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



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 14 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 appliances
 - VDE 0805/5.90 Office machines
- Immersion cleanable[§], ultrasonically sealed case. • Well suited for a broad range of applications e.g. HVAC, appliances,
- security and industrial control.
- § For more details, refer to application note 13C265, "Mounting, Termination and Cleaning of PC Board Relays

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: 20 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;

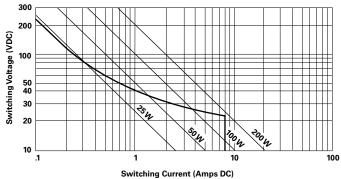
- 470VA, 120VAC).
- **Contact Ratings (See Figure 1):**

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/CSA Contact Ratings: 10 amps, 240VAC; 8 amps 24VDC;

1/3 HP, 120VAC; 1/2 HP, 240VAC.

Figure 1 - DC Switching Load Limit Curve



T75 series 14 Amp, PC Board Miniature Relay

- 庙 File No. 3919
- **AJ** File E29244
- File LR45064

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 @ 25°C: 1W. Nominal Power @ 25°C: 230mW, typ. Temperature Rise: 85C° per Watt. Duty Cycle: Continuous.

Coil Data

	Nominal Voltage	DC Resistance in Ohms ±10%	Must Operate Voltage	Nominal Coil Current (mA)
	3	40	2.1	75.0
	5	118	3.6	42.4
	6	165	4.3	36.4
DC	9	365	6.4	24.7
Coils	12	650	8.5	18.5
	18	1,455	12.8	12.4
	24	2,270	17.2	10.6
	36	5,460	25.4	6.4
	48	8,790	34.5	5.5
	60	15,265	42.8	3.9

Operate Data @ 25°C

Must Operate Voltage: 72% 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°C. Operating: -40°C to +70°C.

Mechanical Data

Termination: Printed circuit terminals. Enclosures: Immersion cleanable, plastic sealed case. Weight: 0.65 oz. (18.5g) approximately

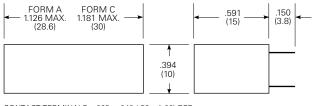
SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL: szss20@163.com

			Typical Part N	lumber 🕨	T75	S	5	D	1	1	2	-12
1.		e, printed circuit bo	oard relay.									
2.	Enclosure: S = Immersion c	leanable, plastic se	aled case.									
3.	Contact Arrang 1 = 1 Form A (SF 5 = 1 Form C (SF	PST-NO)										
4.	Coil Input: D = DC voltage							_				
5.	Coil Configurat 1 = Single coil, n	ion: on-latching (monos	stable)									
6.	Mounting and 1 1 = Printed circu											
7.	Contact Materia 2 = Silver-cadmin	al: um oxide (AgCdO)										
8.	Coil Voltage: 03 = 3VDC 05 = 5VDC	06 = 6VDC 09 = 9VDC	12 = 12VDC 18 = 18VDC	24 = 24VE 36 = 36VE		48 = 48VI 60 = 60VI						

Stock Items - The following items are normally maintained in stock for immediate delivery.

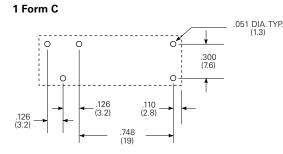
T75S5D112-05 T75S5D112-12 T75S5D112-24

Outline Dimensions



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

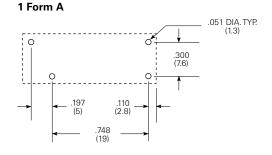
PC Board Layouts (Bottom Views)



Wiring Diagrams (Bottom Views)



* ON SINGLE THROW MODELS, ONLY NECESSARY TERMINALS ARE PRESENT.



Tyco Electronics Corporation - P&B, Winston-Salem, NC 27102 Technical Support Center: 1-800-522-6752, www.pandbrelays.com