



## Alarm

- Parameter setting is available to set alarm delay time, alarm channel, etc.
- For details on parameter setting, refer to the product manual.

Alarm	Display	Operation	Alarm release <sup>(01)</sup>
Overcurrent	o - C	Stop (SCR OFF)	<ul style="list-style-type: none"> <li>Re-supply power.</li> <li>Press [RET]. <sup>(02)</sup></li> <li>Switch to STOP mode</li> </ul>
Overvoltage	o - u	Stop (SCR OFF)	
Fuse break <sup>(03)</sup>	FUSE	<ul style="list-style-type: none"> <li>DPU1: Stop (SCR OFF)</li> <li>DPU3: when 1-phase break, it maintains output when 2-phase break, it stops output.</li> </ul>	
Heatsink over heat	E E n P	Stop (SCR OFF)	Automatically released within the setting range
SCR error <sup>(03)</sup>	S C r	Stop (SCR OFF)	
Heater break	H - b E	Continues operation	<ul style="list-style-type: none"> <li>Re-supply load input power.</li> <li>Re-supply power.</li> </ul>
Phase loss <sup>(04)</sup>	PL	Stop (SCR OFF)	

- 01) If the alarm occurrence condition is not removed, the alarm is re-occur even if the alarm release method is applied.  
 02) The power is reapplied.  
 03) If the alarm is not released after power is applied again, replace the fuse or check whether the SCR element is abnormal.  
 04) DPU3 only

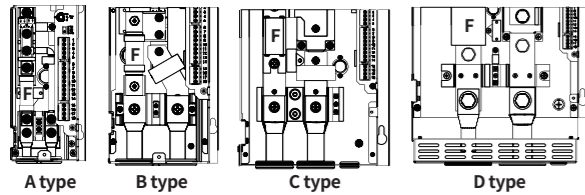
## Replacement of Fuse

- To prevent accident, replace a fuse every two years.
- Must turn off the power before removing the fuse.
- If using a fuse not supplied by Autonics, the performance of the product is not guaranteed. When replacing the fuse, use a fuse of the recommended specification.

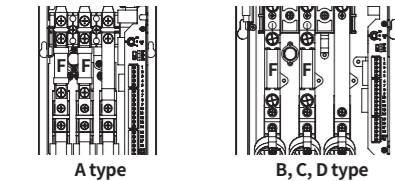
### Fuse position

- After loosening the case screws, there is a fuse on the side of the product.

#### [DPU1]



#### [DPU3]



Among R, S, T inputs, R and S have a built-in fuse, but T does not have an internal fuse. If a fuse is required, install a fuse of the following or equivalent performance outside the product separately.

Device size	Fuse fixed bolt	
	DPU1	DPU3
A	M5	M6
B	M8	
C	M8	
D	M12	

### Fuse recommended specifications

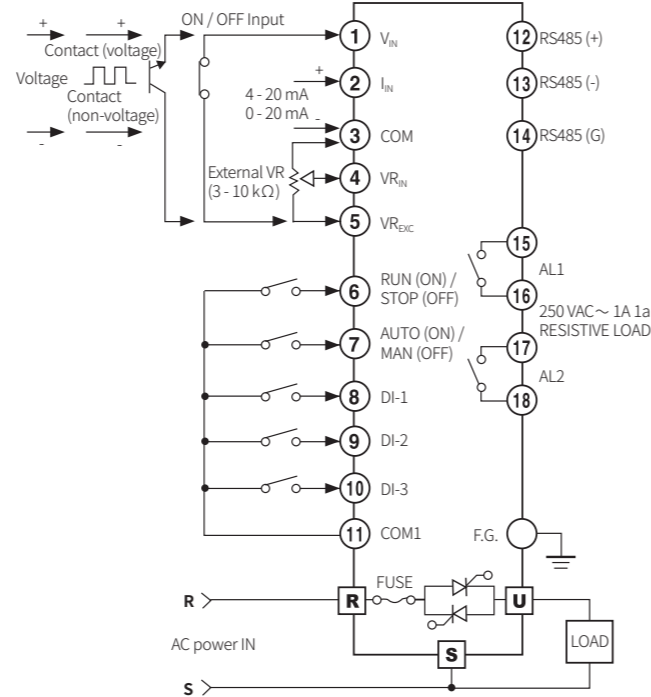
- Rated short circuit test is evaluated as a recommended fuse.

Rated load current [A]	DPU1		DPU3		Manufacturer
	Rec. fuse	Manufacturer	Rec. fuse	Manufacturer	
25	50FE	BUSSMANN	50FE	BUSSMANN	
40	63ET		63ET		
50	80ET		80ET		
70	100FE		170M1367		
80	660GH-125	HINODE	170M1368	BUSSMANN	
100	660GH-160		170M1369		
120	660GH-160		170M1369		
150	660GH-200		170M1370		
180	660GH-250	BUSSMANN	170M1370	BUSSMANN	
200	660GH-250		170M1372		
250	170M2620		170M2620		
350	170M2621		170M2621		
400	A60X500-4(TA)	MERSEN	170M3471	MERSEN	
500	A60X600-4(TA)		170M4466		
600	A60X600-4(TA)		170M4466		

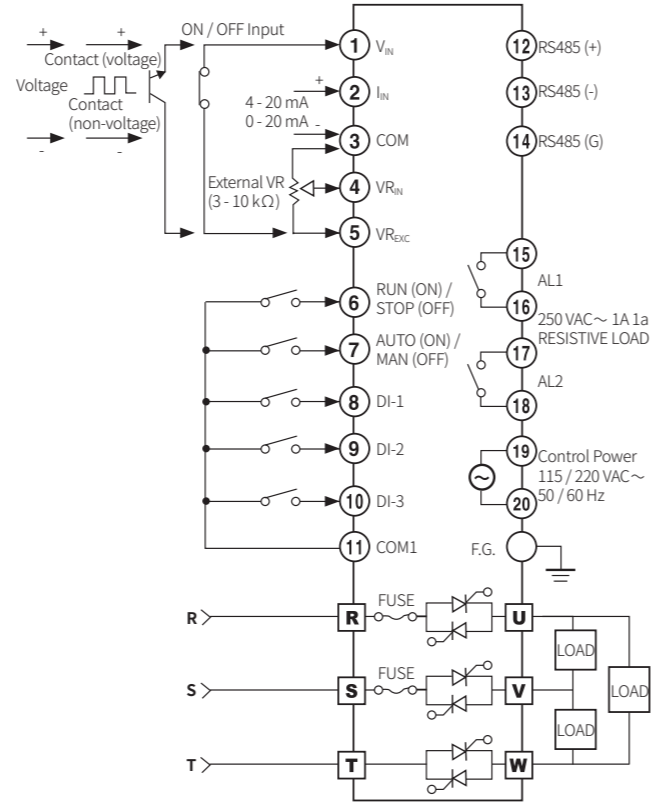
## Connections

- Terminal configuration by model may differ depending on the supported spec.

### DPU1 Series



### DPU3 Series



### Suitable specification

- The following connectors can be used with equivalent or substitute.

Connector type	Connector configuration		Manufacturer
	DPU1	DPU3	
Control input (current, voltage)	TS 05 515B	TS 05 515B	ANYTEK
Alarm output / control power (DPU3)	TS 04 515B	TS 06 515B	
Control input (contact) / RS485 communication	TS 09 515B	TS 09 515B	

## Cautions during Wiring

- DI input switch: For low current, ON resistance: 20Ω or less (including wiring resistance).
- Do not arbitrarily replace the display - main body connector of the remote display model.
- For crimp terminals of load input/output connectors, use the following UL approved terminals. Be sure to use crimp terminals with an insulating sleeve (tube).

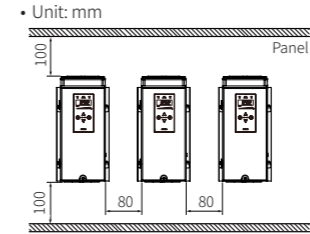
Device size	DPU1/3 wire thickness	Crimp terminal spec.	Bolt tightening torque
A	≥ 25 mm <sup>2</sup>	25-S6 (1)	5.6 to 6.0 Nm
B	≥ 95 mm <sup>2</sup>	95-8 (1)	13.6 to 14.5 Nm
C	≥ 2 × 70 mm <sup>2</sup>	70-8 (2)	13.6 to 14.5 Nm
D	≥ 2 × 185 mm <sup>2</sup>	185-12 (2)	47.0 to 50.0 Nm

## Cautions during Installation

**High Temperature Caution**  
 While supplying power to the load or right after turning off the power of the load, do not touch the body and heatsink. Failure to follow this instruction may result in a burn due to the high temperature.

### Mount space

- When installing multiple power controllers, keep space between power controllers for heat radiation. Horizontal: ≥ 80 mm, vertical: ≥ 100 mm

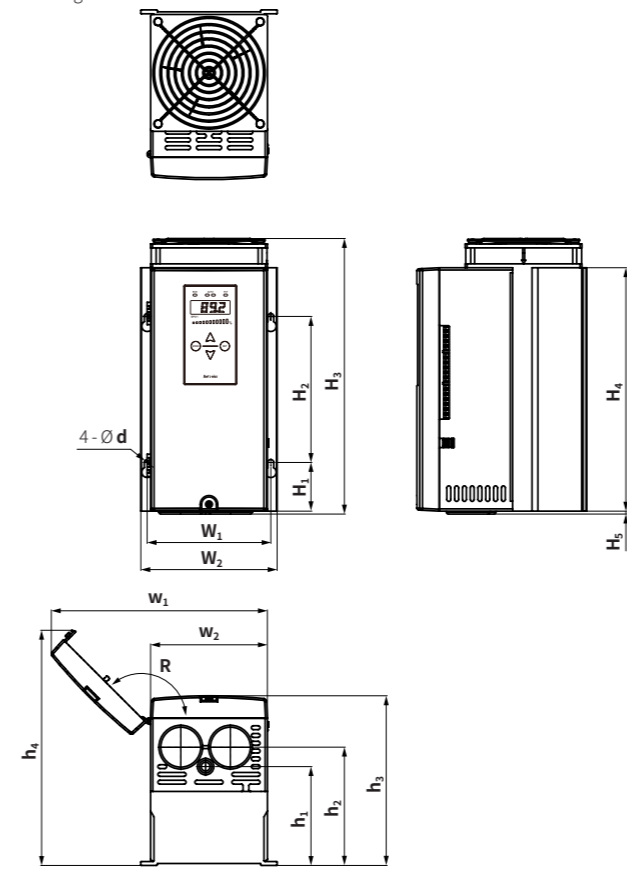


## Dimensions

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

### DPU1 Series

- The figure is based on the B size.

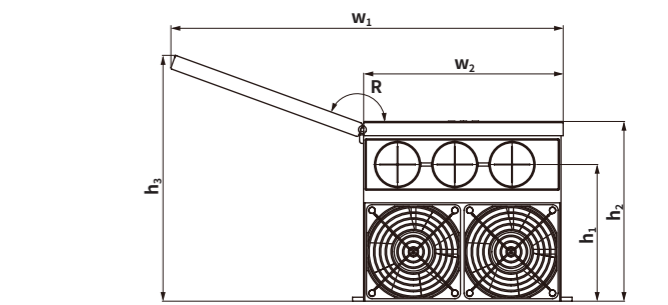
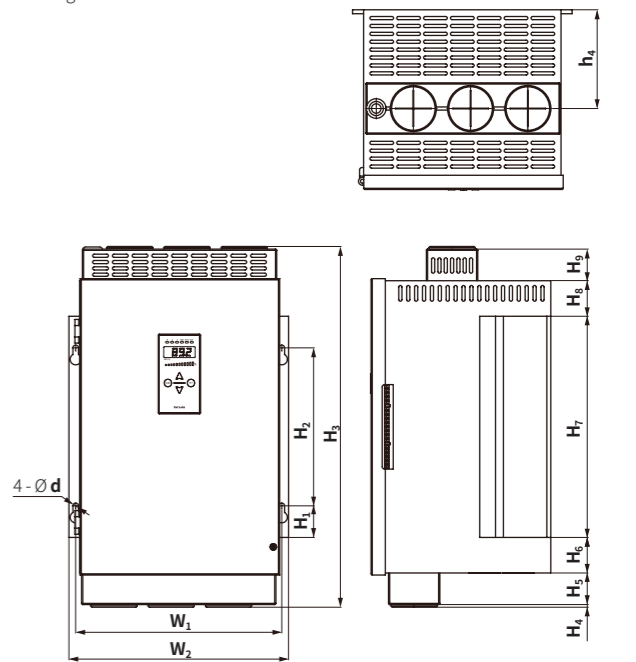


Size	d	R	W <sub>1</sub>	W <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	W <sub>1</sub>	W <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>
A	6	135°	82	97	40	150	233 <sup>(01)</sup>	230	3	154	80	90	110	170.3	209.5
B	6	135°	127	140	50	150	283	250	3	222	120	101.5	121.5	174	241.5
C	7	160°	193	213	50	200	342	300	4	368	185.6	131	132	179	244
D	7	160°	261	278	40	200	422	380	4	497	252.7	138	156	212	296

01) Rated current capacity 70 A model: 263

## DPU3 Series

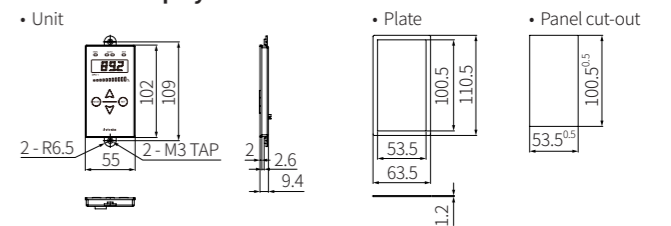
- The figure is based on the C size.



Size	d	W <sub>1</sub>	W <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	H <sub>6</sub>	H <sub>7</sub>	H <sub>8</sub>	H <sub>9</sub>
A	6	127	140	63.5	150	309	H <sub>4</sub> + H <sub>5</sub> = 29		H <sub>6</sub> + H <sub>7</sub> + H <sub>8</sub> = 277			
B	7	195	213	40	200	367	3.5	-	40	280	40	
C	7	261	278	40	200	457	3.3	40	45	280	45	40
D	8.5	405	427	66.5	330	536	4	32.5		H <sub>6</sub> + H <sub>7</sub> + H <sub>8</sub> + H <sub>9</sub> = 495.5		

Size	R	w <sub>1</sub>	w <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>
A	160°	244	122.6	138	200	239	116
B	160°	366	185.6	176	217	278	126
C	160°	497	252.6	173	227.5	311	125
D	160°	755	385.6	204.5	275.5	405	204.5

### Remote display



## Mode Setting

