Sensitive, Low Profile, Hi-Current Relay Designed to Meet International Standards



T75 series

File E29244

10 Amp, PC Board Miniature Relay

File No. 3919

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

ire Relay

RoHS Ready

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application

Features

- · High sensitivity nominal coil power requirement is as low as 212mW.
- Low profile, .591 in. (15mm) tall case uses only .465 in² (3cm²) of area on the printed circuit board, permitting high density circuit design.
- Power switching capability contacts rated 10 amps in 1 Form A (SPST-NO) or 1 Form C (SPDT) arrangements.
- · Designed to meet UL, CSA, VDE, SEMKO and SEV requirements.
- · Designed to meet VDE 8mm spacing, 4kV dielectric, coil to contacts.
- Designed to meet 3 mm creepage between contacts.
- Conforms to: VDE 0110 Insulation Group C (250V)
 VDE 435 Part 201 High current applications
 VDE 0804 Telecommunications equipment
 VDE 0631 Temperature controllers and limiters
 VDE 0700 Household applications.

VDE 0700 – Household appliances VDE 0805/5.90 – Office machines

- · Wash tight (washable).
- Well suited for a broad range of applications e.g. HVAC, appliances, security and industrial control.

Contact Ratings @ 25°C with relay properly vented. Remove vent nib after soldering and cleaning.

Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT).

Material: Silver-cadmium oxide

Expected Mechanical Life: 10 million operations.

Expected Electrical Life:

100,000 operations at 8 amps, 240VAC.

50,000 operations at 14 amps NO / 5 amps NC, 120VAC Res

30,000 operations at 7.2 FLA, 45 LRA, 120VAC. 10,000 operations at 5 FLA, 30 LRA, 240VAC.

30,000 operations at B300 pilot duty (360VA, 240VAC, 470VA, 120VAC)

Contact Ratings (See Figure 1):

Maximum Switched Voltage: 380VAC.

Maximum Switched Current: 14/5 (N.O./N.C.) amps, AC resistive

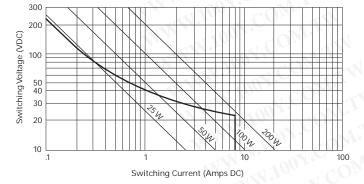
8 amps DC (see Fig. 1)

Maximum Switched Power: 200W, DC; 2,000VA, AC

Minimum Required Contact Load: 12V, 100mA. VDE Contact Ratings: 8 amps, 250VAC.

UL Contact Ratings: 10 amps, 240VAC; 8 amps 24VDC; 1/3 HP, 120VAC; 1/2 HP, 240VAC.

Figure 1 - DC Switching Load Limit Curve



Initial Dielectric Strength

Between Open Contacts: 1,000V rms.

Between Contacts and Coil: 4,000V rms, 8mm.

Coil Data

Voltage: 3 to 60VDC

Maximum Power @ 23°C: 1W. Nominal Power @ 23°C: 230mW, typ. Temperature Rise: 85C° per Watt.

Duty Cycle: Continuous.

Coil Data

COM	Nominal Voltage	DC Resistance in Ohms ±10%	Must Operate Voltage	Nominal Coil Current (mA)
	3	40	2.1	75.0
47 CO	5	118	3.4	42.4
	6	165	4.1	36.4
DC	9	365	6.1	24.7
Coils	12	650	8.2	18.5
00.	18	1,455	12.3	12.4
100X.	24	2,270	16.3	10.6
	36	5,460	24.5	6.4
	48	8,790	32.6	5.5
	60	15,265	40.8	3.9

Operate Data @ 23°C

Must Operate Voltage: 70% of nom. voltage or less.

Must Release Voltage: 10% of nom. voltage or more.

Operate Time (Excluding Bounce): 6 ms, typ., at nom. voltage.

Release Time (Excluding Bounce): 2.5 ms, typ., at nom. voltage.

Maximum Switching Rate: 20 operations/second

Maximum Continuous Operating Voltage: 225% of nom. voltage

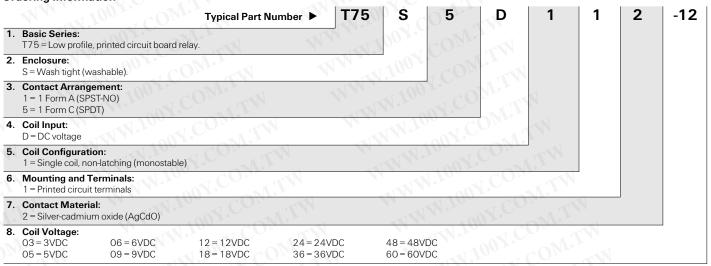
Temperature Range

Storage: -40° C to $+130^{\circ}$ C. Operating: -40° C to $+85^{\circ}$ C.

Mechanical Data

Termination: Printed circuit terminals, Enclosures: Wash tight (washable) case. Weight: 0.39 oz. (11.0g) approximately.

Ordering Information



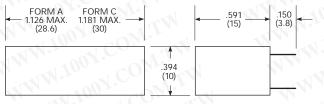
NOTE: All part numbers are RoHS compliant.

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

T75S5D112-05 T75S5D112-12 T75S5D112-24

特力材料886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

Outline Dimensions



CONTACT TERMINALS: .023 x .040 (.58 x 1.02) REF. COIL TERMINALS: .024 (.61) DIA. REF.

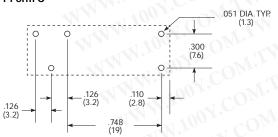
Wiring Diagram (Bottom View)



ON SINGLE THROW MODELS, ONLY NECESSARY TERMINALS ARE PRESENT.

PC Board Layouts (Bottom Views)

1 Form C



1 Form A

