



Thyristor Power Regulator

TPR-2N 1-phase thyristor power regulator

Specification

MODEL	TPR-2N□□□	TPR-2N□□□□
Appearance		
W X H X D	92 X 100.2 X 131.6	115.2 X 194.7 X 123.6
Function	• Soft Start / Soft Down • Slope setting	• Soft start • Overheated alarm (O.T) • Alarm output • Slope setting • Output limit setting • Overcurrent detection (O.C) • Load break detection (L.L)
Power supply voltage	110 V a.c. / 220 V a.c. / 380 V a.c.	110 V a.c. / 220 V a.c. / 380 V a.c. / 440 V a.c.
Operating Frequency	50 / 60 Hz (Dual usage)	
Rated Current	25 A, 35 A	50 A, 70 A
Protection Circuit	Protected by fast acting fuse (external attachment)	
Applied Load	Resistive Load/ Inductive Load	
Control Input	Input Current : 4 – 20 mA d.c. Input Voltage : 1 – 5 V d.c. Input Contact Point : ON – OFF, External VR (10 kΩ)	Current input : 4 – 20 mA d.c., Voltage input : 1 – 5 V d.c. / 0 – 10 V d.c. (Option) Contact input : ON / OFF, External VR : External volume (10 kΩ)
Control Method	Phase control, Cycle control, ON/OFF control (selected by dip switch)	
Movement type	Soft start / Soft down (Time : 0 ~ 50 sec)	Soft start / Soft down
Output Adjusting Range	Above 95 % input voltage (when putting maximum of input voltage)	
Cooling Method	Natural Cooling	50 A(Natural cooling), 70 A (Forced cooling)
Indicator Function	LED lighting for output status	
Insulation Resistance	100 MΩ min (500 V d.c. mega standard)	
Output Range	0 ~ 100 %	
Dielectric Strength	2,000 V a.c. at 50/60 Hz for 1 minute	
Line Noise	Noise by noise simulator (pulse width 1 μs : ±2 KV)	
Ambient temperature	0 ~ 50 °C (Without condensation)	
Ambient Humidity	30 ~ 85 % RH	
Storage Temperature	-25 ~ 70 °C	
Weight	Approx. 960 g	Approx 2,000 g

Suffix code (25 A / 35 A)

※ Control Method : Phase control (factory default)

Model	Code	Information
TPR – 2N	□ : □	1-phase power regulator
Power supply voltage	110 :	110 V a.c. 50/60 Hz (Dual usage)
	220 :	220 V a.c. 50/60 Hz (Dual usage)
	380 :	380 V a.c. 50/60 Hz (Dual usage)
Rated current	25	25 A
	35	35 A

Suffix code (50A / 70A)

Model	Code	Information
TPR – 2N	□ : □	1-phase power regulator
Power supply voltage	110 :	110 V a.c. 50/60 Hz (Dual usage)
	220 :	220 V a.c. 50/60 Hz (Dual usage)
	380 :	380 V a.c. 50/60 Hz (Dual usage)
	440 :	440 V a.c. 50/60 Hz (Dual usage)
Rated current	50	50 A
	70	70 A