent contact circuits	2500 V _{rms}	2500 V _{rms}	2000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 4/4 mm	≥ 4/4 mm	≥ 4/4 mm
adjacent contact circuits	≥ 3.5/9.5 mm	≥ 2.6/3.5 mm	≥ 1.8/3.5 mm
Material group of insulation parts	≥ IIIa		
Insulation to IEC 60664-1			
Type of insulation coil-contact circuit	basic	basic	basic
open contact circuit	functional	functional	functional
adjacent contact circuits	basic	basic	functional
Rated insulation voltage	250 V	250 V	250 V
Pollution degree	2	2	2
Rated voltage system	240/400 V	240 V	240 V
Overvoltage category	III	III	III

Other data

RoHS - Directive 2002/95/EC	compliant
Ambient temperature range	-40...+70°C
Operate time	15 ms
Release time without / with protection diode	10 / 18 ms
Bounce time NO / NC contact	5 ms
Vibration resistance (function) NO / NC contact	7/4 g
Shock resistance (function) NO / NC contact	20/5 g
Category of protection	RTII- flux proof
Mounting distance	0 mm, dense packing
Resistance to soldering heat	270°C / 10s
Relay weight	30 g
Packaging unit	10/250 pcs

Miniature Relay PT (Continued)

Product key	Cont. Config.	Cont. material	Version	Coil	Coil	Part number
PT270024	2 CO contacts	AgNi 90/10 test button	AMP 2.8 connectors	DC-coil	24 VDC	4-1419111-2
PT270524				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 CO contacts	AgNi 90/10 test button	AMP 2.8 connectors	DC-coil	24 VDC	6-1419111-1
PT370524				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 CO contacts	AgNi 90/10 test button	AMP 2.8 connectors	DC-coil	24 VDC	1-1393154-2
PT570524				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 gold plated test button	AMP 2.8 connectors	DC-coil	24 VDC	1-1393154-7
PT580524				AC-coil	24 VAC	2-1393154-1
PT580730					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

Данный компонент на территории Российской Федерации

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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