

Features

- Up to 12 amp switching capacity.
 UL Class F (155°C) coil insulation system.
- 1 Form A and 1 Form C contact arrangements.
- Ideal for domestic appliances, HVAC and security.
- Resists high temperature and various chemical solutions.

Contact Data @ 20°C

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

Material: Silver-cadmium oxide or silver. Max. Switching Rate: 300 ops./min. (no load). 30 ops./min. (rated load). Expected Mechanical Life: 10 million operations. Expected Electrical Life: 100,000 operations.

Minimum Load: 10mA @ 5VDC

Initial Contact Resistance: Ag: 100 milliohms max. @ 100mA, 6VDC.

AgCdO: 100 milliohms max. @ 1A, 6VDC.

Silver Cadmium Oxide Contact Ratings @ 20°C with relay properly vented. Remove vent nib after soldering and cleaning.

Contact	UL/CSA Ratings	Туре	Operations	
Arrang.				
1 & 5	1/3HP NO @ 120VAC	Motor	6,000**	
	TV-2 NO @ 120VAC	Tungsten	25,000**	
	5.4LRA/0.9FLA NO @ 240VAC	Motor	30,000***	
	10LRA/1.5FLA @ 120VAC	Motor	30,000***	
	12A NO @ 120VAC	Resistive/GP	100,000*	
	34.8LRA/6FLA NO @ 120VAC	Motor	100,000**	
	10A/5A @ 240VAC	Resistive/GP	100,000**	
	10A/5A @ 28VDC	Resistive	100,000**	
	240VA, 240VAC	Pilot Duty	100,000**	
	4LRA/4FLA NO @ 120VAC	Motor	100,000****	
	4LRA/2FLA NC @ 120VAC	Motor	100,000****	
	6LRA/6FLA NO @ 120VAC	Motor	100,000***	
	7A @ 277VAC	Resistive/GP	100,000	
	10LRA/2.5FLA NO @ 277VAC	Motor	100,000	

Consult factory for other ratings

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com

- *Denotes test at 60°C ambient temperature.
 **Denotes test at 70°C ambient temperature.
- ***Denotes test at 85°C ambient temperature.
- ****Denotes test at 105°C ambient temperature.

Silver Contact Ratings @ 20°C with relay properly vented. Remove vent nib after soldering and cleaning.

Contact Arrang.	Ratings	Туре	Operations		
1 & 5	5A @ 120VAC	Resistive	6,000		
	5A @ 28VDC	Resistive	6,000		

T7C series

5 - 12 Amp Miniature **Power PC Board Relay**

File E22575

(3) File LR48471

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.

Initial Dielectric Strength

Between Open Contacts: 750VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 1,500VAC 50/60 Hz. (1 minute).

Initial Insulation Resistance

Between Mutually Insulated Elements: 108 ohms min. @ 500VDC.

Coil Data @ 20°C Voltage: 3 to 48VDC.

Nominal Power: 360 milliwatts.

510 milliwatts for 48VDC coil.

Coil Temperature Rise: 35C° max, at rated coil voltage.

Max. Coil Voltage: 130% of nominal.

Duty Cycle: Continuous.

Coil Data @ 20°C

Rated Coil Voltage (VDC)	Voltage (Ohms) +10%		Must Release Voltage (VDC)		
3	25	2.25	0.15		
5	70	3.50	0.25		
6	100	4.50	0.30		
9	225	6.75	0.45		
12	400	9.00	0.60		
24	1,600	18.00	1.20		
48	4,500	36.00	2.40		

Operate Data @ 20°C

Operate Time: 10 ms (excluding bounce). Release Time: 5 ms (excluding bounce).

Environmental Data

Temperature Range:

Storage: -40°C to +130°C. Operating: -40°C to +85°C

Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude **Operational:** 10 to 55 Hz., 1.5mm double amplitude.

Shock, Mechanical: 100g min. Operational: 10g min. Operating Humidity: 45 to 85% RH.

Mechanical Data

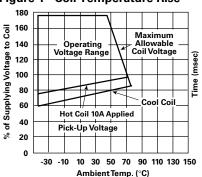
Termination: Printed circuit terminals. **Enclosure (94V-0 Flammability Ratings):**

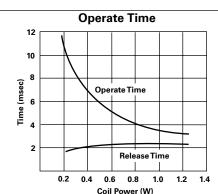
T7CS: Immersion cleanable with knock-off nib.

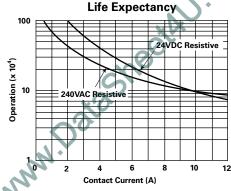
T7CV: Vented, flux-tight, plastic cover with knock-off nib.

Weight: 0.42 oz. (12g).









Note: Graphical data should not be used as a substitute for specific application verification. To be used for estimates only. Graphical data applicable to model with silver cadmium oxide contacts.

Ordering Information

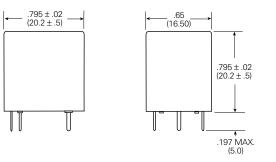
				Typical Part Number	T7C	V	5	D		-24
1.	Basic Series: T7C = Miniature	power relay.								
2. Enclosure: V = Vented (Flux-tight)* S = Immersion cleanable case with knock-off nib.										
3.	3. Contact Arrangement: 1 = 1 Form A (SPST-NO)									
4.	Coil Input: D = DC Voltage									
5. Contact Material: Leave Blank = Silver Cadmium Oxide (12A Max. Rating) 2 = Silver (5A Max. Rating)										
6.	Coil Voltage: 03 = 3VDC 12 = 12VDC	05 = 5VDC 18 = 18VDC	06 = 6VDC 24 = 24VDC	09 = 9VDC 48 = 48VDC						

^{*} Not suitable for immersion cleaning processes.

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

T7CV5D-05	T7CV5D-12	T7CS5D-05	T7CS5D-12
T7CV5D-06	T7CV5D-24	T7CS5D-06	T7CS5D-24

Outline Dimensions



Movable Contact Terminal: .012 x.039 (0.3 x 1.0) Stationary Contact Terminals: .012 x .039 (0.3 x 1.0) Coil Terminals: .022 x .022 (.56 x .56)

Wiring Diagrams (Bottom Views)

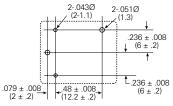
1 Form A

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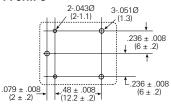


Suggested PC Board Layouts (Bottom Views)

1 Form A



1 Form C

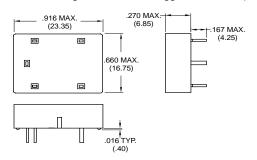


1 Form C



Socket

27E1064 socket is rated 10A @ 300VAC. UL Recognized for US and Canada. Designed to fit same suggested board layout as relay.



Hold-Down Spring

20C430 spring is designed to secure T7C relay in 27E1064 socket.

