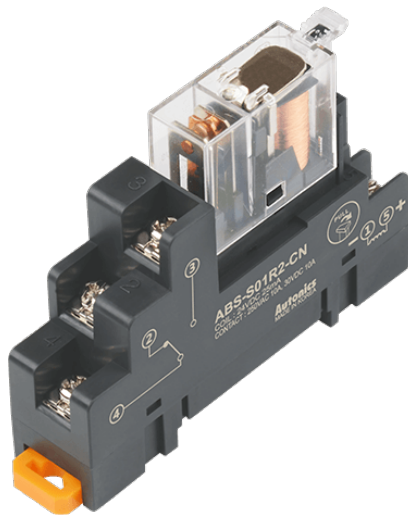


Relay Terminal Block (1-point)



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⁾	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 ⁰³⁾	CE, ENEC, ENEC ⁰⁴⁾	CE, ENEC, ENEC ⁰⁵⁾	CE, ENEC, ENEC ⁰⁶⁾	CE, ENEC, ENEC ⁰⁶⁾
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.

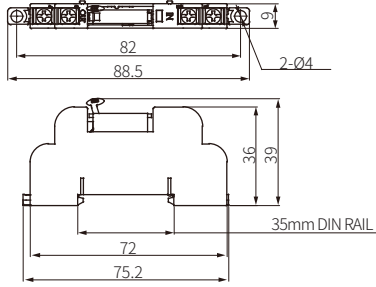
05) It is weight per product. The weight in parentheses is for 10 packing units (PA, TN: 14) including packing materials.

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

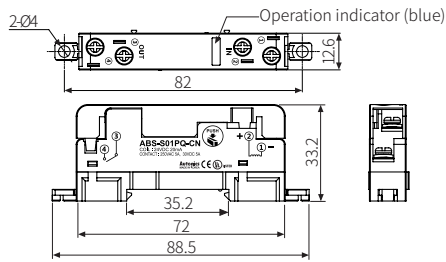
Dimensions

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

■ PA, TN



■ PQ, R6



■ PH, R2

