

Features

- 1 Form A (SPST-NO).
- 16 amp models handles up to 120A peak inrush current.
- 4kV/8mm contact-to-coil.
- · Latching and non-latching types.

Contact Data

Arrangements: 1 Form A (SPST-NO), single contact. Material: Silver-tim oxide. Expected Mechanical Life: 30 million operations. Ratings: Current: 16A Voltage: 250VAC Power (breaking): 4,000VA Voltage (breaking): 440VAC Make Current (max 4s at 10% duty cycle): 25A Peak Inrush Current: 120A Load/Life 12A, 250VAC, $\cos \varphi = 1$; 300,000 ops. TV8; 25,000 ops. 2,500W, 230VAC, Halogen lamps; > 10,000 ops. 1,000W, 250VAC, Incandescent lamps; 230,000 ops. 3,000W, 250VAC, Incandescent lamps; 36,000 ops. 1,500VA, Fluorescent lamps, 163µF; 10,000 ops.

Initial Dielectric Strength

Between Open Contacts: 2,000Vrms Between Coil and Contacts: 4,000Vrms. Creepage/Clearance: 8/8mm.

Coil Data DC @ 20°C

Nominal Coil Power: Non-latching: 500mW. Dual-coil latching: 1.2 - 1.5W

Nominal Voltage VDC	DC Resistance in Ohms	Must Operate Voltage VDC	Drop-out Voltage VDC	Maximum Voltage VDC	Nominal Coil Current (mA)							
Non-Latching Models												
12	270 ± 10%	9.0	1.2	21.6	44.4							
24	1,100 ± 15%	18.0	2.4	43.2	21.8							
48	4,400 ± 15%	36.0	4.8	86.4	10.9							
60	6,540 ± 15%	45.0	6.0	108.0	9.2							
	DC	Must			Nominal							
Nominal	Resistance	Operate	Reset	Reset	Coil							
Voltage	in	Voltage	Voltage	R1	Current							
VDC	Ohms	VDC	VDC	Ohms / W	(mA)							
Single-coil Latching Models – Reset Voltage 70-110% of Nom.												
5	21 ± 10%	3.7	3.6	39 / 0.5	238.1							
12	115 ± 10%	9.0	8.7	220 / 0.5	104.3							
24	460 ± 10%	18.0	16.7	820 / 0.5	52.2							
Dual-coil Latching Models – Reset Voltage 75-120% of Nom.												
12	105 ± 15%	9.0	9.0	-	114.3							
24	460 ± 15%	18.0	18.0	1	52.2							

Operate Data

Must Operate Voltage: See Coil Data table. Operate / Release Time (Non-latching, typical): 8 ms / 2 ms. Operate / Reset Time (Latching, typical): 6 ms / 2 ms. Bounce Time (typical): 2 ms. Switching Rate: 6.000 ops./hr. max. at rated load.

RP 3 SL series 16 Amp, 1 Pole PC Board Relay for High Inrush Loads

Sile E214025

VDE KEUR

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.

Environmental Data

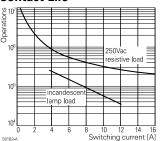
Temperature Range:

Operating: -40°C to +70°C. Vibration (30-300 Hz.): 20g. Shock (destructive): 100g.

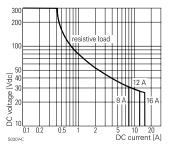
Mechanical Data

Termination: Printed circuit terminals. Enclosure: Flux-tight (RT II) plastic case or sealed (RT III) cover. Weight: .63 oz. (18 g) approximately.

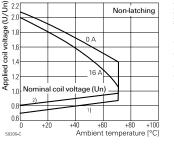
Contact Life

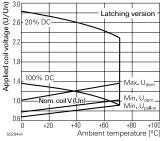


Max. DC Load Breaking Capacity



Coil Operating Range





Non-Latching Models

Latching Models

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

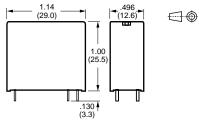
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Single-coil latching: 1.2 - 1.4W.

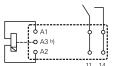
tyco Electronics	Catalog 1308242 Issued 3-03									
Ordering Information										
	Typical Part Number ► RP				3	SL	F12			
1. Basic Series: RP = Printed circuit board rela	ay.				-					
2. Version: 3 = Flux tight. 7 = Se	aled.					-				
3. Contact Arrangement / Mat SL = 1 Form A (SPST-NO), Silv										
4. Coil Voltage: Non-Latching Models: Single-Coil Latching Models: Dual-Coil Latching Models:	012 = 12VDC A05 = 5VDC F12 = 12VDC	024 = 24VDC A12 = 12VDC F24 = 24VDC	048 = 48VDC A24 = 24VDC	060 = 60VDC				_		

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

Outline Dimensions



Wiring Diagram (Bottom View)

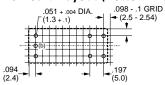


Terminal b) only present on two-coil latching models

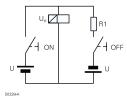
Latching Versions: Contact position shown results during or after Coil energization with reset voltage.

Two-Coil Versions: Operate: A2, A3 Reset A1, A3

PC Board Layout (Bottom View)



Circuit Diagram for Single-Coil Latching Model



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