## TCD210171AA

## Autonics

Thank you for choosing our Autorics product. Read and understand the instruction using the product.
and follow the below safety considerations before using For your safety, read and follow the considerati
manual, other manuals and Autonics website.
Keep this instruction manual in a place where you can find easily,
The specifications, dimensions, etc. are subject to change with out notice for product mprovement. Some models may be discontinued without notice.

Safety Considerations
Observe all 'Safery Considerations' for safe and proper operation to avoid hazards
 $\triangle$ Warning Failure to follow instructions may result in serious injury or death. 01. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, venicles, railways, aircraft, combusi
apparatus, safety equipment, crime/dis apparatus, saferte equipment, crimedidsaster prevernion devices, etc.)
Failuretofolow this
02. Do 02. Do on ut use the unit it the place where flammablel/explosivi/e/orrossive gas, high humidity, dire
may be present.
Failureto follow this
03. Install on the devicice panel, and groustl in explosion or fire
d ground to the F.G. terminal separately.
04. Do not connect, repair, or inspect the unit while connected to a power

F5. Check to foriow this nstruction may result in fire or electric shock.
05. Check' 'Wiring Diagram' before wiring.

Falitre to toliow this instruction may resut
06. Do int disassemble or modify the unit
Eail
$\triangle$ Caution Failure to follow instructions may resultin iniury or product damage.

1. When connecting the F.G. terminal, use AWG $14\left(2.1 \mathrm{~mm}^{2}\right)$ cable or over and

2. Use the unit within the rated specifications.

Failure to follow this instruction may result in fire, product damage or shortening 03. Use dry cloth to clean the unit, and do not use water or organic solvent. 04. keep the product away from metal chip, dust, and wire esesidue which flow 04. Keep the productawne
into the nuit.
Failure to follow this instruction may result in fire or product damage.
. F5. Do not touch $h$ after stopping.
struction may result in burns.
06. Upon occurrence of an error, disconnect the power source.

## Cautions during Use

Mow instructionsin
accidents.

$$
\begin{array}{lllll}
\text { clow instr } \\
\text { icidens }
\end{array}
$$ o not connect the output voltage neitherin serial nor in parallel.

cince there is no harmonic suppression or power factor correction circuit, instal the since using the condenser input method, power factor is in the range of 0.4 to 0.6 .
When using distribution board ortransformer hect


> Even though noi is filteri is intalled dicinidide the productuct,

metal surface.

- Install the unit the well ventiated dlace.
Do not usenear the equipment which gene
frequency noise.

| Indicator | Outputindicator (green) |
| :---: | :---: |
| Insulation resistar | $\geq 100 \mathrm{M} \Omega(500 \mathrm{~V} \mathrm{C}=$ = megger, between all inputs and ou |
| Dielectric strength | $3,000 \mathrm{VAC} \sim 50 / 60 \mathrm{~Hz}$ for 1 min (between all inputs and outputs) <br> $1,500 \mathrm{VAC} \sim 50 / 60 \mathrm{~Hz}$ for 1 min (between all inputs and F.G.) |
| Vibration | 10 to 55 Hz (for 1 min) amplitude at frequency 0.75 mm in each $X, Y, Z$ direction for 2 hours |
| Shock | $300 \mathrm{~m} / \mathrm{s}^{2}(\sim 30 \mathrm{G})$ i each $x, Y$, direction for 3 times |
| Ems | ENE1000-6-2 Conformation |
| EMI | Enc1000.6.4.conformation |
| Safety standards | EN60950, EN50178 |
| ure |  <br> storage: -25to $65^{\circ} \mathrm{C}$ ( ( otreezing or condensation) |
| Ambient humidity | 25 to $85 \% \mathrm{RH}$, storage: 25 to $00 \% \mathrm{RH}$ ( (no freezing or condensation) |
| 01) Since there is $n$ s. separate input overvoltage protection for the voltage ver the rated iputuvolage range, <br> Sun) <br> 02) 1 ti in the e ated input volage $100 \mathrm{VAC} \sim$ with $100 \%$ load <br> 03) Use the output volage adjusting volume within the voltage varible ernge, If the ov olage exceeds the output |  |
| 04) Rate innutuvoliage <br>  <br>  05) 1 is for ate in inutvoltage 100 VAC~ |  |

## Dimensions

- Unit: mm, efer to the Autonics website for the details of the product.
- SPA-030 050 series


■ SPA-075/ 100 series


## Connections



| Mark | Function |
| :---: | :---: |
| +24V | Output power(t) |
| GND | Outputpower(-) |
| F6 | Frame ground |
| N,L | Input power |




## Over-heating Protection

The over-heating protection function cuts off the output voltage when the temperature nan elementincreases due to overheating
property. Pleasereasesupply powera after cooling the product sufficiently.

## Output De-rating Curve by Ambient Temperature

$\square$ SPA-030-05, SPA-030-24,
I SPA-030-12, SPA 050 05 SPA 050
SPA-050-24, SPA-075-05,
SPA-OT7-542,SPA-100-55,
SPA-100-12, SPA-10-24


- SPA-075-12


