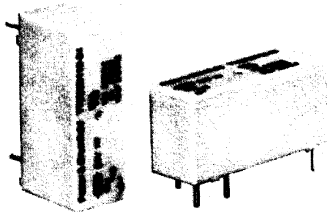


**SENSITIVE, LOW PROFILE, HI-CURRENT  
RELAY DESIGNED TO MEET  
INTERNATIONAL STANDARDS**



**FEATURES**

- High sensitivity – nominal coil power requirement is as low as 212mW.
- Low profile, .591 in. (15 mm) tall case uses only .465 in<sup>2</sup> (3cm<sup>2</sup>) 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<sup>§</sup>, ultrasonically sealed case.
- Well suited for a broad range of applications e.g. HVAC, appliances, security and industrial control.

§ For additional details, refer to application note 13C265, "Mounting, Termination and Cleaning of PC Board Relays."

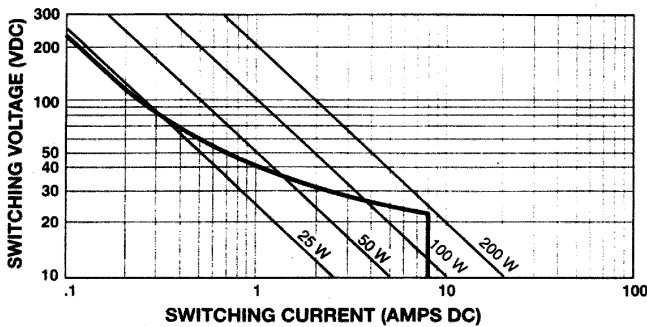
**CONTACT DATA @ 25 C**

**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**



**INITIAL DIELECTRIC STRENGTH**

**Between Open Contacts:** 1,000V rms.  
**Between Contacts and Coil:** 4,000V rms, 8 mm.

**T75 series**

**14 AMP, PC BOARD  
MINIATURE RELAY**

△ VDE-Reg. No. 3919

RU File E29244

Ⓢ File LR45064

**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)
DC Coils	3	40	2.1	75.0
	5	118	3.6	42.4
	6	165	4.3	36.4
	9	365	6.4	24.7
	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.

**ENVIRONMENTAL DATA**

**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. (18.5 g) approximately.