

Features

- Latching relay with 1 or 2 coils.SPDT (16A) and DPDT (8A) contact arrangements.
- Flux tight enclosure.
- Meets VDE 10mm spacing, 5kV dielectric, coil to contacts.
- Conforms to UL 508, 1873 and 353.
- UL Class F (155°C) coil construction
- Schrack brand

Contact Data

Arrangements: 1 Form C (SPDT) Wiring Diagram Code 3. 2 Form C (DPDT) Wiring Diagram Code 5.

Material: Silver-nickel 90/10. Minimum Load: 12V/100mA.

Expected Mechanical Life: 5 million operations, 1 pole.

2 million operations, 2 pole.

Designed to meet UL/CSA/VDE ratings with relay properly vented. Remove vent nib after soldering and cleaning.

UL/CSA ratings @ 70°C:

Code	NO/NC Load	Туре	Operations	
3	16A/8A @ 240VAC	GP	6K	
	8A @ 28VDC			
	1/2 HP @ 120VAC*			
	1HP @ 240VAC*	@ 240VAC* Motor		
	48 LRA, 8 FLA @ 240VAC	Motor	30K	
	B300	Pilot Duty	6K	
5	8A @ 240VAC	Resistive	30K	
	8A @ 28VDC	Resistive/GP	30K	
	1/2 HP @ 240VAC	Motor	6K	
	1/4 HP @ 120VAC	Motor	6K	
	B300	Pilot Duty	6K	

^{*} Form A only

VDE Ratings @ 70°C:

Code	NO/NC Load	Туре	Operations
3	16A@ 250VAC	Resistive	10K
	8A @ 250VAC	Resistive	30K
5	8A @ 250VAC 8A @ 250VAC	Resistive Resistive	30K 100K

Initial Dielectric Strength

Between Open Contacts: >1,000VAC (1 minute). Between Poles (code 5): >2,500VAC (1 minute). Between Coil and Contacts: >5,000VAC (1 minute) Creepage/Clearance, Coil to Contact: 10/10mm.

RT series (Latching) 16 Amp Miniature **Printed Circuit Board Relay**

c¶1us File E38891

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users 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.

Coil Data @ 20°C

Voltage: 5 to 24VDC*, 1 coil. 3 to 24VDC*, 2 coil.

Nominal Power @ 25°C: 400mW, 1 coil. 600mW, 2 coil.

Duty Cycle: Continuous.

Initial Insulation Resistance: 10,000 megohms, min., at 20°C, 500VDC

and 50% rel. humidity.

Coil Construction: UL Class F (155°C).

1 Coil Data

Nominal Voltage VDC	DC Resistance in Ohms ±10%	Set Voltage VDC	Reset Voltage VDC	Nominal Coil Current (mA)
05	62	3.5 - 6.0	2.75-6.0	80.0
06	90	4.2 - 7.2	3.30-7.2	66.7
12	360	8.4 - 14.4	6.60 — 14.4	33.3
24	1,440	16.8-28.8	13.20—28.8	16.7

2 Coil Data

Nominal Voltage VDC	DC Resistance in Ohms ±10%	Set Voltage VDC	Reset Voltage VDC	Nominal Coil Current (mA)
05	42	3.5-7.5	2.75-4.5	120.0
06	55	4.2-9.0	3.30-9.0	108.0
12	240	8.4-18.0	6.60-18.0	50.0
24	886	16.8-36.0	13.20-36.0	27.0

Operate Data @ 20°C

Must Operate Voltage: See coil data.

Operate Time (Excluding Bounce): 5 ms, typ., at nom. voltage. Release Time (Excluding Bounce): 4 ms, typ., at nom. voltage.

Max. Switching Rate: 360 ops. at rated load.

Environmental Data

Temperature Range:

Storage: -40°C to +105°C.

Operating: -40°C to +70°C at rated current.

Vibration: 30 - 500 Hz:

N/C opens at >3g and changes from reset to set at >5g; Shock: N/C opens at >6g and changes from reset to set at >15g.;

Mechanical Data

Termination: Printed circuit terminals.

Enclosures: RT 3, 4: Flux-tight, top vented, plastic case.

Weight: 0.46 oz. (13g) approximately.

^{*} Other coil voltages upon request.

Ordering Information (Latching Model)

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Typical Part Number ▶ RT	3	2	4	A05
1. Basic Series:				
RT = Miniature, printed circuit board relay.				
2. Enclosure: 3 = 1 pole 16A, Pinning 5mm, flux-tight (Code 3). 4 = 2 pole 8A, Pinning 5mm, flux-tight (Code 5).				
3. Contact Arrangement: 1 = 1 Form C (SPDT) (Requires wiring diagram code 3.) 2 = 2 Form C (DPDT) (Requires wiring diagram code 5.)				

2 = 2 Form C (DPDT) (Requires wiring diagram code 5.)

4. Contact Material:

4 = Silver-nickel 90/10

5. Coil Voltage:

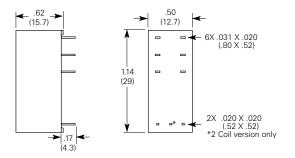
1 Coil	2 Coil	Voltage
A05	F05	= 5VDC
A06	F06	= 6VDC
A12	F12	= 12VDC
A24	F24	= 24VDC

Note: All latching model RT part numbers are Schrack brand, are orange in color and have UL Class F (155°C) coil construction.

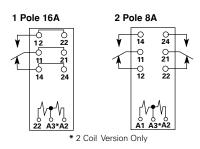
Our authorized distributors are more likely to stock the following items for immediate delivery.

None at present.

Outline Dimensions



Wiring Diagrams (Bottom View)



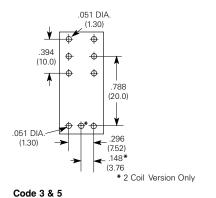
Code 5 Code 3

	1 Coil		2 Coils		
Coil Terminals	A1	A2	A1	А3	A2
Operate	+	-		+	-
Reset	-	+	-	+	

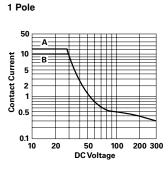
Contact position not defined at delivery.

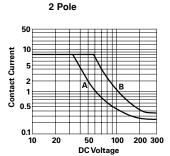
PC Board Layout (Bottom View)

1 Pole 16A 2 Pole 8A 5mm



Breaking Capacity





A: 16A Version. B: 12A Version. A: 1 Contact. B: 2 Contacts in series.