

TPR-3P

3-Phase Power Regulator

H Selection Guide

Control constant	Power voltage	Rated current	Model	
		200 A [200]	TPR-3P220V200A	
2 phase	220 V.a.c. [220]	250 A [250]	TPR-3P220V250A	
		320 A [320]	TPR-3P220V320A	
		500 A [500]	TPR-3P220V500A	
3-phase		200 A [200]	TPR-3P380V/440V200A	
	380 V a.c. / 440 V a.c. [380/440]	250 A [250]	TPR-3P380V/440V250A	
	380 V a.c. / 440 V a.c. [380/440]	320 A [320]	TPR-3P380V/440V320A	
		500 A [500]	TPR-3P380V/440V500A	

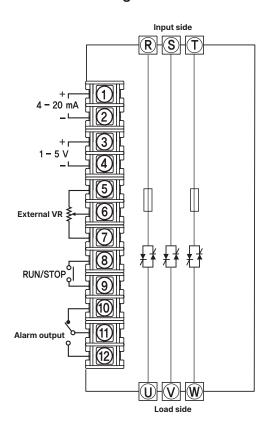
H Suffix code

Category	Code		Description	
TPR-3P	0		Three-phase power regulator	
Power voltage	220		220 V a.c	
	380/440		380 V a.c. / 440 V a.c.	
Rated current		200	200 A	
		250	250 A	
Rated Current		320	320 A	
		500	500 A	

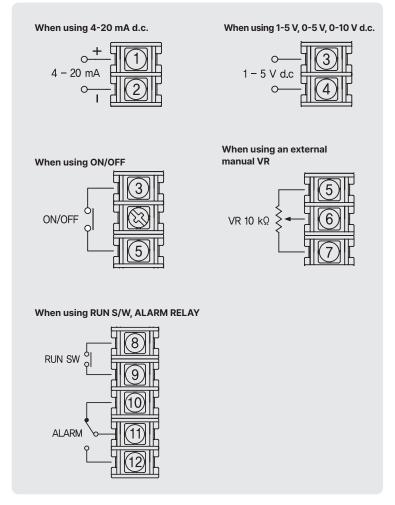
H Specifications

Category		Description					
Pov	ver voltage	220 V a.c. / 380 V a.c. / 440 V a.c.					
Power frequency		50/60 Hz (compatible)					
Rated current		200 A	250 A	320 A	500 A		
Protection circuit			Alarms for fuse break, overcurrent detection, and heat sink overheat				
Applied load		Resistive load					
	Current input	4 - 20 mA d.c.					
Control	Voltage input	0 - 5 V d.c., 1 - 5 V d.c., 0 - 10 V d.c.					
input	Contact input	ON/OFF					
	External VR	External variable resistor (10 kΩ)					
Conf	trol method	Phase control, ON/OFF control, cycle control					
Starting method		Soft start / Soft down					
Output voltage		95% of the power voltage or higher (at maximum current input)					
Cooling method		Forced cooling Apply separate power to drive fans					
Display method		Output display via LED					
Insulation resistance		100 MΩ or higher (500 V d.c. in megaohms)					
Adjustable output range		0 to 100%					
Dielectric strength		2,000 V a.c. (1 minute at 50/60 Hz)					
Line noise		Noise generated by a noise simulator (2 kV)kV					
Ambient temperature/ humidity		0 to 40 °C, 35 to 85% RH (however, there should be no condensation)					
Storage	e temperature	-25 to 70 °C					
	Weight	200/250 A: Approximately 1,500 g / 320 A: Approximately 2,200 g / 500 A: Approximately 3,500 g					

H Connection diagram

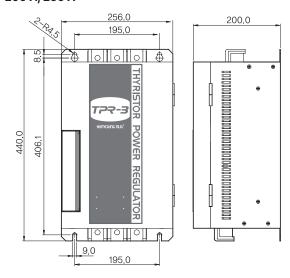


How to wire input signal terminals

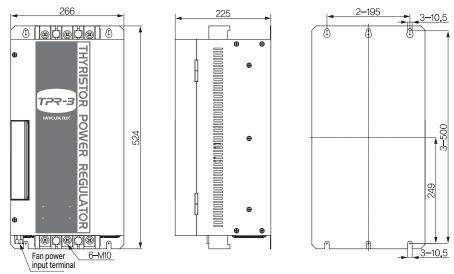


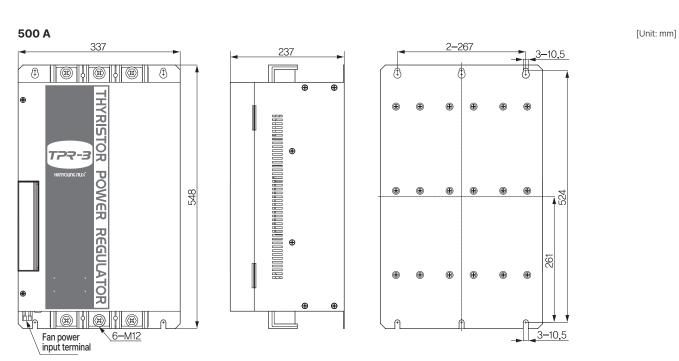
H External dimensions

200 A, 250 A [Unit: mm]



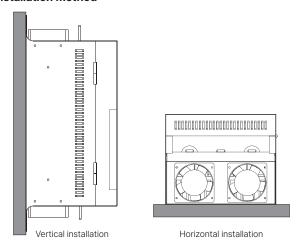
320 A [Unit: mm]





H Installation guide and precautions

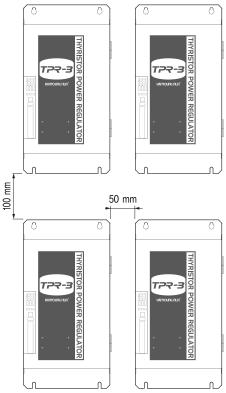
Installation method



Install the product vertically.

If the product needs to be installed horizontally due to limited space, make sure to use only 50% of the product's load current.

Installation spacing



When installing multiple products in close proximity, please ensure that they are at least 50 mm apart horizontally and at least 100 mm apart vertically.

Installing the control panel

- 1. Take airflow into consideration when installing the product.
- 2. The lower the ambient temperature inside, the more durable and reliable the product will be.
- 3. Remove any element that could obstruct the airflow over the product as much as possible.
- 4. Ensure the product is properly ventilated to keep the temperature inside the panel below 40 °C.
- 5. When the OT LED lights up, please check the temperature inside the panel and ensure that the cooling fan located below the TPR heat sink is operating properly.
- 6. Make sure that the R, S, and T phases are wired correctly.

