

TPR-3

3 phase power regulator

- Power failure and fuse break alarm output
- Over current detection alarm output
- Soft start & Soft down
- Current limitation setting
- SIBS built in



Suffix code

Model	Code				Information
TPR-3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 phase power regulator
Control type	P				Phase control, ON/OFF control
Power supply voltage	220				220, 380, 440 V select (*Voltage selectable)
Rated current		100			70 A, 100 A, 150 A, 200 A, 250 A (*Capacity selectable)
Control input			M		4 – 20 mA, 1 – 5, 0 – 5, 0 – 10 V DC, ON/OFF Control manual setting
Applying load				R	Applying load

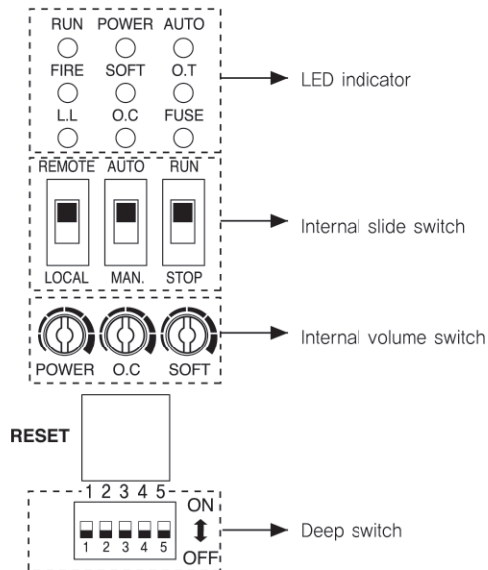
Specification

Model	TPR-3P□70MR	TPR-3P□100MR	TPR-3P□150MR	TPR-3P□200MR	TPR-3P□250MR
Rated current	70 A	100 A	150 A	200 A	250 A
Function	• Power failure and fuse break (L,E) alarm output • Over current detection alarm output • Current limitation setting • Soft start down • Manual setting (slope setting)				
Display method	Display the power open phase and load break by the LED, power supply voltage(PL), Power failure and fuse break (L,E) alarm output, over current detection(OC)				
Control method	Phase control, ON/OFF control				
Applying load	Resistive load				
Power supply voltage	220, 380, 440 V AC				
Power frequency	50/60 Hz(Dual usage)				
Output voltage	More than 97 % of the input voltage (min load more than 0.5 A)				
Control input	4 – 20 mA DC ※ 1 – 5 V DC, 0 – 5 V DC, 0 – 10 V DC				
External volume	Manual set volume(B10kΩ)				
Alarm output	Power failure and fuse break (L,E) alarm output, over current detection(O/C) Alarm output, Relay contact output(1a contact), 5 A 250 V AC max.				
Insulation resistance	Min 20 MΩ , 500 V DC (input terminal–power terminal)				
Dielectric strength	2,000 V, for 1 min (input terminal–power terminal)				
Weight	Approx 10850 g		Approx 10850 g		

Environment specification

Cooling method	70, 100A : Natural cooling / 150, 200, 250 A : Forced cooling
Ambient temperature	0 ~ 50 °C (Refer to the ambient temperature characteristic)
Ambient humidity	35 ~ 85 % RH (No condensation allowed)
Storage temperature	-25 ~ 70 °C

●● Name of each part



■ LED indication

- RUN : Always ON when operating (OFF when selecting STOP)
- POWER : ON when AC power is supplied in
- FIRE : ON when output is generated and becomes ON proportional to an amount of output (Continuously ON with 100% output)
- AUTO : ON when selecting the AUTO MODE
- SOFT : ON when using the SOFT START function
- OT : ON when heat-sink is over heated, alarm output, operation stops
- LL : ON when value less than the load break set value is generated and ON when load current is less than 1 A.
- OC : ON when value more than O.C set value is generated, alarm output, operation stops
- FUSE : ON when internal FUSE breaks, alarm output, operation stops

■ internal slide switch (SLIDE S/W)

- REMOTE : Use external volume (VR)
- AUTO : Use control input
- RUN : Always set at RUN when operating
- STOP : All function stop when selecting stop during operation
- LOCAL : Use internal volume (VR)
- HAND : Ignores the control input

Thyristor Power Regulator

Internal volume (VR)

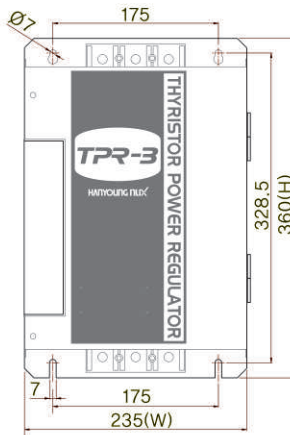


Deep switch (DIP S/W)

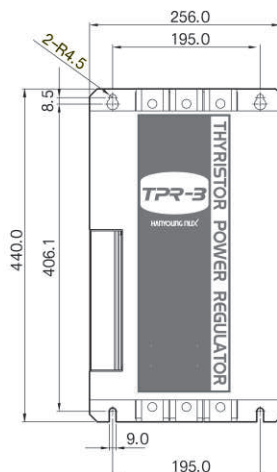
Input set	SW1	SW2	Operation	SW3	Load broken wire	SW4	SW5
4 – 20 mA	OFF	OFF	Resistive load	OFF	NON	OFF	OFF
0 – 5 V	OFF	ON	Inductive load	ON	30%	ON	OFF
0 – 10 V	ON	OFF			40%	OFF	ON
1 – 5 V	ON	ON			50%	ON	ON

Dimension (Unit : mm)

● Model : TPR-3(70, 100 A)

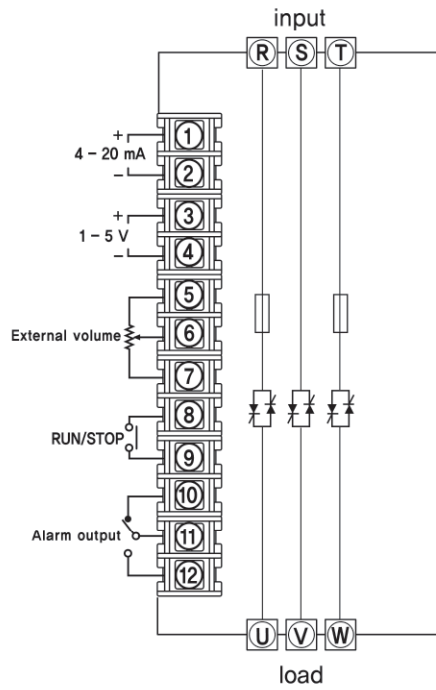


● Model : TPR-3(150, 200, 250 A)



●● Connection diagram

- Model : TPR-3



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