



Relay Catalog

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Components
with
system
vision



Miniature Relay PT

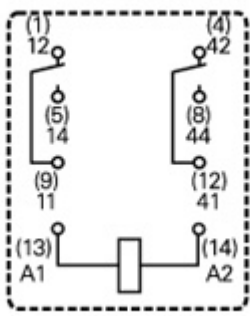
Ordering Designation: PT - 270 - 024
Dimensions (L x W x H): 28 mm x 22.5 mm x 29 mm

Features	Typical Applications
2, 3 or 4 C/O contacts - Cadmium-free contact material - Manual test tab, optionally lockable - Mechanical indicator - Relay height 29 mm - Switching performance up to 3000 VA - White marking tabs	- Measuring and test equipment - Universal use in control and automa

Design	
Terminal Design:	Solder/plug-in terminals
Case Sealing:	Dust protected
Version:	Standard, AMP 2.8; with test button

Dimensions (max.)	
Length:	28 mm
Width:	22.5 mm
Height:	29 mm
Weight:	30 g
Dimensional Drawing:	The dimensional drawing illustrates the component's geometry from three perspectives: top, side, and bottom views. The top view shows a rectangular component with a width of 28 mm and a height of 29 mm. The side view shows a width of 22.5 mm and a height of 29 mm. The bottom view shows four pins with a pitch of 6.0 mm and a pin width of 0.5 mm. The side view also shows a pin height of 2.4 mm and a pin pitch of 1.2 mm. The bottom view shows a pin pitch of 2.2 mm. The side view shows a pin pitch of 1.2 mm and a pin pitch of 2.2 mm.

All values valid at reference temp.:	20 °C
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Contact side	
Contact Configuration (number and type)	
Changeover:	2
Contact type :	
Single contact	Yes
Pin assignment:	
Rated current:	Break: 12 A, Make: 12 A
Make current max.:	Off: 24 A, On: 24 A
Break current max.:	Off: 12 A, On: 12 A
Limiting cont. current at ref. temp.:	Break: 12 A, Make: 12 A
Switching voltage :	
Max. AC:	440 V
Switching power (see load limit curve)	
Contact material:	AgNi 90/10
Note:	Approvals on request

Energizing Side	
Switching behavior:	monostabil
Actuating system:	DC
Magnet system:	Nonpolarized
Number of coils:	1
Nominal voltage:	24 V
Coil resistance at ref. temp. 20 °C:	777 Ohm +/- 77.7 Ohm
Operate power at ref. temp.:	0.42 W
Nominal power at ref. temp. 20 °C:	0.74 W
Operating voltage range	
Must operate voltage (Minimum voltage without pre-energizing):	18 V
Min. release voltage:	3.6 V
Switching times	
Operate time at nominal voltage, typ.:	15 ms
Release time typ	
without coil suppression:	10 ms
Bounce time typ.	
Break contact:	5 ms
Make contact:	5 ms

Insulation	
Tracking resistance of the base acc. to IEC 112:	CTI 175
Insulation by IEC 664/VDE 110 (1/89)	
Rated voltage:	250 V
Pollution degree:	3
Overvoltage category:	III
Nominal voltage VDE 110 (2/79)	
Insulation Group B:	250 V
Insulation Group C:	250 V
Dielectric test voltage AC	
Contact/Coil:	2.5 kV
Between neighbouring contacts:	2.5 kV
At open contact:	1.5 kV

General data	
Permissible ambient temp. in operation:	Min. -45 °C , Max. 70 °C
Mechanical endurance:	20000000 switching cycles
Flammability to UL:	V-0
Electrical endurance (Graphic):	

Operating conditions	
Vibration resistance:	NO: >7 * 9,81m/s ² ; NC: >4 * 9,81m/s ²
Shock resistance:	NO: >20*9,81 m/s ² ; NC: >5*9,81 m/s ²

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