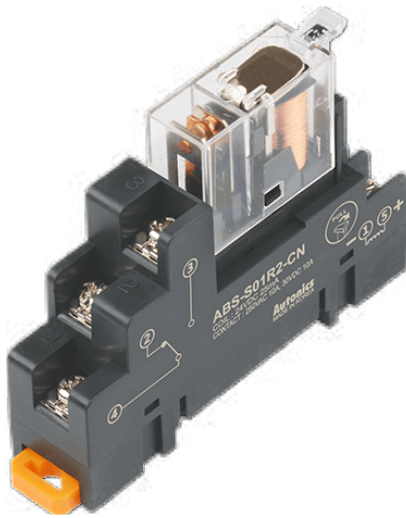


Relay Terminal Block (1-point)



ABS Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Suitable for operating various loads using output signal of PLC
- Easily check of operation status with high luminance LED which turns on with input signals
- Available to select from various kinds of relay according to the voltage and current of each load
- Easy replacement of realy with the relay releasing lever
- DIN rail mount and screw mount methods
- Tight installation and free expansion possible with interlocking design

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

ABS - S 01 ① ② - C N

① Relay type

PA: MATSUSHITA(Panasonic) PA
 TN: TAKAMISAWA(Fujitsu) NYP
 PQ: MATSUSHITA(Panasonic) PQ
 R6: OMRON G6B
 PH: MATSUSHITA(Panasonic) AHN
 R2: OMRON G2R

② Voltage specification of relay coil

No mark: 24 VDC≐
 5: 200/220VAC~ or 220VAC~
 6: 100/110VAC~

Product Components

- Product × 10 (PA, TN: × 14)
- Instruction manual × 10 (PA, TN: × 14)

Specifications

| Model | 3 A model | 5 A model | 10 A model | | |
|--|--|--|---|---|---|
| | ABS-S01□-CN | ABS-S01□-CN | ABS-S01□-CN | ABS-S01□-CN | ABS-S01□-CN |
| Applied relay ⁰¹ | PA: APAN3124 [MATSUSHITA (Panasonic)] TN: NYF24W-K [TAKAMISAWA (Fujitsu)] | PQ: PQ1a-24V [MATSUSHITA (Panasonic)] R6: G6B-1174P-FD-US [OMRON] | PH: AHN12024 [MATSUSHITA (Panasonic)] R2: G2R-1-S24VDC [OMRON] | PH6: AHN110X0 [MATSUSHITA (Panasonic)] R26: G2R-1-S100/ (110)VAC [OMRON] | PH5: AHN110Y2 [MATSUSHITA (Panasonic)] R25: G2R-1-S200/ (220)VAC [OMRON] |
| Output method | 1a | 1a | 1c | 1c | 1c |
| Power supply | ≤ 24 VDC≐ ± 10% | ≤ 24 VDC≐ ± 10% | ≤ 24 VDC≐ ± 10% | 100/110 VAC~ | PH5: 220 VAC~ R25: 200/220 VAC~ |
| Current consumption | PA: ≤ 8 mA TN: ≤ 8.5 mA | ≤ 20 mA | ≤ 25 mA | ≤ 15 mA | PH5: ≤ 9 mA R25: ≤ 10 mA |
| Rated load voltage & current ^{02, 03} | 250 VAC~ 3A, 30 VDC≐ 3A | 250 VAC~ 5A, 30 VDC≐ 5A | 250 VAC~ 5A, 30 VDC≐ 5A | 250 VAC~ 5A, 30 VDC≐ 5A | 250 VAC~ 5A, 30 VDC≐ 5A |
| Terminal type | Screw | Screw | Screw | Screw | Screw |
| Indicator | Operation indicator: blue | Operation indicator: blue | Operation indicator: blue | Operation indicator: blue | Operation indicator: blue |
| Varistor | None | None | None | None | None |
| Material | CASE, BASE: PA6, terminal pin: brass | CASE, BASE: PA6, terminal pin: brass | CASE, BASE: PBT, terminal pin: brass, phosphor bronze | CASE, BASE: PBT, terminal pin: brass, phosphor bronze | CASE, BASE: PBT, terminal pin: brass, phosphor bronze |
| Approval | CE, ENEC, ENEC ⁰⁴ | CE, ENEC, ENEC ⁰⁴ | CE, ENEC, ENEC ⁰⁴ | CE, ENEC, ENEC ⁰⁴ | CE, ENEC, ENEC ⁰⁴ |
| Unit weight (packaged) ⁰⁵ | PA: ≈ 21.5 g (≈ 314.5 g) TN: ≈ 22.2 g (≈ 324.5 g) | PQ: ≈ 31 g (≈ 430 g) R6: ≈ 30 g (≈ 416 g) | PH: ≈ 53 g (≈ 720 g) R2: ≈ 53 g (≈ 719 g) | ≈ 52 g (≈ 711 g) | PH5: ≈ 52 g (≈ 715 g) R25: ≈ 52 g (≈ 712 g) |

01) For the detailed information about each relay, please refer to 'Power Relay' or data sheet from the manufacturer.

02) This value is rated with resistive load.

03) When connecting loads to output part, please connect loads of same power type. Connecting loads of different power type may cause safety issues.

04) 30 VDC≐ of rated load voltage is not subjected to UL Listed.

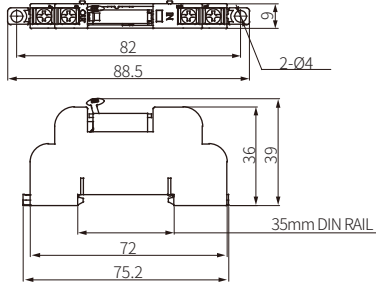
05) It is weight per product. The weight in parentheses is for 10 packing units (PA, TN: 14) including packing materials.

| | |
|---|--|
| Insulation resistance | ≥ 1,000 MΩ (500 VDC≐ megger) |
| Dielectric strength (coil-contact) | PA, TN: 3,000 VAC~ 50/60 Hz for 1 minute PQ, R6: 4,000 VAC~ 50/60 Hz for 1 minute PH (5, 6), R2 (5, 6): 5,000 VAC~ 50/60 Hz for 1 minute |
| Dielectric strength (same polarity contact) | PA: 1,000 VAC~ 50/60 Hz for 1 minute, TN: 750 VAC~ 50/60 Hz for 1 minute PQ: 1,000 VAC~ 50/60 Hz for 1 minute, R6: 3,000 VAC~ 50/60 Hz for 1 minute PH (5, 6), R2 (5, 6): 1,000 VAC~ 50/60 Hz for 1 minute |
| Vibration | 0.75 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 2 hours |
| Vibration (malfunction) | 0.75 mm amplitude at frequency of 10 to 55 Hz (for 1 min) in each X, Y, Z direction for 10 min |
| Shock | PA, TN: 500 m/s ² (≈ 50 G) in each X, Y, Z direction for 3 times PQ, R6, PH (5, 6), R2 (5, 6): 1,000 m/s ² (≈ 100 G) in each X, Y, Z direction for 3 times |
| Shock (malfunction) | PA, TN: 147 m/s ² (≈ 15 G) in each X, Y, Z direction for 3 times PQ, R6, PH (5, 6), R2 (5, 6): 100 m/s ² (≈ 10 G) in each X, Y, Z direction for 3 times |
| Ambient temperature | -15 to 55 °C, storage: -25 to 65 °C (no freezing or condensation) |
| Ambient humidity | 35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation) |
| Applicable wire -stranded | PA, TN: AWG 22-16 (0.30 to 1.25 mm ²) PQ, R6: AWG 19-14 (0.65 to 2.0 mm ²) PH (5, 6), R2 (5, 6): AWG 17-14 (1.0 to 2.0 mm ²) |
| Tightening torque | PA, TN: 0.5 to 0.6 N·m PQ, R6: 0.7 to 0.8 N·m PH (5, 6), R2 (5, 6): 0.7 to 0.8 N·m |

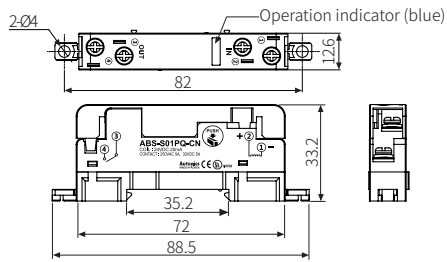
Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.

■ PA, TN



■ PQ, R6



■ PH, R2

