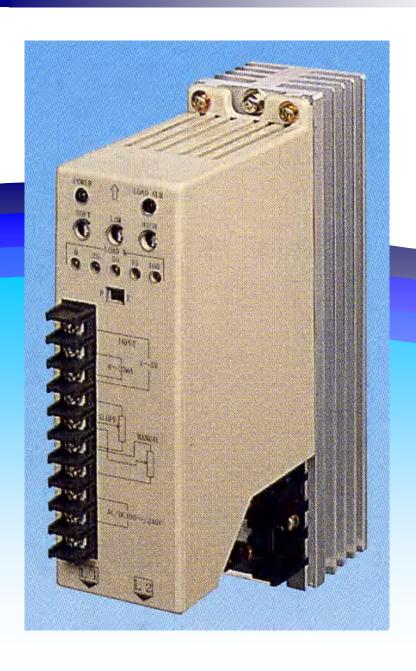
SCR alarm function is equipped standardly.

The change of Phase control and Zero crossing control is supported.

Single-phase Power Controller

FPZ series





Description of the Panel Numeral Name Description Comes on when you turn the operation power switch on. The lamp blinks when 1 POWER lamp (Green) POWER LOAD ALM a problem occurs in the unit. 2 LOAD ALM lamp (Red) Comes on when there is a load break SOFT HIGH 2 or SCR short. 1 Use this dial to set soft startup. SOFT start dial 3 108 4 3 Use this dial to set the HIGH control 4 HIGH control dial **(B)** values (6) LOW control dial (5) Use this dial to set the LOW control ((H) INPUT LOAD % lamps (8) Indicate the percentage (%) of the **(⊕**) (1) $1\sim5$ V (Yellow) load voltage. 4~20mA

7

8 SCR alarm output When load is disconnected,

Control selector

switch

Or SCR short-circuit, Or SCR opens, between contacts opens.

Turning this switch to 'P' position,

phase control becomes active. Turning the switch to 'Z' position,

zero cross control becomes active.

 $0.5\sim10\mathrm{sec}$

Dimensional Outline Drawings

MANUAL

SLOPE |

NO SCR ALARM●

AC/DC100~/240V

 \triangle

1

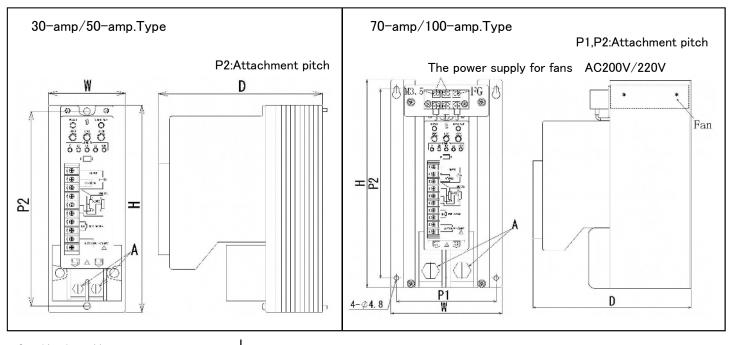
1

1

1

(⊕)

1



Outside size table			(UNIT:	:mm)			
	W	Н	P1	P2	D	weight(kg)	Α
30 A	48	170		160 ± 0.5	135	1	M4 bolt
50 A	68	185		175 ±0.5	145	1.5	M5 bolt
70 A	116	220	104	200	165	2.6	M5 bolt
100 A	116	220	104	200	165	2.6	M8 bolt

Specifications

Item	Specifications	Note		
Control system	Phase control, zero crossing c	P/Z		
		Panel slide switch change		
	Current capacity	30A,50A,70A,100A		
Load	The minimum load current	0.3A (At the time of a full output)		
	Application load	Resistance load		
	voltage	AC100 to 240V·380V/400V/440V	It specifies either.	
Load power supply	Rated frequency	50Hz,60Hz (Automatic sorting)		
	Permission frequency change	±1Hz of rated frequency		
	Number of phases	Single phase		
Operation	voltage	100 to 240V AC/DC	Free power supply	
power supply	Power consumption	7VA MAX		
Control input	Current signal	4 to 20mA DC (100Ω)	The change by the terminal	
(Automatic setup)	voltage signal	1 to 5V DC (25KΩ)	connection position	
External	MANUAL manual setup	0 to 100%	External volume setup	
setting function	SLOPE External slope setup	0 to 100%	External volume	
Internal	SOFT software start setup	0.5 to 10sec	Panel volume setup	
setting function	HIGH output setup	0 to 100%	Panel volume setup	
	LOW output setup	0 to 50%	Panel volume setup	
Output	Output voltage range	0 to 98%		
	Input-and-output property	Straight line property		
	POWER Power supply display lamp	The light is switched on with a power supply ON.	It blinks at the time	
			of the abnormalities in CPU.	
Monitor function	LOAD ALM alarm lamp	Heater disconnection alarm	When the heater is being used one	
	LOAD% Load factor display lamp	0%,25%,50%,75%,100%	Five-step display	
Ambient temperature of operation	Performance guarantee range	0°C to +40°C	Humidity 30% to 90%RH	
Cooling system	Natural air cooling (30A·50A AC), Comp			
Insulation resistance	between the main circuit terminals and the case	Over 50 MΩ (500 VDC)		
Insulation withstand voltage		2000 VAC for one minute		

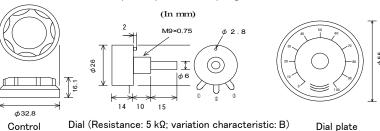
Accessories

By connecting optional accessories

(Slope setting machine, Manual setting machine) to a unit terminal,

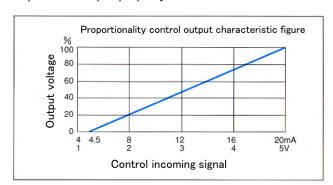
Slope setup and the change of manual operation [be / automatic] are possible from the outside.

Volume for slope setup, manual setup, high-low control

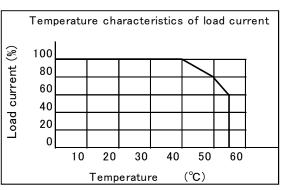


Property

Input-and-output property



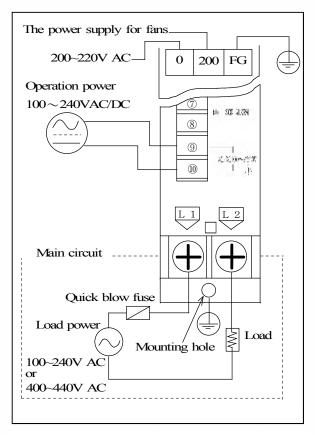
Load current temperature property



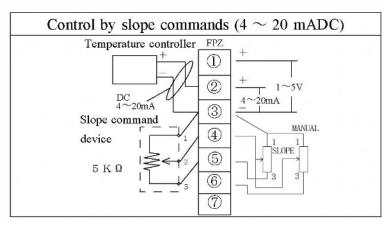
Description of Type Code

Specification	Description	Specification Code FPZ - [] R S				Load power voltage
Product type		FPZ				
Rated current	Max. load current - 30 A		03	1	1	- 2200V AC
Rated current	Max. load current - 50 A		05 07	į		- 4400V AC
	Max. load current - 70 A				i	
	Max. load current - 100 A		10	į	i I	
Applicable load	olicable load Linear (R) load		1			
Alarm ouput	With SCR alarm output		1		S	

The example of external connection



* As for the product of 70A and 100A, a fan drive power supply is needed separately.



Business line

Automatic temperature control meter

Various temperature detection edges

Direct-current ampere-hour meter

Direct-current ampere-hour meter by microcomputer control

Thyristor power controller

Heater disconnection alarm

In addition, electronic application apparatus







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Caution in using

- Since this product is not manufactured for the applications stipulated in the Export Trade Control Ordinance, it cannot be used for the purpose of weapons of mass destruction.
- The final application and final customer must be checked so that it will not be used for weapons of mass destruction (military application, military equipment). Due attention must also be paid to the re-sale so that it will not be illegally exported.