

■ NODE UNIT MOUNTING RESTRICTIONS (FOR AMBIENT TEMPERATURE 60 °C OR LOWER)

Power supply capacity limitation

Up to eight modules per unit can be mounted on SNB10D safety node unit and SSC60□/SSC50□/SSC10□ safety control unit; however, the number differs by power supply capacity. Use the Table “Coefficients of Module (temperature type)” to calculate the sum of Coefficient A and B, and figure out the number that both $\Sigma(\text{coefficient A}) + \Sigma(\text{coefficient B})$ and $\Sigma(\text{coefficient B})$ are satisfied within the value shown in the Table “Power Supply Capacity Limitation (temperature type, 60°C or lower)”. The values shown in the Table “Power Supply Capacity Limitation (temperature type, 60°C or lower)” differ by the installation environments such as for standard installation and explosion protection.

Table Coefficients of Module (temperature type)

Model	Coefficient A		Coefficient B	
	Single	Dual redundant	Single	Dual redundant
SAI143-H□3 (2-wire setting)	3	6	25	29
SAI143-H□3 (4-wire setting)	3	6	5	10
SAI143-S□3 (2-wire setting)	3	5	22	25
SAI143-S□3 (4-wire setting)	3	5	4	7
SAI533-H□3	3	6	12	23
SAV144-S□3	3	5	2	4
SAT145-S□3	5	8	8	16
SAR145-S□3	5	9	8	16
SDV144-S□3	2	4	2	4
SDV521-S□3	2	4	2	4
SDV526-S33	5	10	3	5
SDV531-L□3	2	4	2	4
SDV53A-S□3	2	4	3	5
SDV541-S□3	3	6	5	7
Other (*1)	5	10	0	0

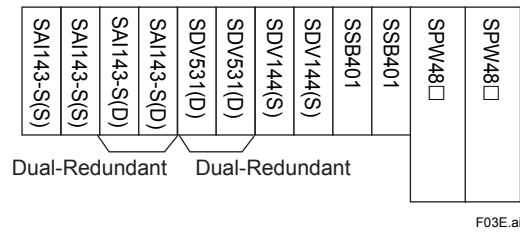
*1: SEC401, SEC402, SNT401, SNT501, SNT411, SNT511, ALR111, ALR121, ALE111

Table Power Supply Capacity Limitation (temperature type, 60°C or lower)

Model	Installation environment	Ambient temperature (°C)	$\Sigma(\text{coefficient A}) + \Sigma(\text{coefficient B})$	$\Sigma(\text{coefficient B})$
SNB10D	Standard installations	$-20 \leq T_a \leq 60$	–	≤ 100
	For FM NI and Type n installation in Class I, Division 2/Zone 2 area:	$-20 \leq T_a \leq 50$	–	≤ 100
		$-20 \leq T_a \leq 60$	–	≤ 88
SSC60S SSC50S SSC10S	Standard installations	$-20 \leq T_a \leq 60$	≤ 121	≤ 85
	For FM NI and Type n installation in Class I, Division 2/Zone 2 area:	$-20 \leq T_a \leq 60$	≤ 121	≤ 85
		$-20 \leq T_a \leq 60$	≤ 97	≤ 85
SSC60D SSC50D SSC10D	Standard installations	$-20 \leq T_a \leq 60$	≤ 97	≤ 85
	For FM NI and Type n installation in Class I, Division 2/Zone 2 area:	$-20 \leq T_a \leq 60$	≤ 97	≤ 85
		$-20 \leq T_a \leq 60$	≤ 97	≤ 85

Example)

When the following I/O modules are mounted on SNB10D.
(Standard installation, ambient temperature 40°C)

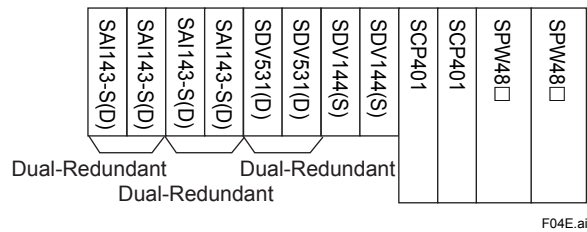


< Calculation method >

$$\begin{aligned} & \Sigma (\text{coefficient B}) \\ & = 22+22+25+4+2+2 \\ & = 77 \text{ (mountable because } \leq 100 \text{ is satisfied)} \end{aligned}$$

Example)

When the following I/O modules are mounted on SSC10D.
(Standard installation, ambient temperature 40°C)



< Calculation method >

$$\begin{aligned} & \Sigma (\text{coefficient A}) + \Sigma (\text{coefficient B}) \\ & = (5+5+4+2+2) + (25+25+4+2+2) \\ & = 18+58 \\ & = 76 \text{ (mountable because the sum of the coefficient A and the coefficient B } \leq 97 \text{ and the coefficient B } \leq 85 \text{ are} \\ & \text{satisfied)} \end{aligned}$$

Channel availability maximum load current, and external power supply voltage

No specific conditions. Also refer to the I/O module specifications.

Mounting rules

No specific conditions.