ASL Series

SSR Terminal Block (screwless type)

▣ Features

[Common Feature]
- Selectable between independent and load common output with jumper bar
- High tensile force and easy wiring with one-touch screwless type crimp terminal
- Convenient operating status check with operation indicator (blue LED)
- SSR: [Fujitsu] SN-24A01C
  [Omron] 3GMC-202P
  [Panasonic] AQG22124, AQG12124, AQZ202D

[1-point]
- Selectable between independent and power ommon input with jumper bar
- DIN Rail mounting

[4-point]
- Selectable between NPN common and PNP common common input with jumper bar insulting location
- SSR protection with the cover
- Easy SSR replacement with SSR ejector (except ASL-L04ST0-☐☐)
- DIN Rail or screw mounting

⚠ **Please read "Safety considerations" in operation manual before using.**

CE   c(UL)US LISTED (except ASL-L1ST0-☐☐, ASL-L4ST0-☐☐series)

▣ Ordering Information

| AS | L | – | L | 04 | SP0 | – | U | N |

Varistor installation	N	Not installed
	Y	Installed

Input logic	4-point	U	Universal
	1-point	N	NPN
		P	PNP

SSR type	MP0	AQZ202D (panasonic)
	SP0	AQG12124 (panasonic)
	SP1	AQG22124 (panasonic)
	SR0	G3MC-202P (omron)
	ST0	SN-24A01C (fujitsu)

No. of SSR points	01	1-point
	04	4-point

Connector type	L	Screwless

Terminal type	L	Screwless

Model	AS	SSR Terminal Block

▣ Crimp Terminal Specification
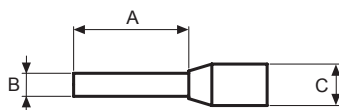
(unit: mm)

	A	B	C	Applicable wire
End Sleeve (ferrule terminal) crimp terminal	10 to 12.0	≤ 2.0	≤ 4.1	AWG22-16 (0.30 to 1.25mm^2) (60℃ only)

Autonics

SSR Terminal Block

�«▣» **Specifications**

Model		ASL-L01MP0-☐N	ASL-L01SP0-☐N	ASL-L01SP1-☐N	ASL-L01SR0-☐N	ASL-L01ST0-☐N
	1-point	ASL-L01MP0-☐Y	ASL-L01SP0-☐Y	ASL-L01SP1-☐Y	ASL-L01SR0-☐Y	ASL-L01ST0-☐Y
	4-point	ASL-L04MP0-UN	ASL-L04SP0-UN	—	—	ASL-L04ST0-UN
		ASL-L04MP0-UY[※1]	ASL-L04SP0-UY[※1]	—	—	ASL-L04ST0-UY[※1]
Power supply		24VDC══±10%				
Rated load voltage & current[※2]		60VAC∼/DC══ 50/60Hz 2.7A	75-240VAC∼ 50/60Hz 1A	75-240VAC∼ 50/60Hz 2A	24-240VAC∼ 50/60Hz 2A	24-240VAC∼ 50/60Hz 1A
Current consumption[※3]		≤ 3mA	≤ 18mA			≤ 10mA
Output type		1a contact relay output				
Applied SSR		AQZ202D [Panasonic]	AQG12124 [Panasonic]	AQG22124 [Panasonic]	G3MC-202P [Omron]	SN-24A01C [Fujitsu]
Terminal type		Screwless				
Terminal pitch		1-point: 9.0mm (arranging over 2 units)/4-point: 5.0mm				
Operation Indicator		Blue LED				
Applied cable	Solid wire	Ø0.6 to Ø1.25mm (60℃ only)				
	Stranded wire[※4]	AWG22-16 (0.30 to 1.25mm^2) (60℃ only)				
Stripped wire length		8 to 10mm				
Insulation resistance		1-point: ≥ 1,000MΩ (at 500VDC megger)/4-point: ≥ 1,000MΩ (at 500VDC megger)				
Insulation resistance	Between coil-contact	2,500VAC 50/60Hz for 1 minute				
	Between same contacts[※5]	1,000VAC 50/60Hz for 1 minute				
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours				
	Malfunction	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 minutes				
Shock	Mechanical	1,000m/s^2 (approx. 100G) in each X, Y, Z direction for 3 times				
	Malfunction	100m/s^2 (approx. 10G) in each X, Y, Z direction for 3 times				
Environment	Ambient temp.	-15 to 55℃, storage: -25 to 65℃				
	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH				
Material		Terminal block: polyamide 66, conducting plate: brass, case&base: poly phenylene sulfide				
Accessory		Jumper bar: 1, Ejector: 1[※6]				Jumper bar: 1
Protection structure		IP20 (IEC standard)				
Approval		CE c(UL)us LISTED				CE
Weight[※7]	1-point[※8]	Approx. 130g (approx. 19g)	Approx. 134g (approx. 20g)	Approx. 140g (approx. 22g)	Approx. 148g (approx. 24g)	Approx. 136g (approx. 21g)
	4-point	Approx. 118g (approx. 65g)	Approx. 122g (approx. 69g)	Approx. 128g (approx. 75g)	Approx. 128g (approx. 75g)	Approx. 126g (approx. 72g)

※1: This is for load protection and it is recommend to use at the inductive load.
※2: This is relay load capacity when it is resistive load and temperature characteristic curve is satisfied.
※3: The current consumption including LED current by one relay.
※4: When using stranded wire, use End Sleeve (ferrule terminal) crimp terminals.
※5: ASL-L01☐-☐Y/ASL-L04☐-☐Y (varistor installed type), this is 300VAC.
※6: Ejector is supplied only for ASL-L04☐-☐☐ (4-point).
※7: The weight includes packaging. The weight in parenthesis is for unit only.
※8: The weight of 1-point unit is per 4 units with packaging and the weight of parenthesis is per 1.
※Environment resistance is rated at no freezing or condensation.

ASL Series

▣ Dimensions

(unit: mm)

◎ **ASL-L01□-□□**

ASL-L01MP0-NN
Class 2
INPUT: 24VDC⎓3mA
OUTPUT: 60VAC∼2.7A
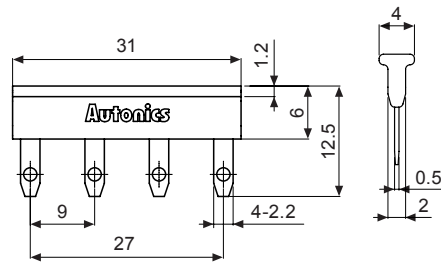60VDC⎓2.7A
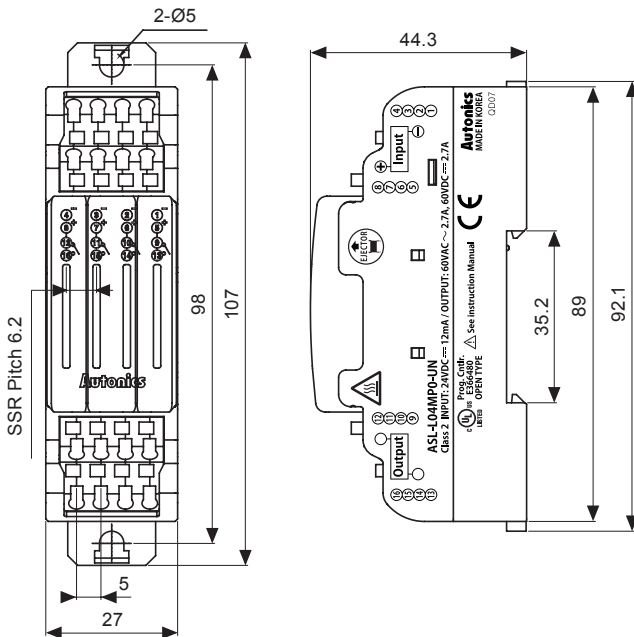Prog. Cntlr.
E366480
OPEN TYPE
See Instruction Manual
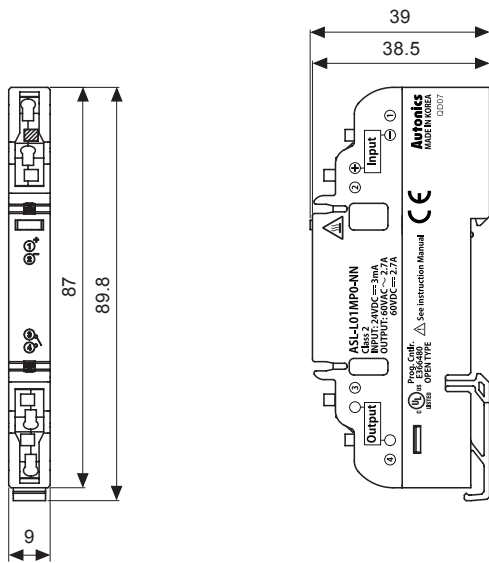
● **Jumper bar (model: JB-9.0-04L)**
  ※For the desired application (Power/Load common),
  the jumper bar is sold separately.

◎ **ASL-L04□-□□**

ASL-L04MP0-UN
Class 2. INPUT: 24VDC⎓12mA / OUTPUT: 60VAC∼2.7A, 60VDC⎓2.7A
Prog. Cntlr.
E366480
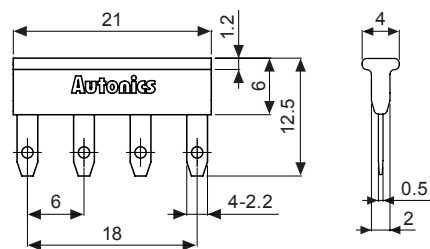OPEN TYPE
See Instruction Manual

SSR Pitch 6.2

● **Jumper bar (model: JB-6.0-04L)**
  ※For the desired application (NPN/PNP/Load common),
 the jumper bar is sold separately.

⚠ **High Temperature Caution**

Make sure do not touch the heat sink or
the unit body while power is supplied or
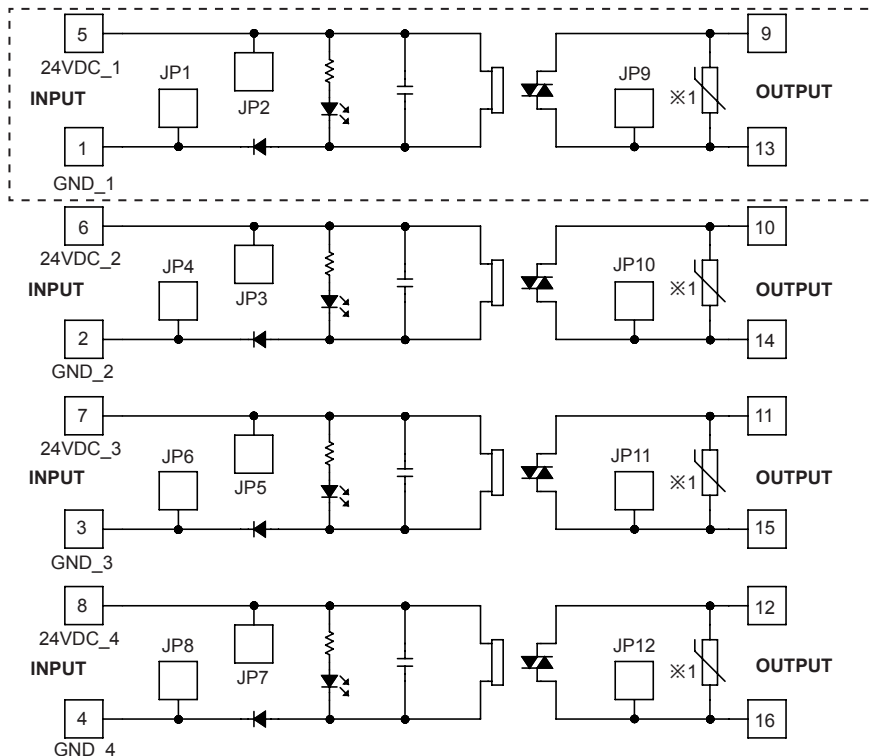right after load power is turned off. If not,
it may cause a burn.

Autonics

SSR Terminal Block

I/O Terminal Blocks

Interface
Terminal Block

AFS
(screw)

AFL
(screwless)

AFR
(rising clamp)

Common
Terminal Block

ACS
(screw)

Sensor Connector
Terminal Block

AFE
(sensor Connector)

Relay
Terminal Block

ABS
(screw)

ABL
(screwless)

ASL
(screwless)

Power Relay
(relay terminal
block)

SSR
(relay terminal
block)

I/O Cables

MITSUBISHI

LSIS

Autonics

RS Automation

YOKOGAWA

FUJI

KDT

OMRON

TELEMECANIQUE

For SERVO

Open Type Cables

Cable Appearance

Remote I/O

ARD
(DeviceNet Digital
Standard Terminal Type)

ARD
(DeviceNet Digital
Sensor Connector Type)

ARR
(DeviceNet Analog
Standard Terminal Type)

ARM
(Modbus Digital
Sensor Connector Type)

Others

Sensor Connectors

Sockets

Sensor Distribution
Boxes

Valve Plugs

Thumbwheel
Switches

� Wire Connections

※ NPN, PNP, LOAD common are operated by the inserting position of the Jumper bar.
Please refer to '● Using jumper bars' of '� Replacing SSR and Using Jumper Bar'.

◎ ASL-L01MP0-□□/ASL-L04MP0-□□
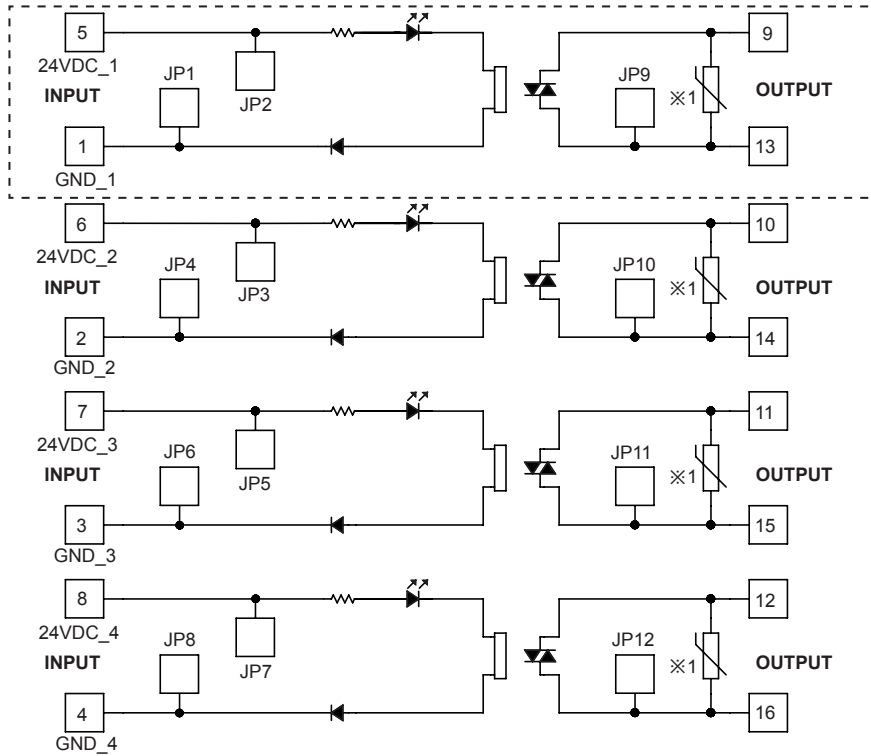
※▭ parts are only for 1-point model.
※1: Only for ASL-L01(04)□-UY(varistor installed type).

◎ ASL-L01SP0(SP1/SR0/ST0)-□□/ASL-L04SP0(SP1/SR0/ST0)-□□

※▭ parts are only for 1-point model.
※There is no condenser for ASL-L□SR0-□□ model.
※1: Only for ASL-L01(04)□-UY (varistor installed type).

ASL Series

�é Connecting Crimp Terminals

◎ Connecting and removing end sleeve (ferrule terminal) crimp terminal at screwless type terminal block
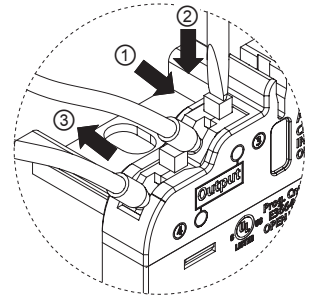
● Connecting

1) Push the end sleeve (ferrule terminal) crimp terminal towards direction ① to complete the connection.

● Removing

1) Press and hold the catch above the terminal in direction ② with a flathead screwdriver.
2) Pull and remove the end sleeve (ferrule terminal) crimp terminal towards direction ③.

�é Replacing SSR and Using Jumper Bar

◎ ASL-L01□-□□

※ASL-L01□-□□ model is integrated SSR type. The unit cannot replace only SSR.

● Using jumper bar

The right figure example is for 4 ASL-L01□-□□ units with jumper bar.
For power common, insert a jumper bar to top (belows 1, 2 terminals).
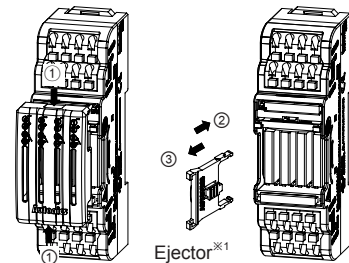For load common, insert a jumper bar to bottom (above 3, 4 terminals).

POWER COMMON

LOAD COMMON
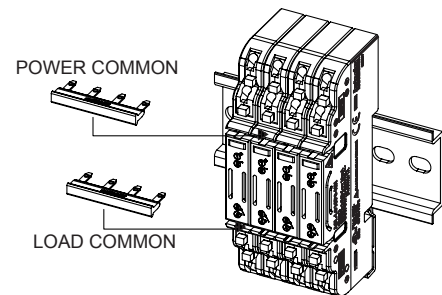
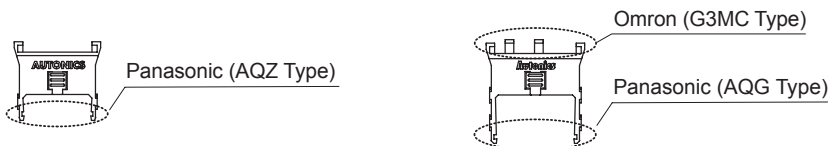### ◎ ASL-L04□-□□

● Replacing SSR

1) Pull the protection cover towards direction ①.
2) Insert the ejector as proper side to ② direction and pull it to ③ direction to remove.
3) Insert a new SSR to the case.

Ejector※1

※1: Two way ejector position for SSR replacement
(there is no ejector for SSR SN-24A01C model)

Panasonic (AQZ Type)

Omron (G3MC Type)

Panasonic (AQG Type)

● Using jumper bars

Remove the protection cover and use the jumper bars accordingly.

| NPN COMMON	PNP COMMON	LOAD COMMON
Insert the jumper bar to the far left towards terminals 4 and 8.	Insert the jumper bar to the far right towards terminals 1 and 5.	Insert the jumper bar above terminals 12, 11, 10, 9.

Autonics

SSR Terminal Block

▣ Installation

※When installing the unit, keep the interval between the units.
(refer to the '▣ Example Of Installation'.)

1. Mounting and removal at DIN rail
● **Mounting**
1) Pull the rail lock towards direction ①.
2) Attach the DIN rail connection part onto the DIN rail.
3) Push the unit towards direction ②, then push the rail lock in to lock toward the unit.
※In case of ASL-L01□-□□, hook the DIN rail connection part to DIN rail and push the unit towards direction ②.
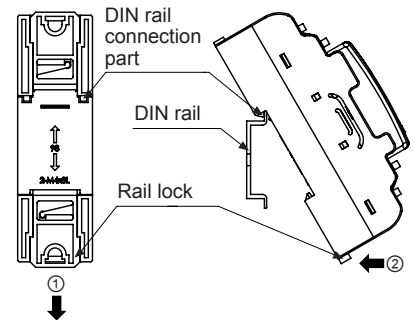
● **Removal (ASL-L01□-□□)**
1) Pull-up the bottom edge of the unit on rail lock to ① direction like a lever.
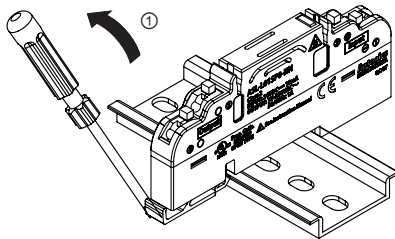
● **Removal (ASL-L04□-□□)**
1) Insert a screwdriver into the rail lock hole and push it towards direction ①.
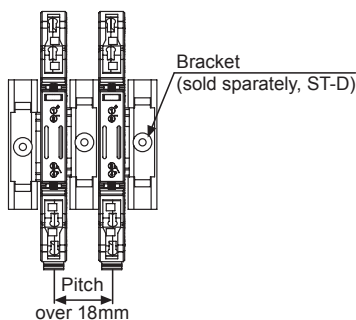2) Remove the unit by pulling the unit towards direction ②.
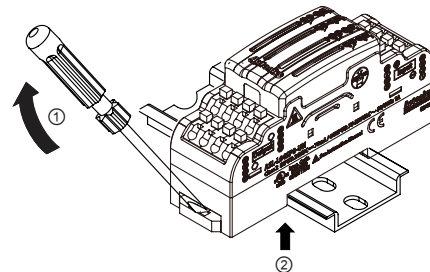
2. Mounting with screws (only for ASL-L04□-□□)
1) The unit can be mounted on panels using the rear rail locks.
2) Pull the rail locks towards up/down directions.
3) M4×10mm spring washer screws are rescommended for installation.
When using flat washers, use Ø9mm diameter washers. The tightening torque should be between 1.0 to 1.5N·m.
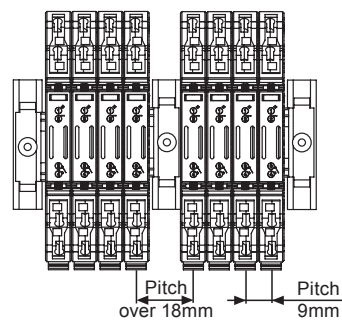
▣ Example of Installation

● **ASL-L01□-□□**
1 unit individual installation
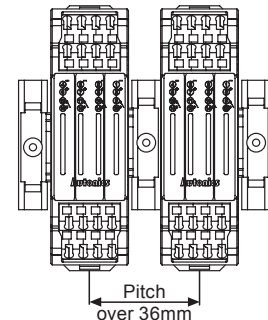(pitch between each SSR: over 18mm)

● **ASL-L01□-□□**
4 units arranging installation
(pitch between each SSR: 9mm)

● **ASL-L04□-□□**
individual installation
(pitch between each SSR: 6.2mm)

Pitch over 18mm — Bracket (sold sparately, ST-D)

Pitch over 18mm / Pitch 9mm

Pitch over 36mm

※Pitch is interval between SSRs.

ASL Series

▣ Temperature Derating Curve

● Load current by ambient temperature for each rated current


```
Load current [A] vs Ambient temperature (℃)
─────: 2.7A
- - -: 2A
— —: 1A
```

● When installing ASL-L04□-□□ individually, load current by ambient temperature for SSRs interval


```
Load current [A] vs Ambient temperature (℃)
─────: 2.7A
— —: 1A
```

● When installing ASL-L01□-□□, load current by ambient temperature for SSRs interval


```
Load current [A] vs Ambient temperature (℃)
─────: 4 units arranging installation (pitch between each SSR: 9mm)
- - -: 1 unit individual installation, 2.7A (pitch between each SSR: over 18mm)
— —: 1 unit individual installation, 2A (pitch between each SSR: over 18mm)
·—··—·: 1 unit individual installation, 1A (pitch between each SSR: over 18mm)
```

Autonics

SSR Terminal Block

◉ Cautions during Use

1. Use the unit within the rated environment of specification.
2. Supply power within the rated allowable voltage range.
3. Check the polarity of power or COMMON before connecting PLC or other controllers.
4. When connecting the power input, use AWG22-16 (0.30 to 1.25mm²). For using crimp terminals, refer to '◉ Crimp Terminal Specifications'.
5. Do not connect wire, remove connector, or replace SSR while connected to a power source.
6. Do not touch the unit immediately after the load power is supplied or cut. It may cause burn by high temperature.
7. Power supply should be insulated and limited voltage/current or Class 2 SELV power supply device.
8. Do not use the unit at below places.
   ① Environments with high vibration or shock.
   ② Environments where strong alkali or acids are used.
   ③ Environments with exposure to direct sunlight.
   ④ Near machinery which produce strong magnetic force or electric noise
9. This unit may be used in the following environments.
   ① Indoors
   ② Altitude max. 2,000m
   ③ Pollution degree 2
   ④ Installation category II

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Solid State Relays - Industrial Mount *category:*

Click to view products by Autonics *manufacturer:*

Other Similar products are found below :

6225XXASRS-DC3 D2440-C H10CA4890 D4875C D53TP50DH-10 1395831-1 1616010-6 BR312BY A-1326 AQY210SXE01 AQY221N2SYD01 AQY414SXE01 26532764 H10CA4850 H12CA4890VL RA2410-D06 D1202F D53TP50-10 W230E-1-12 W230T-3-12 W6125ASX-1 W6225DSX-2 W6240DSX-4 W6240DTX-2 1-1617030-3 1-1617033-9 1-1617033-7 MS2-D2420 MS2-D2430 A-1440 4-1617080-0 RJ1P60V50E RN1F48I50 70.362.1028.0 7-1393030-8 Z5.509.0828.0 W230E-2-5 G3RV-SR700-D AC110 G3RV-SR500-AL AC100 G3RV-SR500-D ACDC24 G3RV-SR500-AL ACDC24 G3RV-SR700-D ACDC24 G3RV-SR700-AL ACDC24 G3RV-SR500-D DC12 G3RV-SR700-A ACDC24 G3RV-SR500-A ACDC24 2912138 2912141 SSRDAC10 1613353