

Thyristor Power Unit

AT3



SALIENT FEATURES

- ◆ Economical
- ◆ No Electrical Interference
- ◆ Accurate Control of Temperature
- ◆ Individual Trouble Shooting LED Indication
- ◆ Easy Installation and Wiring

Model Number Legend

AT3 -
 1 2

1. Series

AT3

Phase

3: 3 Phase

2. Amps Rating

30A:	30 Amps	160A:	160 Amps
40A:	40 Amps	200A:	200 Amps
60A:	60 Amps	250A:	250 Amps
80A:	80 Amps	300A :	300 Amps
100A:	100 Amps	400A :	400 Amps
120A:	120 Amps		

Example

AT3-30A

AT Series - 3 Phase - 30 Amps

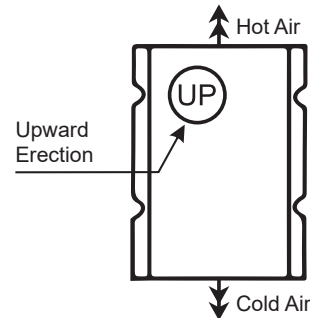
NOTE: Contact us for models not shown in catalogue.

Models	AT3-_A
Amps Rating	30, 40, 60, 80, 100, 120, 160, 200, 250, 300 & 400Amps
Input Signal	4-20mA, 1-5vdc, 0-10v
Load Voltage	3 phase
Ambient Temperature	-10~70° C
	Max 90%

Relative Humidity

Installation

1. The SCR unit will produce heat itself during operation, please erect it upward according to the instruction.
2. The panel must be upward ventilated for hot air. we recommend mounting a ventilating.
3. Do not install the unit in the space with high temperature and poor ventilating. Do not operate the unit exceed 70% of rated output in case of above mentioned poor ambient conditions.



◆ Load Test

The SCR unit will not well functioned in case of less output load (0.6Amp). Please connect the load at least 0.6Amp.

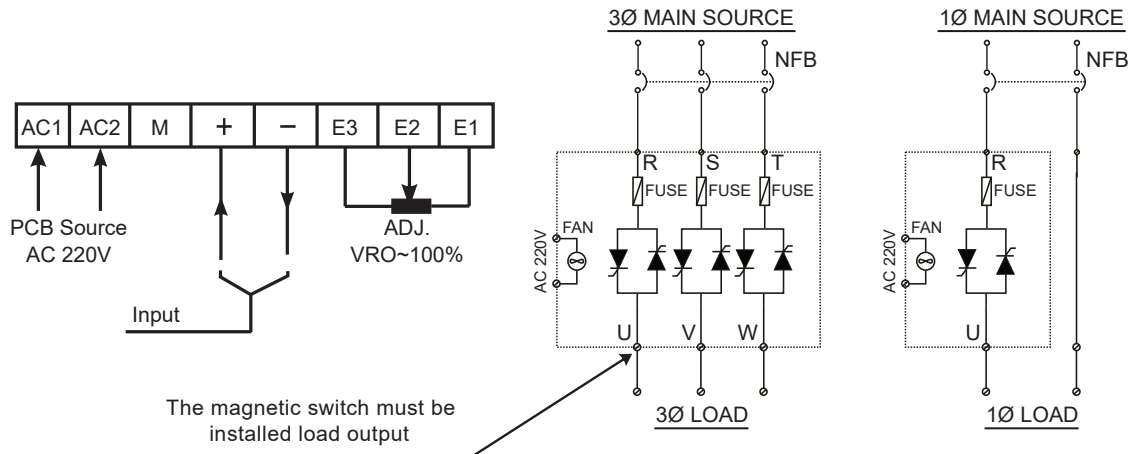
LED Lamp Indication and Trouble Shooting

Pos. NO	Color	Indicating Condition	Causes of Malfunction	Treatment and Trouble Shooting
PWL (L1)	Red	No indication of power supply lamp. Lamp lighting means normal	1. No power of Aux. source 2. Malfunction on PCB board 3. Over temperature of SCR	1. Check the AUX .power supply 2. Repair or replace the PCB board 3. Check the SCR temperature
IN (L2)	Green	No indication of input lamp. Lamp lighting means normal	1. No output signal from TIC 2. Output signal from TIC is reverse 3. Max value of internal output or External VR is zero set	1. Check the output signal of TIC 2. Reverse the connecting wiring of TIC 3. Check the setting of internal and external VR output
OUT (L3)	Yellow	No indication of output lamp. Phase angle control lamp lighting means normal. Zero crossing control lamp blinks means normal	1. No output signal from TIC or reverse the connecting of output signal 2. Lamp IN lighting and lamp OUT no indication 3. Lamp OUT lighting but no current output. OUT no indication	1. Check the lamp IN, NO indication means no output signal from TIC or reverse wired 2. Repair or replace the PCB board in case of the malfunction from the board. 3. Check main power supply or fuse
ERR (L4)	Red	Over-temp of SCR lamp light. Lamp light means SCR over temp.	1. Malfunction or dirt blocking on the ventilation fan 2. High ambient temperature or poor ventilation	1. Replace or clean the dirt of the impeller. 2. Improve the ventilation condition

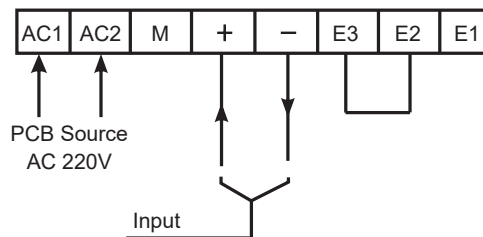
Circuit Connections

AT3

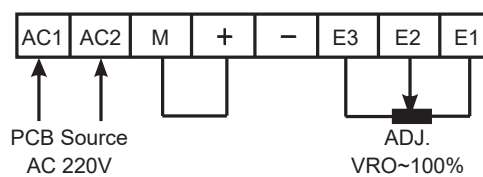
◆ Voltage, current signal with adjustable External VR



◆ Voltage, current signal with none VR.



◆ Voltage Current Signal with adjustable External VR*



*Note: 1. Remove the Jumper J6 inside the power PCB Board.

2. Remove the short link between E3 & E2 while using External VR.

3. Connect M and +

◆ Contact control signal with adjustable External VR

