RELAY

POWER RELAY LARGE SIZE-TYPE RPL

R SERIES

INTRODUCTION:
Adam Tech RPL relays are high power, modern relays, available in industry standard packages and can switch loads up to 30 amps. Available in both a PCB package and a combination PCB/Quick Connect terminal package, these relays are designed for applications such as Spa/Pool controls, HVAC, and large appliances.

FEATURES:
30 Amp Switching capability
PCB and PCB/Top mount packages
Industry Standard footprint

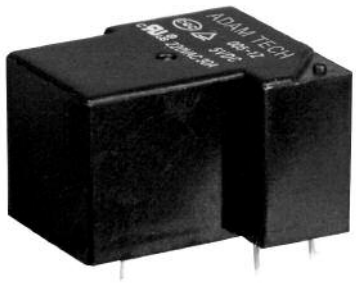
SPECIFICATIONS:
ELECTRICAL:
Contact arrangement: 1 Form A & 1 Form C
Contact material: Silver Alloy
Contact Rating (Resistive load): 30A @ 220V AC
30A @ 30V DC
Max. Switching Voltage: 220V AC / 30V DC
Max. Switching Power: 6600VA / 900W
Contact resistance: 50 mΩ max. Initial
Insulation resistance: 100 MΩ min. @ 500V DC
Dielectric withstanding voltage:
Between Coil & Contact: 2500V AC 50/60Hz for 1 min.
Between Contacts: 1500V AC 50/60Hz for 1 min.
Operating time: 15 ms max.
Release time: 10 ms max.
Electrical Life: 100,000 Operations (at rated load)

MECHANICAL:
Vibration resistance (Endurance): 1.5mm Double Amplitude 10-55Hz
Shock resistance: 10G min.
Mechanical Life: 10,000,000 Operations (no load)

TEMPERATURE RATING:
Ambient temperature: -55°C to +85°C

PACKAGING:
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:
cUL Recognized File No. E305638



ORDERING INFORMATION
POWER RELAY

RPL	1C	P	24

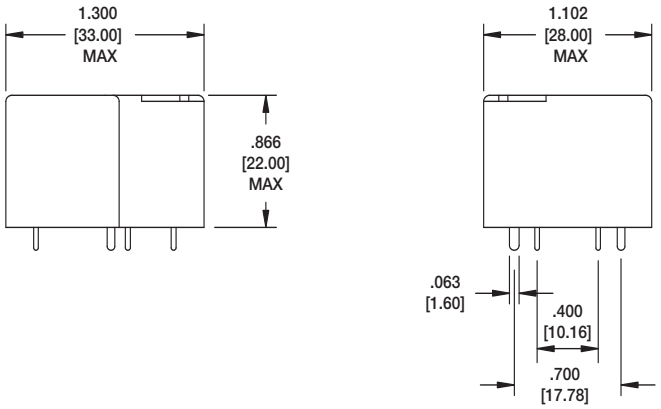
SERIES INDICATOR
RPL = Power Relay

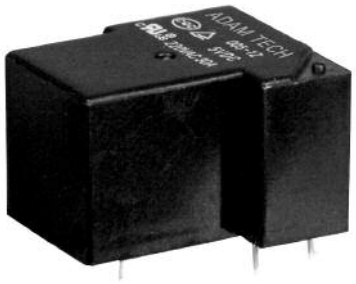
CONTACT FORM
1A = 1 form A
1C = 1 form C

TERMINALS
P = PCB Terminals only
TCN = PCB Terminals and Top Contacts

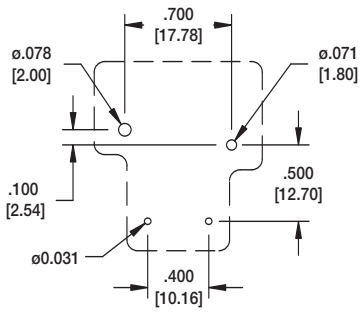
COIL VOLTAGE
5 = 5V DC
6 = 6V DC
9 = 9V DC
12 = 12V DC
24 = 24V DC
48 = 48V DC

RPL SERIES

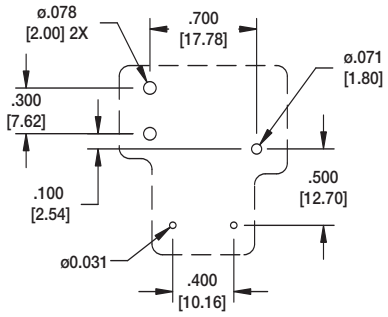




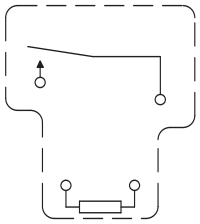
RPL-1C-P-12



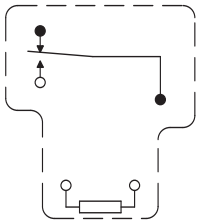
Recommended PCB Layout
1 Form A



Recommended PCB Layout
1 Form C



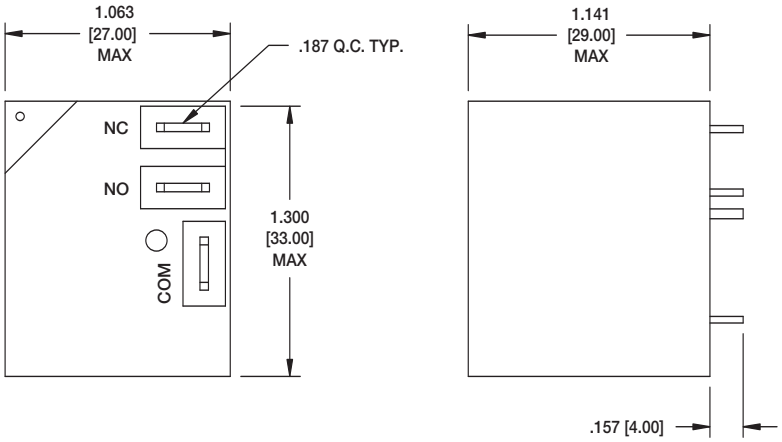
Schematic
1 Form A

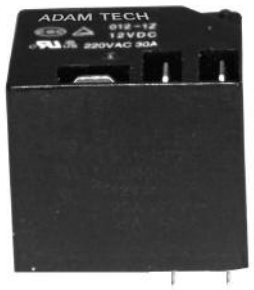


Schematic
1 Form C

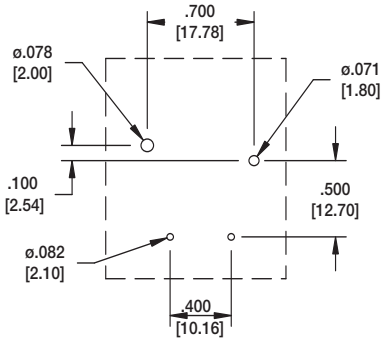
Nominal Voltage V DC	Pick-up Voltage V DC (max.)	Drop-out Voltage V DC (min.)	Coil Resistance (±10%)	Nominal Operating Power mW	Max allowable Voltage V DC
5	3.75	0.5	31	900	6
6	4.5	0.6	40	900	6.6
9	6.75	0.9	101	900	10.8
12	9.0	1.2	160	900	13.2
24	18.0	2.4	640	900	26.4
48	36.0	4.8	2,560	900	52.8

RPL SERIES (TOP CONTACTS)

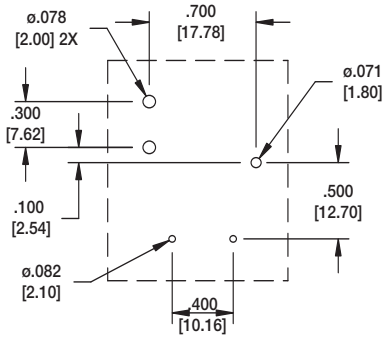




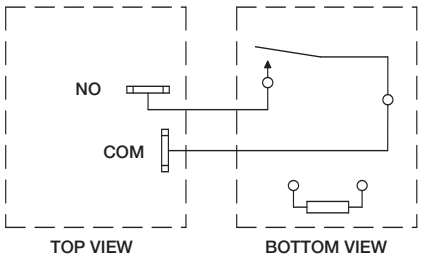
RPL-1C-TCN-12



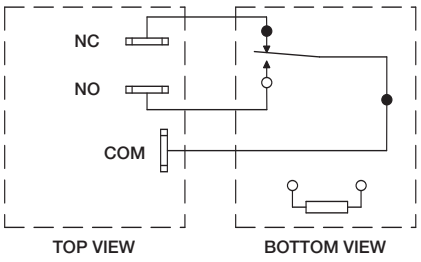
Recommended PCB Layout
1 Form A



Recommended PCB Layout
1 Form C



Schematic
1 Form A



Schematic
1 Form C

Nominal Voltage V DC	Pick-up Voltage V DC (max.)	Drop-out Voltage V DC (min.)	Coil Resistance (±10%)	Nominal Operating Power mW	Max allowable Voltage V DC
5	3.75	0.5	31	900	6
6	4.5	0.6	40	900	6.6
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