

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	Resistive	30K	
	1/2 HP @ 120VAC*	Motor	6K	
	1HP @ 240VAC*	Motor	6K	
	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	Resistive	30K
	8A @ 250VAC	Resistive	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.

Dimensions are in inches over (millimeters) unless otherwise specified.

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

CRU's File E38891

🞰 NR 6106

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).

* Other coil voltages upon request.

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.

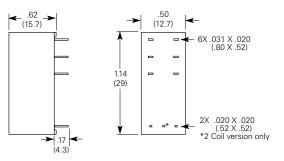
Specifications and availability subject to change.

tyco				og 1308242				COUDAON
Electronics	Information (Latching Model)	ISS	ued 3-03				SCHRACK
Ordering	information (Latching woder)				-	_	
		Ту	pical Part Number 🕨	RT	3	2	4	A05
1. Basic Ser RT = Min	r ies: iature, printed cir	cuit board relay.						
	e 16A, Pinning 5r	nm, flux-tight (Code 3 m, flux-tight (Code 5)						
1 = 1 For		uires wiring diagram uires wiring diagram						
4. Contact I 4 = Silver	Vaterial: nickel 90/10.							
5. Coil Volta	ige:							
1 Coil	2 Coil	Voltage						
A05	F05	= 5VDC						
A06	F06	= 6VDC						
A12	F12	= 12VDC						
A24	F24	= 24VDC						

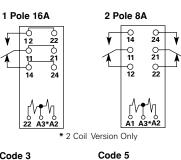
Note: All latching model RT part numbers are Schrack brand, are orange in color and have UL Class F (155°C) coil construction.

Our authorized distributors are more likely to stock the following items for immediate delivery. None at present.

Outline Dimensions



Wiring Diagrams (Bottom View)



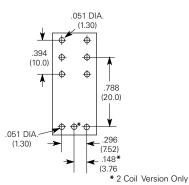
Code 3

	10	1 Coil		2 Coils		
Coil Terminals	A1	A2	A1	A3	A2	
Operate	+	-		+	-	
Reset	-	+	-	+		

Contact position not defined at delivery.

PC Board Layout (Bottom View)





Code 3 & 5

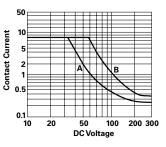
50 ٠A 10 Contact Current B 5 2 1 0.5 0.1 └─ 10 50 10 DC Voltage 20 100 200 300

Breaking Capacity

1 Pole

A: 16A Version. B: 12A Version.

2 Pole



A: 1 Contact. B: 2 Contacts in series.

Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.