

General Purpose Relays



Electronics

Miniature Power Relay PTF

- 2 pole 15 A, 2 CO contacts
- DC or AC coil

Approvals

Contact data Contact configuration

Type of interruption

Contact set

Rated current

- Plug-in version, PCB or chassis mount version
- RoHS compliant (Directive 2002/95/EC)

Applications Panel boards, domestic appliances

🚾 REG.-Nr. A379, c us E58304

Technical data of approved types on request

Rated voltage / max.switching voltage AC

AC coil Rated frequency of operation with / without load

Maximum breaking capacity AC

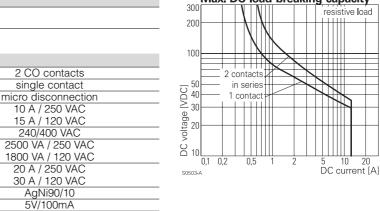
Mechanical endurance DC coil

Limiting making capacity, max 20 ms



F0281-A

Max. DC load breaking capacity



Contact ratings

Contact material Minimum contact load

Туре	Load	Cycles
PTF2	15 A, 120 VAC, NO, DC coil / AC coil	100x10 ³ / 50x10 ³
PTF2	10 A, 250 VAC, NO, DC coil / AC coil	200x10 ³ / 100x10 ³
PTF2	10 A, 24 VDC, NO, DC coil / AC coil	100x10 ³ / 50x10 ³

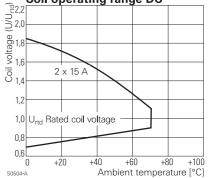
Coil data

oon data		
Rated coil voltage range DC coil	6220 VDC	
AC coil	6230 VAC	
Coil power DC coil	0.75 W	
AC coil	1.0 VA	
Operative range DC coil, AC-coil 50Hz	2	
AC coil 60 Hz at 70°C, % of Urtd	90110%	

Coil versions. DC-coil

	310113, DC-CO	/11				
Coil cod	е	Rated	Operate	Release	Coil	Rated coil
STD	LED	voltage	voltage	voltage	resistance	power
	bipolar	VDČ	VDČ	VDC	Ohm	mW
006	L06	6	4.5	0.6	48±10%	750
012	L12	12	9.0	1.2	192±10%	750
024	L24	24	18.0	2.4	777±10%	741
048	L48	48	36.0	4.8	3072±10%	750
060	L60	60	45.0	6.0	4845±12%	743
110	M10	110	82.5	11.0	16133±15%	750
220	N20	220	165.0	22.0	64533±15%	750
All figures are given for coil without preenergization, at ambient temperature +23°C						





Datasheet Rev. EK1 Issued 2005/11 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

20x10⁶ cycles 15x10⁶ cycles 6/600 min⁻¹

> processing information only to be used together with the 'Definitions' at schrackrelays.com in the

'Schrack' section.

Specifications subject to change.

1



General Purpose Relays



Electronics

Miniature Power Relay PTF (Continued)

Coil versions, AC-coil 50/60 Hz

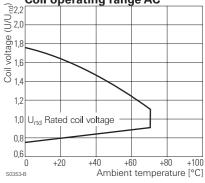
Coil		Rated	Operate	Release	Coil	Rated coil
code	LED	voltage	voltage	voltage	resistance	power
			50/60Hz	50/60Hz		50/60Hz
		VAC	VAC	VAC	Ohm	VA
506	R06	6	4.8/5.4	1.8	11±10%	1.0/0.85
512	R12	12	9.6/10.8	3.6	48±10%	1.0/0.85
524	R24	24	19.2/21.6	7.2	192±10%	1.0/0.79
548	R48	48	38.4/43.2	14.4	777±10%	1.0/0.87
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 figure	a ava alivan f	an a all milting an	A serve are available			. 0000

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

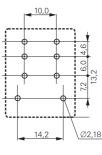
Insulation

2500 V _{rms}	
1200 V _{rms}	
2500 Vrms	
≥ 3.1/3.1 mm	
≥ 4.4/8.8 mm	
≥ Illa	
basic	
functional	
basic	
250 V	
2	
240/400 V	
111	
	1200 Vrms 2500 Vrms ≥ 3.1/3.1 mm ≥ 4.4/8.8 mm ≥ IIIa basic functional basic 250 V 2 240/400 V

Coil operating range AC



PCB layout / terminal assignment Bottom view on pins



S0507-AA

Q 12 Q 22 O (3) 0⁽⁴⁾ 24

S0507-AB

2

Accessories

Relay weight

Packaging unit

Other data

For details see datasheet

RoHS - Directive 2002/95/EC

Bounce time NO / NC contact

Resistance to soldering heat

Vibration resistance (function) NO / NC contact

Shock resistance (function) NO / NC contact

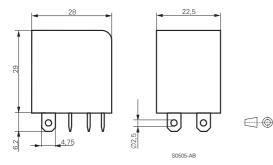
Ambient temperature range

Operate- / release time

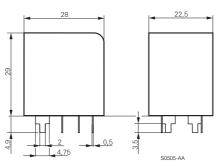
Category of protection

Dimensions

Solder- and plug-in terminals (standard version)







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Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

compliant

-40...+70°C

15/10 ms

5 ms 7/4 g

20/5 g

RTII - flux proof

270°C / 10 s

30 g 20 pcs

Accessories Miniature Power Relay PTF

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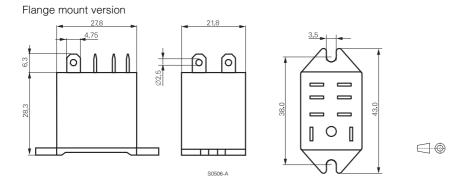


General Purpose Relays



Miniature Power Relay PTF (Continued)

Dimensions



Product key

Туре		
Contact material		
2 AgNi 90/10		
Version		
0 Quick connect terminals		
1 PCB terminals		
2 Flange mount cover		
Coil		
Coil code: please refer to coil versions table, preferred types in bold print		

Product key	Contacts	Cont. material	Terminal	Coil	Coil	Part number
PTF20024	2 CO	AgNi 90/10	quick connect term.	DC-coil	24 VDC	0-1461937-3
PTF21024	contacts	-	PCB			1-1461937-0
PTF20524			quick connect term.	AC-coil	24 VAC	0-1461938-3
PTF20615					115 VAC	0-1461938-7
PTF20730					230 VAC	0-1461938-9
PTF21524			PCB		24 VAC	1-1461938-2
PTF21615					115 VAC	1-1461938-6
PTF21730					230 VAC	1-1461938-8
PTF20L24			quick connect term.	DC + LED	24 VDC	0-1461944-3
PTF20R24				AC + LED	24 VAC	0-1461945-3
PTF20S15					115 VAC	0-1461945-7
PTF20T30					230 VAC	0-1461945-9
PTF22024			flange mount	DC-coil	24 VDC	0-1721058-3
PTF22524			cover	AC-coil	24 VAC	1-1721058-0
PTF22615					115 VAC	1-1721058-4
PTF22730					230 VAC	1-1721058-6

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

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PTF

'Schrack' section.

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3