

TPR-3SL

Slim type three-phase power regulator

- It is the slimmest type among 3-phase thyristor power regulators under the same rating (110 mm)
- Good design of the heat sink and various protection circuits make it durable.
- Improved safety by separation of power supply of circuit and power supply of load (Free Voltage, 90 - 450 V a.c.)
- Various alarm functions (Short circuit of heater, Imbalance of load, Overheating of heat sink, Overcurrent etc.)



Specification

■ TPR 40/55/70

Model	Low	TPR-3SL040L	TPR-3SL055L	TPR-3SL070L
	High	TPR-3SL040H	TPR-3SL055H	TPR-3SL070H
Circuit input power		100 - 240 V a.c. 18 W		
Rated current		40 A	55 A	70 A
Weight		4,044 g		4,324 g

■ TPR 90/130/160

Model	Low	TPR-3SL090L	TPR-3SL130L	TPR-3SL160L
	High	TPR-3SL090H	TPR-3SL130H	TPR-3SL160H
Circuit input power		100 - 240 V a.c. 20 W		
Rated current		90 A	130 A	160 A
Weight		9,100 g		

Common Specifications

Load voltage	Low	100 - 240 V a.c.
	High	380 - 440 V a.c.
Power frequency		50 Hz / 60 Hz (Dual usage)
Applying load		Resistive load
Control Input	Current input	4 - 20 mA d.c. (Impedance : 100 Ω)
	Voltage input	1 - 5 V d.c.
	Contact input	ON / OFF
	External VR	External volume (10 kΩ)
Control method		Phase control, Fixed Cycle control, Variable Cycle control, ON/OFF control (General type only)
Movement type		SOFT START, SOFT UP/DOWN
Output voltage		More than 98 % of the power voltage (in case of maximum current input)
Cooling method		•Natural cooling (40 A, 55 A) •Forced cooling (70 A, 90 A, 130 A, 160 A)
Display method		Output display by LED

Insulation resistance	Min 100 MΩ (based on 500 V d.c. mega)
Leakage current	Less than 20 mA
Rated impulse withstand voltage (Uimp)	2,500 V
Output control range	0 ~ 100 %
Dielectric strength	3,000 V a.c. 50/60 Hz for 1 min
Line noise	Noise by noise simulator (2,500 V)
Ambient temperature & humidity	0 ~ 40 °C (without condensation), 30 ~ 85 % RH
Storage temperature	-25 °C ~ 70 °C
Certification	CE

■ Suffix code

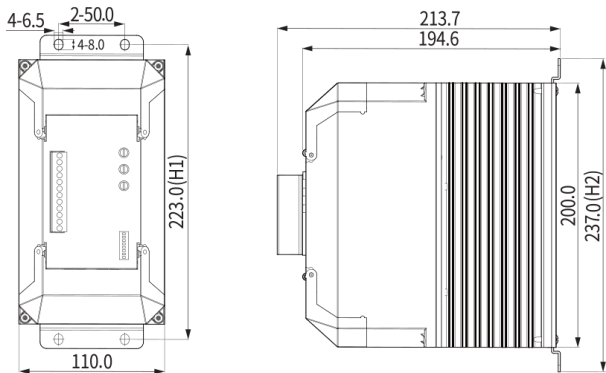
Model	Code					Content
TPR-3SL	☐	☐	☐	☐	☐	Slim type 3-phase thyristor power regulator
Rated current	040					40 A
	055					55 A
	070					70 A
	090					90 A
	130					130 A
	160					160 A
Load voltage	L					100 - 240 V a.c. (Low)
	H					380 - 440 V a.c. (High)
Option		C				RS485
			N			No Fuse
				F		Fan mounted (option for 40A, 55 A models)

- Circuit and fan need 100 - 240 V a.c. voltage power separately.

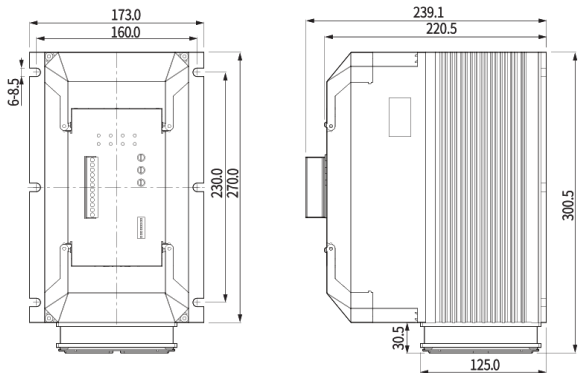
■ Dimension & Panel cutout

[Unit : mm]

■ 40/55/70 A



■ 90/130/160 A



	H1	H2
70 A (With cooling fan)	249.5 mm	263.5 mm