

unitz Series B3000

Single-phase Phase Control Type Thyristor general-purpose type



Features

- 1 Constant resistance load such as sheathed heater
- 2 Transformer load can be used
- 3 Supports power supply up to 440V
High withstand voltage specification
- 4 Allowable power supply fluctuation range 30-440V
※ Need be set up

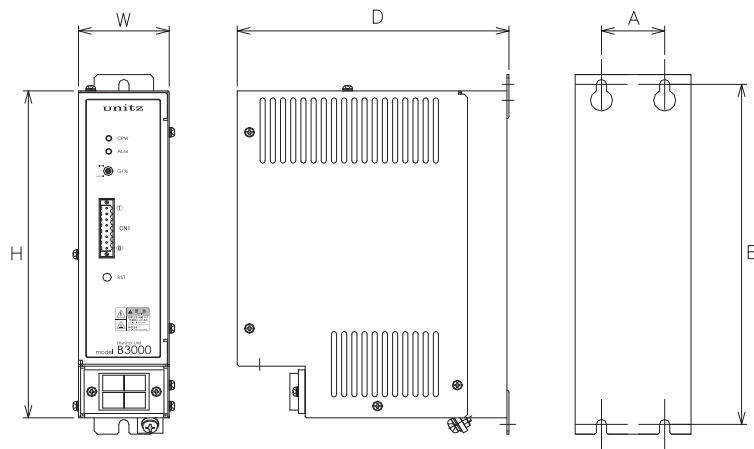
Application

- Use in areas where power supply fluctuations are severe, such as Southeast Asia.
- Adopted in semiconductor devices that require safety, reliability, and stability.

Main Specifications

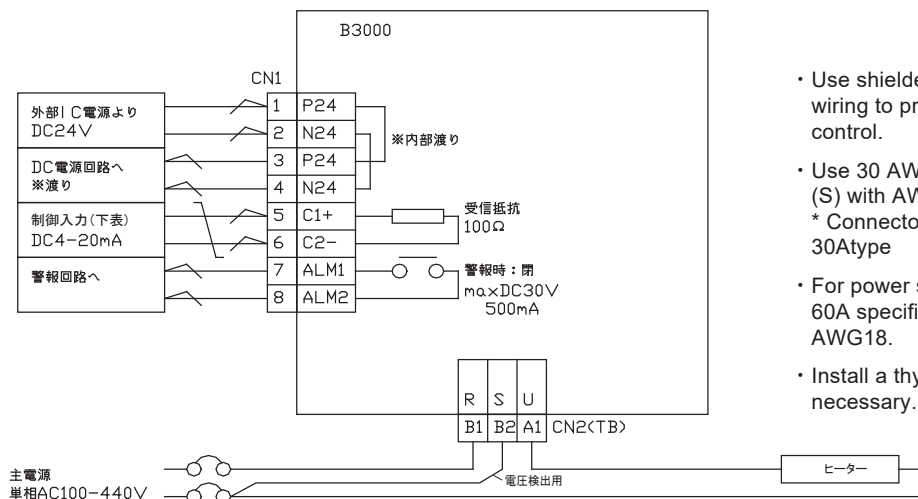
◆ Main circuit power	Single Phase AC100 ~ 440V	Usage Voltage AC110-220-440V Factory setting
◆ Control circuit power	Less than DC24V±10%	Consumption current 30A ~ 120A Spec : 100mA 200A Spec : 350mA
◆ Power control method	Thyristor AC phase	
◆ Control input signal	DC4-20mA	Receive resistance 100Ω
	DC0-5V	
	DC0-10V	
◆ Output adjust method	Front POWER VR 0-100%	
◆ Alarm output	Dry contact output	Closed action when abnormal ※maxDC30V Less than0.5A
◆ Safety protection function	Alarm action	OPTION
	ALM Overcurrent protection	Main circuit overcurrent detection action when above130%
	Overheat protection	Device Abnormal temp. detection action when SCR Latest temp.100℃ * Action at 80℃ when 200A
	Alarm reset switch	
◆ Noise resistance	EMC immunity requirements	<ul style="list-style-type: none"> • IEC61000-4-3 RF conducted immunity • IEC61000-4-4 Fast transient burst immunity • IEC61000-4-5 Lightning surge immunity • IEC61000-4-11 Voltage dip, instantaneous power failure, voltage fluctuation immunity
	SEMI requirement conformity	• Voltage sag immunity Fail-safe design compliant
◆ Environmental specifications	RoHS	
◆ Withstand voltage /dielectric strength	Between Power - Chassis more than DC500V 100MΩ / Between Power - Chassis AC2500V 1 min	
◆ Usage environment	Temp. : 0 ~ 50℃ (Reduce load current to 85% above 40℃) Humidity : Below90% (non-condensing)	

Dimension



	Mounting (mm)		Mounting screw
	A	B	
3030	0	210	M4×2
3060	0	220	M4×2
3120	75	230	M5×4
3200	100	235	M5×4

Connection example



- Use shielded wires for signal wiring to prevent erroneous control.
- Use 30 AWG power supply wiring (S) with AWG12 to AWG10.
* Connector connection for 30A type
- For power supply wiring (S) over 60A specifications, use AWG14 to AWG18.
- Install a thyristor breaker / fuse if necessary.

Type List

Code	Specification	Dimension (mm)	Weight
B3	AC phase control method, resistance to load, power regulator		
Current capacity	03 30A	W54×H200×D160	1.4 kg
	06 60A	W90×H210×D250	2.9 kg
	12 120A	W115×H220×D270	4.5 kg
	20 200A	W150×H227×D285	5.9 kg
Power ※ Factory setting	1 AC110V (AC100-120V)		
	2 AC220V (AC200-240V)		
	4 AC440V (AC380-440V)		
Control input type	-1 DC4-20mA (Receive resistance 100Ω)		
	-2 DC0-5V		
	-3 DC0-10V		
Option	-L Over-current Alarm Overheat Alarm Option		
	-G Gradient volume		
	-LG Select L/G at same time		

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