## TAKAMISAWA (Fujitsu) Power Relay 1 POLE-5A NYP24W-K

#### Features

- Slim type with 5mm thickness
- Low power consumption and high sensitivity



#### Coil Specifications

| Model    | Rated voltage | Must operate voltage | Must release voltage | Rated current | Coil resistance | Power consumption |
|----------|---------------|----------------------|----------------------|---------------|-----------------|-------------------|
| NYP24W-K | 24VDC==       | 16.1V                | 2.4V                 | 5mA           | 4,800Ω          | 120mW             |

%All values in the table are measured at 20  $^\circ C$  with a tolerance of ±10%.

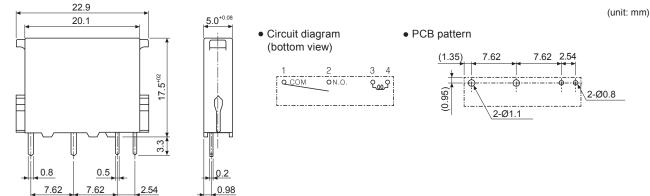
#### Contact Specifications

|                               | •                             |                       | 1   |  |  |  |
|-------------------------------|-------------------------------|-----------------------|---|--|--|--|
| Manufactu                     | cture                         |                       | TAKAMISAWA (Fujitsu)                                    |  |  |  |
| Model                         |                               |                       | NYP24W-K  |  |  |  |
|                               | Arrangeme                     | ent                   | 1 Form A (SPST-1a)                                      | 1 Form A (SPST-1a)                                     |  |  |
| Contact                       | Material                      |                       | Gold overlay silver alloy                               |  |  |  |
|                               | Resistance                    | e (initial)           | 30mΩ (6VDC 1A)  |  |  |  |
|                               | Rated load                    | 1                     | 3A 250VAC~  | 3A 30VDC   |  |  |
|                               | Max. switc                    | hing capacity         | 750VA   | 90W  |  |  |
| Rating                        | Min. switch                   | ning capacity         | 5VDC 1mA  |  |  |  |
|                               | Max. switc                    | hing voltage          | 270VAC~   | 150VDC   |  |  |
|                               | Max. switc                    | hing current          | 5A  |  |  |  |
| s                             | Insulation                    | resistance            | ≥ 1,000MΩ (at 500VDC megger)                            |  |  |  |
| Electrical characteristics    | Dielectric                    | Between contact-coil  | 3,000VAC 50/60Hz for 1 minute                           |  |  |  |
| charac                        | strength                      | Between open contacts | 750VAC 50/60Hz for 1 minute                             |  |  |  |
| ical                          | Surge volt                    | age                   | 5,080V  |  |  |  |
| ectr                          | Operate tir                   | ne                    | ≤ 10ms  |  |  |  |
|                               | Release ti                    | me                    | ≤ 5ms   |  |  |  |
| ics –                         | ) (ib and i a a               | Mechanical            | 5.0mm amplitude at frequency of 10 to 55H               | lz (for 1 min) in each X, Y, Z direction for 1 hour    |  |  |
| anica                         | Vibration                     | Malfunction           | 1.5mm amplitude at frequency of 10 to 55H               | Iz (for 1 min) in each X, Y, Z direction for 10 minute |  |  |
| Mechanical<br>characteristics |                               | Mechanical            | 1000m/s² (approx. 100G) in each X, Y, Z dii             | rection for 3 times                                    |  |  |
| cha                           | Shock                         | Malfunction           | 100m/s <sup>2</sup> (approx.10G) in each X, Y, Z direct | tion for 3 times                                       |  |  |
| Life                          | Mechanica                     | al                    | ≥ 20,000,000 operations (at 180 operations/min)         |  |  |  |
| expectancy                    | ancy Electrical <sup>×1</sup> |                       | ≥ 100,000 operations (3A 250VAC, 30VDC resistive load)  |  |  |  |
| Environ-                      | Ambient te                    | emperature            | -40 to 90°C   |  |  |  |
| ment                          | Ambient h                     | umidity               | 35 to 80%RH   |  |  |  |
| Weight                        | 1                             | -                     | Approx. 3.5g  |  |  |  |
| -                             |                               |                       |   |  |  |  |

%1: 50,000 operations: 5A 250VAC, 5A 30VDC resistive load (per 20 operations/min)

\*Environment resistance is rated at no freezing or condensation.

#### Dimensions



# **Power Relay**

I/O Terminal Block

AFS(Interface Terminal Block) AFL/AFR(Interface Terminal Block)

ACS(Common Terminal Block) AFE(Sensor Conne Terminal Block)

ABS(Relay Terminal Block)

ABL(Relay Terminal Block Power Relay

RS Automation

I/O Cables MITSUBISHI LSIS Autonics

# MATSUSHITA (Panasonic) Power Relay 1 POLE-5A PA1a-24V

#### Features

- Slim type with 5mm thickness
- Excellent durability resistance against vibration and shock



### Coil Specifications

| Model    | Rated voltage | ge Must operate voltage Must release voltage |                        | Rated<br>current | Coil<br>resistance | Power consumption |
|----------|---------------|--|------------------------|------------------|--------------------|-------------------|
| PA1a-24V | 24VDC==       | ≥ 70% of rated voltage                       | ≤ 70% of rated voltage | 7.5mA            | 3,200Ω             | 180mW             |

%All values in the table are measured at 20  $^\circ\!C$  with a tolerance of ±10%.

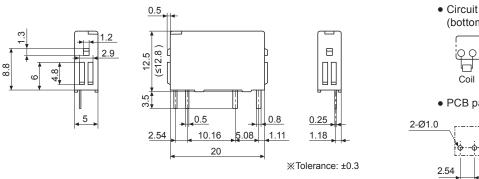
#### Contact Specifications

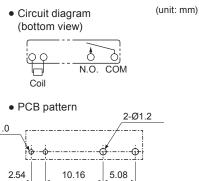
| Conta                         | tact Specifications                |   |  |   |     |  |
|-------------------------------|------------------------------------|---|--|---|-----|--|
|                               | Manufacture MATSUSHITA (Panasonic) |   |  |   |     | YOKOGAWA   |
| Model                         |                                    |   | PA1a-24V   |   |     | FUJI   |
| Niuuei                        | Arrangeme                          |   | 1 Form A (SPST-1a)   |   | -   | KDT  |
| Contact                       |                                    | <u>nı</u>   |  |   | -   | OMRON  |
| Contact                       | Material                           | · (::::::=1)  | Au-clad AgNi type  |   | -   | TELEMECANIQUE  |
|                               | Resistance                         | ( )   | 30mΩ (6VDC 1A)   | 1   | -   | For SERVO  |
|                               | Rated load                         |   | 5A 250VAC~   | 5A 30VDC  | 4   | Open Type Cables                                       |
|                               |                                    | hing capacity   | 1,250VA  | 150W  | _   | Cable Appearance                                       |
| Rating                        |                                    | ning capacity   | 100mVDC=== 100uA   |   | _ r |  |
|                               | Max. switch                        | hing voltage  | 250VAC~  | 110VDC  | F   | Remote I/O   |
|                               | Max. switch                        | hing current  | 5A   |   |     | ARD(DeviceNet Digital<br>Standard Terminal Type)       |
|                               | Insulation r                       | esistance   | ≥ 1,000MΩ (at 500VDC megger)                                 |   |     | ARD(DeviceNet Digital<br>Sensor Connector Type)        |
| ics.                          | Dielectric                         | Between<br>contact-coil 2,000VAC 50/60Hz for 1 minute |  |   |     | ARD(DeviceNet Analog<br>Standard Terminal Type)        |
| Electrical<br>characteristics | strength                           | Between open contacts                                 | 1,000VAC 50/60Hz for 1 minute                                |   |     | ARM(Modbus Digital<br>Sensor Connector Type)<br>Others |
| Har:                          | Surge volta                        | age   | 4,000V   |   | 1 [ |  |
| 0                             | Operate tim                        | ne  | ≤ 10ms   |   | 1   | Sensor Connectors                                      |
|                               | Release tin                        | ne  | ≤ 5ms  |   | 1   | Sockets  |
| ic al                         |                                    | Mechanical  | 3.5mm amplitude at frequency of 10 to 55Hz (                 | (for 1 min) in each X, Y, Z direction for 1 hour    | 1   | Sensor Distribution<br>Boxes                           |
| anica                         | Vibration                          | Malfunction   | 2.5mm amplitude at frequency of 10 to 55Hz /                 | (for 1 min) in each X, Y, Z direction for 10 minute | 1   | Valve Plugs  |
| Mechanical<br>characteristics |                                    | Mechanical  | 980m/s <sup>2</sup> (approx. 100G) in each X, Y, Z direction | ion for 3 times                                     | 1   | Thumbwheel<br>Switches                                 |
| cha M                         | Shock                              | Malfunction   | 147m/s <sup>2</sup> (approx. 15G) in each X, Y, Z direction  | un for 3 times                                      | 1   |  |
| Life                          | Mechanical                         |   | ≥ 20,000,000 operations (at 180 operations/mi                | in)   | 1   |  |
| expectancy                    | Electrical <sup>*1</sup>           | ī   | ≥ 100,000 operations (3A 250VAC, 30VDC res                   | sistive load)                                       | 1   |  |
| Environ-                      | Ambient ter                        | mperature   | -40 to 70°C  |   | 1   |  |
| ment                          | Ambient hu                         | umidity   | 5 to 85%RH   |   | 1   |  |
| Weight                        | /eight                             |   | Approx. 3g   |   | 1   |  |
|                               | reight                             |   |  |   | _   |  |

X1: 50,000 operations-5A 250VAC, 5A 30VDC resistive load (per 20 operations/min)

Environment resistance is rated at no freezing or condensation.

#### Dimensions





**Autonics** 

# MATSUSHITA (Panasonic) Power Relay 1 POLE-5A PQ1a-24V

#### Features

- Slim type
- Excellent durability resistance against vibration and shock

### Coil Specifications

| Harris Constant | 2 C | i. |
|-----------------|-----|----|
| 111             |     | T  |

|   | Model  | Rated voltage | Must operate voltage   | Must release voltage  | Rated current | Coil<br>resistance | Power consumption |
|---|--|---------------|------------------------|-----------------------|---------------|--------------------|-------------------|
|   | PQ1a-24V   | 24VDC==       | ≥ 75% of rated voltage | ≤ 5% of rated voltage | 8.3mA         | 2,880Ω             | 200mW             |
| > | $\times$ All values in the table are measured at 20 °C with a tolerance of ±10%. |               |                        |                       |               |                    |                   |

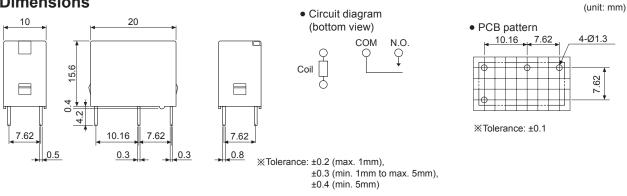
#### Contact Specifications

|                               | <u>r opco</u>                             | incations                             |   |  |  |  |
|-------------------------------|---|---------------------------------------|---|--|--|--|
| Manufacture                   |   | · · · · · · · · · · · · · · · · · · · | MATSUSHITA (Panasonic)  |  |  |  |
| Model                         |   |                                       | PQ1a-24V  |  |  |  |
|                               | Arrangeme                                 | ent                                   | 1 Form A (SPST-1a)  |  |  |  |
| Contact                       | Material                                  |                                       | Au-clad AgNi type   |  |  |  |
|                               | Resistance                                | e (initial)                           | 50mΩ (6VDC 1A)  |  |  |  |
|                               | Rated load                                | I (resistive load)                    | 5A 250VAC~  | 5A 30VDC                                       |  |  |
| Rating                        | Max. switc<br>(resistive lo               | hing power<br>bad)                    | 1,250VA   | 150W   |  |  |
|                               | Max. switc                                | hing voltage                          | 250VAC~   | 110VDC   |  |  |
|                               | Max. switc                                | hing current                          | 5A  |  |  |  |
|                               | Insulation resistance<br>(initial)        |                                       | ≥ 1,000MΩ (at 500VDC megger)                                    |  |  |  |
| s                             | Dielectric<br>strength                    | Between<br>contact-coil               | 4,000VAC 50/60Hz for 1 minute                                   |  |  |  |
| Electrical<br>characteristics |   | Between open contacts                 | 1,000VAC 50/60Hz for 1 minute                                   |  |  |  |
| Ele                           | Surge voltage                             |                                       | 8,000V  |  |  |  |
| <u>с</u>                      | Operate time<br>(supplying rated voltage) |                                       | ≤ 20ms  |  |  |  |
|                               | Release tir<br>(supplying                 | ne<br>rated voltage)                  | ≤ 10ms  |  |  |  |
| CS =                          | Vibration                                 | Mechanical                            | 3.5mm amplitude at frequency of 10 to 55Hz (for                 | 1 min) in each X, Y, Z direction for 1 hour    |  |  |
| anica                         | VIDIATION                                 | Malfunction                           | 2.0mm amplitude at frequency of 10 to 55Hz (for                 | 1 min) in each X, Y, Z direction for 10 minute |  |  |
| Mechanical<br>characteristics | Shock                                     | Mechanical                            | 980m/s <sup>2</sup> (approx. 100G) in each X, Y, Z direction    | for 3 times                                    |  |  |
| Chi                           | SHUCK                                     | Malfunction                           | 294m/s <sup>2</sup> (approx. 15G) in each X, Y, Z direction for | or 3 times                                     |  |  |
| Life                          | fe Mechanical                             |                                       | ≥ 20,000,000 operations (at 180 operations/min)                 |  |  |  |
| expectancy                    | Electrical*                               | 1                                     | ≥ 100,000 operations (5A 250VAC, 30VDC resistive load)          |  |  |  |
| Environ-                      | Ambient te                                | mperature                             | -40 to 70°C   |  |  |  |
| ment                          | Ambient hu                                | umidity                               | 5 to 85%RH  |  |  |  |
| Weight                        | Weight                                    |                                       | Approx. 7g  |  |  |  |

%1: 20 operations per 1 minute

Environment resistance is rated at no freezing or condensation.

#### Dimensions



**Autonics** 

# **Power Relay**

I/O Terminal Blocks

AFS(Interface Terminal Block) AFL/AFR(Interface Terminal Block)

ACS(Common Terminal Block)

AFE(Sensor Conne Terminal Block)

ABS(Relay Terminal Block) ABL(Relay Terminal Block

Power Relay

I/O Cables MITSUBISH I SIS Autonics RS Automation YOKOGAWA FUJI KDT

## MATSUSHITA (Panasonic) Power Relay Plug-In Type 1 Form C

#### Features

- Slim type
- High capacity, high reliability

#### Coil Specifications



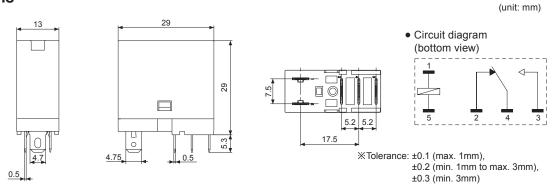
| Model    | Rated voltage                      | Must operate voltage   | Must release voltage          | Rated current |                 | Power consumption |                 |  |
|----------|------------------------------------|------------------------|-------------------------------|---------------|-----------------|-------------------|-----------------|--|
| AHN12024 | 24VDC==                            | ≥ 70% of rated voltage | ≤ 15% of rated voltage        | 22mA          |                 | 22mA 0.53W        |                 |  |
|          |                                    |                        |                               | 50Hz          | 60Hz            | 50Hz              | 60Hz            |  |
| AHN110X0 | 100/110VAC~ ≥ 80% of rated voltage | ≤ 30% of rated voltage | 11/13mA                       | 9/10.6mA      | 1.1 to<br>1.4VA | 0.9 to<br>1.2VA   |                 |  |
|          |                                    |                        |                               | 50Hz          | 60Hz            | 50Hz              | 60Hz            |  |
| AHN110Y0 | 200/220VAC~                        | ≥ 80% of rated voltage | oltage ≤ 30% of rated voltage | 5.5/6.5mA     | 4.5/5.3mA       | 1.1 to<br>1.4VA   | 0.9 to<br>1.2VA |  |

#### Contact Specifications

| Conta                         | ntact Specifications               |                        |  |                                     |                                |   |   |
|-------------------------------|------------------------------------|------------------------|--|-------------------------------------|--------------------------------|---|---|
| Manufactu                     | facture                            |                        | MATSUSHITA (Panasonic)                             |                                     |                                |   |   |
| Model                         |                                    |                        | AHN12024   | AHN110X0                            | AHN110Y0                       |   | TELEMECANIQUE                                   |
|                               | Arrangem                           | ent                    | 1 Form C   |                                     |                                |   | For SERVO                                       |
| Contact                       | Material                           |                        | AgSnO <sub>2</sub> type                            |                                     |                                |   | Open Type Cables                                |
|                               | Resistanc                          | e (initial)            | ≤ 100mΩ (6VDC 1A)                                  |                                     |                                |   | Cable Appearance                                |
|                               | Rated load                         | d (resistive load)     | 10A 250VAC~, 10A 30VDC==                           |                                     |                                | Г |   |
| Rating                        | Max. swite<br>(resistive l         | ching power<br>load)   | 4,000VA, 300W                                      |                                     |                                | F | Remote I/O                                      |
| J                             | Max. swite                         | ching voltage          | 250VAC~, 30VDC==                                   |                                     |                                |   | Standard Terminal Type)                         |
|                               | Max. swite                         | ching current          | 16A (AC load), 10A (DC load)                       |                                     |                                |   | ARD(DeviceNet Digital<br>Sensor Connector Type) |
|                               | Insulation                         | resistance (initial)   | ≥ 1,000MΩ (at 500VDC megger                        | )                                   |                                |   | ARD(DeviceNet Analog<br>Standard Terminal Type) |
| cs                            | Between<br>Dielectric contact-coil |                        | 5,000VAC 50/60Hz for 1 minute                      |                                     |                                | _ | ARM(Modbus Digital<br>Sensor Connector Type)    |
| Electrical<br>characteristics | strength                           | Between open contacts  | 1,000VAC 50/60Hz for 1 minute                      |                                     |                                | C | Others  |
| Ele<br>chara                  | Operate ti<br>(supplying           | me<br>( rated voltage) | ≤ 15ms   |                                     |                                |   | Sensor Connectors                               |
|                               | Release ti<br>(supplying           | me<br>( rated voltage) | ≤ 5ms  |                                     |                                |   | Sensor Distribution<br>Boxes                    |
| ics al                        | ) (ile and in a                    | Mechanical             | 1.5mm amplitude at frequency of                    | of 10 to 55Hz (for 1 min) in each X | , Y, Z direction for 1 hour    |   | Valve Plugs                                     |
| Mechanical<br>characteristics | Vibration                          | Malfunction            | 1.5mm amplitude at frequency of                    | of 10 to 55Hz (for 1 min) in each X | , Y, Z direction for 10 minute |   | Thumbwheel<br>Switches                          |
| ech                           | Chaoli                             | Mechanical             | 1,000m/s <sup>2</sup> (approx. 100G) in eac        | ch X, Y, Z direction for 3 times    |                                |   |   |
| ⊂ La                          | Shock                              | Malfunction            | 100m/s <sup>2</sup> (approx. 10G) in each 2        | X, Y, Z direction for 3 times       |                                |   |   |
| Life                          | Mechanical<br>Electrical           |                        | ≥ 20,000,000 operations<br>(at 300 operations/min) | ≥ 10,000,000 operations (at 300     | operations/min)                |   |   |
| expectancy                    |                                    |                        | ≥ 100,000 operations (at 20 ope                    | rations/min)                        |                                |   |   |
| Environ-                      | Ambient to                         | emperature             | -40 to 70°C  |                                     |                                |   |   |
| ment                          | Ambient h                          | umidity                | 5 to 85%RH   |                                     |                                |   |   |
| Weight                        |                                    |                        | Approx. 19g  |                                     |                                |   |   |
|                               |                                    |                        |  |                                     |                                |   |   |

%Environment resistance is rated at no freezing or condensation.

#### Dimensions



### **OMRON Power Relay 1 Form C**

#### Features

- Slim type
- High capacity, high reliability

#### Coil Specifications



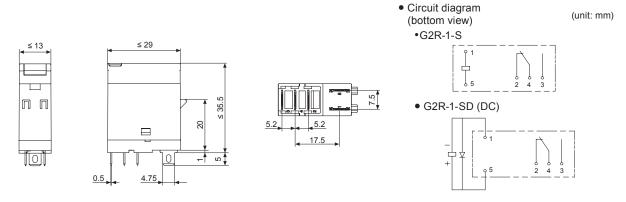
| Model                | Rated<br>voltage                       | Must operate voltage   | Must release voltage   | Rated current |           | Rated current Power cons |  | Power consumption |
|----------------------|--|------------------------|------------------------|---------------|-----------|--------------------------|--|-------------------|
| G2R-1-S24VDC         | 24VDC==                                | ≥ 70% of rated voltage | ≤ 15% of rated voltage | 21.8mA        |           | 0.53W                    |  |                   |
| G2R-1-S100/ (110)VAC | 00/ (110)VAC 100/110VAC~               | ≥ 80% of rated voltage | ≤ 30% of rated voltage | 50Hz          | 60Hz      | 60Hz                     |  |                   |
| G2R-1-3100/ (110)VAC | 100/110VAC~                            | 2 60% of fated voltage | ≤ 50% of faled voltage | 11mA          | 9/10.6mA  | 0.9VA                    |  |                   |
| G2R-1-S200/ (220)VAC | G2R-1-S200/ (220)VAC 200/220VAC~ ≥ 80% |                        | ≤ 30% of rated voltage | 50Hz          | 60Hz      | 60Hz                     |  |                   |
| G2R-1-3200/ (220)VAC | 200/220VAC~                            | ≥ 80% of rated voltage |                        | 5.5/4mA       | 4.5/5.3mA | 0.9VA                    |  |                   |

#### Contact Specifications

|                               |   | omoution              |  |                                     |                           |  |  |  |
|-------------------------------|---|-----------------------|--|-------------------------------------|---------------------------|--|--|--|
| Manufact                      | ure                                       |                       | OMRON  |                                     |                           |  |  |  |
| Model                         |   |                       | G2R-1-S24VDC   | G2R-1-S100/ (110)VAC                | G2R-1-S100/ (110)VAC      |  |  |  |
|                               | Arrangeme                                 | ent                   | 1 Form C   |                                     |                           |  |  |  |
| Contact                       | Material                                  |                       | AgSnO <sub>2</sub> type                                |                                     |                           |  |  |  |
|                               | Resistance                                | e (initial)           | ≤ 100mΩ  |                                     |                           |  |  |  |
|                               | Rated load                                | (resistive load)      | 10A 250VAC~, 10A 30VDC==                               |                                     |                           |  |  |  |
| Rating                        | Max. switcl<br>(resistive I               |                       | 2,500VA, 300W  | 2,500VA, 300W                       |                           |  |  |  |
| l .                           | Max. switcl                               | hing voltage          | 380VAC~, 125VDC==                                      |                                     |                           |  |  |  |
|                               | Max. switcl                               | hing current          | 16A (AC load), 10A (DC load)                           |                                     |                           |  |  |  |
|                               | Insulation re                             | esistance (initial)   | ≥ 1,000MΩ (at 500VDC megger)                           |                                     |                           |  |  |  |
| S                             | Dielectric strength                       | Between contact-coil  | 5,000VAC 50/60Hz for 1 minute                          |                                     |                           |  |  |  |
| Electrical<br>characteristics |   | Between open contacts | 1,000VAC 50/60Hz for 1 minute                          |                                     |                           |  |  |  |
| Ele                           | Operate time<br>(supplying rated voltage) |                       | ≤ 15ms   |                                     |                           |  |  |  |
|                               | Release time<br>(supplying rated voltage) |                       | ≤ 5ms  | ≤ 10ms                              |                           |  |  |  |
| ics al                        | Vibration                                 | Mechanical            | 1.5mm amplitude at frequency of                        | 10 to 55Hz (for 1 min) in each X, Y | Z direction for 1 hour    |  |  |  |
| Mechanical<br>characteristics | Vibration                                 | Malfunction           | 1.5mm amplitude at frequency of                        | 10 to 55Hz (for 1 min) in each X, Y | Z direction for 10 minute |  |  |  |
| echa                          | Shock                                     | Mechanical            | 1,000m/s <sup>2</sup> (approx. 100G) in each           | X, Y, Z direction for 3 times       |                           |  |  |  |
| ⊇ cho                         | SHOCK                                     | Malfunction           | 100m/s <sup>2</sup> (approx. 10G) in each X,           | Y, Z direction for 3 times          |                           |  |  |  |
| Life                          | Mechanica                                 | I                     | ≥ 20,000,000 operations<br>(at 18,000 operations/hour) | ≥ 10,000,000 operations (at 18,0    | 000 operations/hour)      |  |  |  |
| expectancy                    | Electrical                                |                       | ≥ 100,000 operations (at 1,800 op                      | perations/hour)                     |                           |  |  |  |
| Environ-                      | Ambient te                                | mperature             | -40 to 70°C  |                                     |                           |  |  |  |
| ment                          | Ambient hu                                | umidity               | 5 to 85%RH   |                                     |                           |  |  |  |
| Weight                        |   |                       | Approx. 20g  |                                     |                           |  |  |  |
|                               |   |                       |  |                                     |                           |  |  |  |

\*Environment resistance is rated at no freezing or condensation.

### Dimensions



# I/O Cables

I/O Terminal Blocks

AFS(Interface Terminal Block) AFL/AFR(Interface Terminal Block)

ACS(Common Terminal Block)

AFE(Sensor Conne Terminal Block)

ABS(Relay Terminal Block) ABL(Relay Terminal Block)

Power Relay

#### MITSUBISHI LSIS Autonics RS Automation YOKOGAWA FUJI KDT OMRON

### TELEMECANIQUE

or SERVO pen Type Cables

Cable Appearance

### emote I/O

| RD(DeviceNet Digital<br>standard Terminal Type) |
|---|
| RD(DeviceNet Digital<br>iensor Connector Type)  |
| RD(DeviceNet Analog<br>standard Terminal Type)  |
| RM(Modbus Digital<br>iensor Connector Type)     |
|   |
| hers  |

# Sensor Connectors

Sensor Distribution

Valve Plugs

Thumbwheel Switches

# OMRON Power Relay 1 Form A

#### Features

- Slim type
- High capacity, high reliability

### Coil Specifications

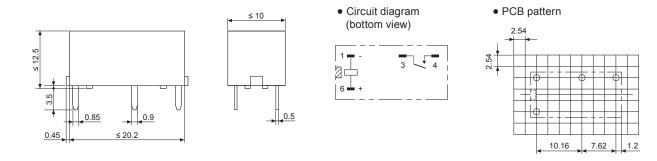
| Model           | Rated voltage | Must operate voltage   | Must release voltage   | Rated current | Coil resistance | Power<br>consumption | 1/0 |
|-----------------|---------------|------------------------|------------------------|---------------|-----------------|----------------------|-----|
| G6B-1174P-FD-US | 24VDC==       | ≥ 70% of rated voltage | ≤ 10% of rated voltage | 8.3mA         | 2,880Ω          | 200mW                | 1   |

### Contact Specifications

| Manufactu                     | ro  |                         | OMRON   |   | Autor                                |  |
|-------------------------------|---|-------------------------|---|---|--------------------------------------|--|
|                               |   |                         |   |   |                                      |  |
| Model                         |   |                         | G6B-1174P-FD-US   |   |                                      |  |
| Arrangement                   |   | ent                     | 1 Form A (SPST-1a)  |   |                                      |  |
| _                             | Material                                  |                         | AgCdO type  |   |                                      |  |
|                               | Resistance (initial)                      |                         | 30mΩ (5VDC 1A)  |   | OMRO                                 |  |
| Rating                        | Rated load (resistive load)               |                         | 5A 250VAC~  | 5V 30VDC==  | TELE                                 |  |
|                               | Max. switching power                      |                         | 1,250VA   | 150W  | For SE                               |  |
|                               | Max. switching voltage                    |                         | 380VAC~   | 125VDC  |                                      |  |
|                               | Max. switching current                    |                         | 5A  |   | Open <sup>-</sup>                    |  |
| Electrical<br>characteristics | Insulation resistance<br>(initial)        |                         | ≥ 1,000MΩ (at 500VDC megger)                                    |   | Cable                                |  |
|                               | Dielectric<br>strength                    | Between<br>contact-coil | 3,000VAC 50/60Hz for 1 minute                                   |   | ARD(De<br>Standar                    |  |
|                               |   | Between open contacts   | 1,000VAC 50/60Hz for 1 minute                                   |   | ARD(De<br>Sensor (<br>ARD(De         |  |
|                               | Surge voltage                             |                         | 6,000V  |   | Standar<br>ARM(Mo                    |  |
|                               | Operate time<br>(supplying rated voltage) |                         | ≤ 20ms  |   | Sensor                               |  |
|                               | Release time<br>(supplying rated voltage) |                         | ≤ 5ms   |   | Senso                                |  |
| Mechanical<br>characteristics |   | Mechanical              | 1.5mm amplitude at frequency of 10 to 5                         | 5Hz (for 1 min) in each X, Y, Z direction for 1 hour    | Socket<br>Sensor<br>Boxes<br>Valve F |  |
|                               | Vibration                                 | Malfunction             | 1.5mm amplitude at frequency of 10 to 5                         | 5Hz (for 1 min) in each X, Y, Z direction for 10 minute |                                      |  |
|                               | Shock                                     | Mechanical              | 1,000m/s <sup>2</sup> (approx. 100G) in each X, Y,              | Z direction for 3 times                                 |                                      |  |
|                               |   | Malfunction             | 100m/s <sup>2</sup> (approx. 10G) in each X, Y, Z d             | rection for 3 times                                     | Thum<br>Switch                       |  |
| Life<br>expectancy            | Mechanical                                |                         | ≥ 50,000,000 operations (at 300 operations/min)                 |   |                                      |  |
|                               | Electrical                                |                         | ≥ 100,000 operations (5A, 250VAC, 30VDC) (at 30 operations/min) |   |                                      |  |
| Environ-<br>ment              | Ambient temperature                       |                         | -25 to 70°C   |   |                                      |  |
|                               | Ambient humidity                          |                         | 5 to 85%RH  |   |                                      |  |
| Weight                        |   | -                       | Approx. 5g  |   |                                      |  |
|                               |   |                         |   |   |                                      |  |

%Environment resistance is rated at no freezing or condensation.

### Dimensions



(unit: mm)



**Power Relay**