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4-point Terminal

Power PhotoMOS

(Voltage sensitive type)]

Power PhotoMOS (Voltage sensitive type)

[PA relay,

Mountable relay

PA relay

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Slim, Space-saving, 4-point Unit Relay



FEATURES

1. Slim, space-saving type (33 mm 1.299 inch wide) with four independent points on a base measuring 33 \times 67 mm 1.299 \times 2.638 inch. This contributes to a more compact control panel.

2. PA relays, which have high sensitivity Au clad twin contacts, are installed.

PA relays, 5 mm .197 inch wide, are installed. The PA relays feature high sensitivity (12 V type: 120 mW, 24 V type: 180 mW) and twin contacts with Au-cladding, which combine to ensure high reliability even with minute loads.

3. Can be mounted on a DIN rail or mounted directly (by screw).

4. Equipped with an LED display to allow easy confirmation of operation.

5. Possible to select relay for use in the 4-point terminal in accordance with load.

RoHS compliant

TYPES

1. RT-3 Unit relay

RT-3 Unit relay

Contact arrangement	Rated input voltage	Part No.
1 Form A × 4	12 V DC	RT3S-12V
T FOIII A × 4	24 V DC	RT3S-24V

Standard packing: Carton: 1 pc.; Case: 20 pcs.

Notes: 1. Cannot be equipped with Power PhotoMOS standard type relays. However, equipping with voltage-sensitive type of Power PhotoMOS relays is possible. 2. 5 V DC units are also available. Please inquire.

3. Please inquire about other contact arrangement.

2. 4-point Terminal

Туре	Rated input voltage	Part No.				
PA relay, Power PhotoMOS (Voltage sensitive type)	12, 24V DC	RT3BB				
Standard posting: Cartan: 1 no. (Casa: 20 no.						

Standard packing: Carton: 1 pc.; Case: 20 pcs.

3. Mountable relays for 4-point Terminal (per relay, at 25°C 77°F, initial)

Product Name	Part No.
PA relay	PA1a-12V, PA1a-24V
Power PhotoMOS (Voltage sensitive type)	AQZ10*D (DC only)
	AQZ20*D (AC/DC dual use)

Note: Never install relays into this product other than those given above. Doing so will cause malfunction, breakdown, and breakdown of the connected product.

RATING

1. RT-3 Unit relay

1) Input ratings (per PA relay)

Part No.	Rated input voltage	Input current (at rated input voltage, 20°C 68°F)	Allowable variation of rated input voltage (-20 to +55°C -4 to +131°F)
RT3S-12V	12 V DC	Approx. 11.5 mA (Relay 10 mA + LED 1.5 mA)	12 V DC ± 10%
RT3S-24V	24 V DC	Approx. 10.5 mA (Relay 7.5 mA + LED 3 mA)	24 V DC ± 10%

松下继电器价格查询0532-58808751

RT-3 Unit Relay/4-point Terminal (PA Relay type)

2) PA relay coil specifications (reference value)

Relay part No.	Pick-up voltage (Initial) (at 20°C 68°F)	Drop-out voltage (Initial) (at 20°C 68°F)	Coil resistance (±10%) (at 20°C 68°F)	Nominal operating power
PA1a-12V	70%V or less	5%V or more	1,200 Ω	120 mW
PA1a-24V	PA1a-24V of nominal voltage	of nominal voltage	3,200 Ω	180 mA

3) Output ratings (per PA relay)

Specification	Item	Specifications
Contact rating	Rated control capacity (resistive load)	3 A 250 V AC, 3 A 30 V DC
	Maximum allowable contact power (resistive load)	500 VA (AC), 60 W (DC)
	Maximum allowable contact voltage	250 V AC, 30 V DC
	Maximum allowable contact current	3 A
	Minimum load (reference value)	100 mV 100 μA
Expected life	Electrical (resistive load)	
	Mechanical	Min. 2×10^7 (at 180 times/min.)

Note: During 4-point simultaneous operation, the rating per point is also as shown above.

2. 4-point Terminal

1) Input ratings (per relay)		
Rated input voltage	Allowable variation of rated input voltage	Allowable input voltage
12, 24V DC	12V DC±10%, 24V DC±10%	0.2A

Note: The input voltage value above is the allowable current when no relay is installed. Please note that input voltage is determined by the type of relay installed.

2) Input rating when PA relay installed (per relay, at 20°C 68°F)

Туре	Rated voltage input	Operate voltage (Initial) Release voltage (Initial)		Input current (during application of rated input voltage)	
PA1a-12V	12V DC	Max. 9.5V DC (Relay max. 8.4V + include diode max. 1.1V)	Min. 1.0V DC (Relay min. 0.6V + include diode min. 0.4V)	Approx. 11.5mA (Relay 10mA + LED 1.5mA)	
PA1a-24V	24V DC	Max. 17.9V DC (Relay max. 16.8V + include diode max. 1.1V)	Min. 1.6V DC (Relay min. 1.2V + include diode min. 0.4V)	Approx. 10.5mA (Relay 7.5mA + LED 3mA)	

Input rating when Power PhotoMOS voltage sensitive type installed (per relay, at 25°C 77°F)

Туре	Rated voltage input	Operate voltage (Initial)	Release voltage (Initial)	Input current (during application of rated input voltage)
AQZ*0*D	12, 24V DC	Max. 5.1V DC (Relay max. 4.0V + include diode max. 1.1V)	Min. 1.2V DC (Relay min. 0.8V + include diode min. 0.4V)	Approx. 10.0mA (Relay 7.0mA + LED 3mA)

4) Output rating (per relay)

Allowable load voltage	Allowable load current
600V (DC), 600V (AC peak value)	3A

Note: The value above is the allowable value when no relay is installed.

Please note that limitations apply to the load voltage and current depending on the type of relay installed.

5) Output rating when PA relay installed (per relay, at 20°C 68°F)

Specification	Item	Specifications	
	Rated control capacity (resistive load)	3 A 250 V AC, 3 A 30 V DC	
	Maximum allowable contact power (resistive load)	750 VA (AC), 90 W (DC)	
Contact rating	Maximum allowable contact voltage	250 V AC, 30 V DC	
	Maximum allowable contact current	3 A	
	Minimum load (reference value)	100 mV 100 μA	
Expected life	Electrical (resistive load)	Min. 3×10 ⁴ : 3 A 250V AC, 3 A 30V DC Min. 10 ⁵ : 2 A 250V AC, 2 A 30V DC	
·	Mechanical	Min. 2×107 (at 180 times/min.)	

Note: During 4-point simultaneous operation, the rating per point is also as shown above.

6) Output rating when Power PhotoMOS voltage sensitive type installed (per relay, at 25°C 77°F)

Possible relays Maximum load voltage Continuo		Continuous load current Possible		e relays	Maximum load voltage	Continuous load current	
Туре	Part No.	(DC, AC peak value)	(DC, AC peak value)	Туре	Part No.	(DC, AC peak value)	(DC, AC peak value)
DC only	AQZ102D	60V	1.80A	AC, DC dual use	AQZ202D	60V	1.350A
	AQZ105D	100V	1.15A		AQZ205D	100V	0.900A
	AQZ107D	200V	0.55A		AQZ207D	200V	0.450A
	AQZ104D	400V	0.30A		AQZ204D	400V	0.225A

Notes: 1. During 4-point simultaneous operation, the rating per point is also as shown above.

2. Please use a load current that is within the range of the data given below in "REFERENCE DATA Load current vs. ambient temperature characteristics".

RT-3 Unit Relay/4-point Terminal (PA Relay type)

SPECIFICATIONS

RT-3 Unit relay/4-point Terminal

Item		Specifications
Breakdown voltage	Between input and output	2,000 Vrms for 1 min.
	Between different terminals (between relays, both ways)	1,500 Vrms for 1 min.
Insulation resistance		Min. 100 MΩ (Using 500 V DC megger)
Vibration resistance (destructive)		10 to 55 Hz at double amplitude 1 mm .039 inch
Vibration resistance (functional)		10 to 55 Hz at double amplitude 1 mm .039 inch
Shock resistance (destructive)		Min. 196 m/s ²
Shock resistance (functional)		Min. 98 m/s ²
Ambient temperature		-20°C to +55°C -4°F to +131°F
Ambient humidity		35% to 85% R.H. (Not condensing)
Storage temperature		-30°C to +80°C -22°F to +176°F (Not freezing and condensing)
Terminal screw fasten torque		0.3 to 0.5 N·m
Coil surge absorber		Diode (1A, 400V)
Cross connection protecting diode		1.5 A, inverse voltage 40 V
Unit weight		Approx. 100 g 3.53 oz

Notes: 1. The value of breakdown voltage and insulation resistance is the initial one.

2. Condensing occurs when the unit relay is exposed to sudden temperature change in a high temperature and high humidity atmosphere.

This may cause some troubles like insulation failure of the socket or the print circuit board. Take care under this condition.

3. Below 0°C 32°F, condensing water can freeze and cause socket contact failures and other problems. Take care under this condition.

characteristics (DC only)

REFERENCE DATA

1. Maximum value for switching capacity (output)





2. Load current vs. ambient temperature

3. Load current vs. ambient temperature characteristics (AC/DC dual use)



DIMENSIONS (mm inch)

1. External dimensions →I^{7,621}



2. Schematic



Output terminal socket portion

Note: It is PA relay type. Cannot be equipped with Power PhotoMOS standard type relays. However, equipping with voltage sensitive type of Power PhotoMOS is possible.

The polarities of the output terminal socket are for the DC only type (equipped with AQZ10*D)

3. Mounting hole pattern



General tolerance: ±0.3 ±.012 山东省青岛 www.yusungs.com