

## MTR240-□ Series



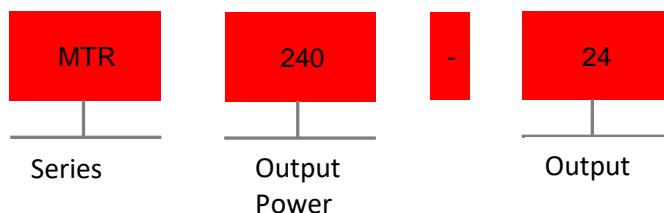
### ▲ Features

- 340 ~ 550V 3-phase wide range input(2-phase input is possible )
- Width only 63mm
- Built-in active PFC function compliance to EN61000-3-2
- High efficiency 92% and low power dissipation
- Protetions: Short-circuit/Overload/Over voltage/Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Install on DIN rail TS-35/7.5 or 15
- DC OK relay contact(optional)
- 3 years warranty

### ▲ Applications

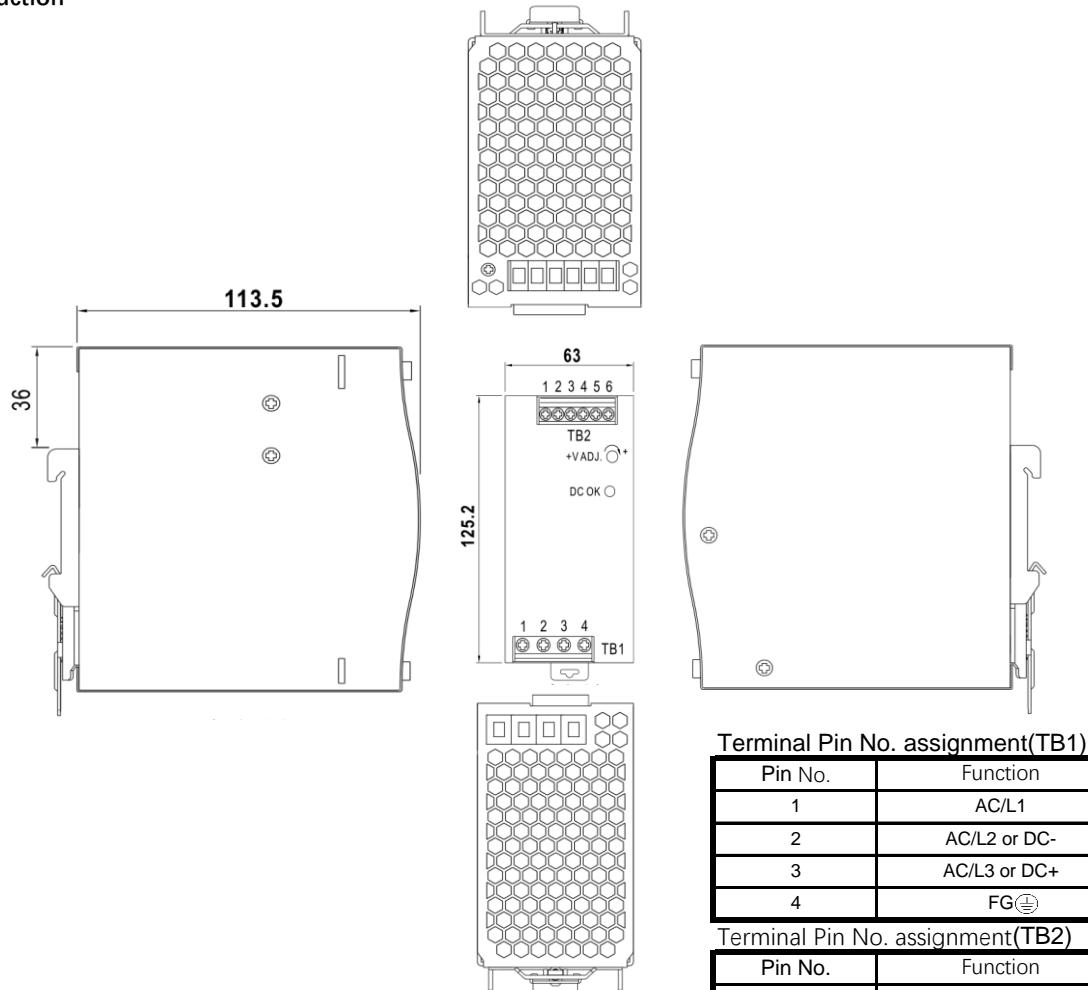
- Industrial control system
- Semi-conductor manufacturing equipment
- Factory automation
- Mechanical equipment

### ▲ Model Encoding

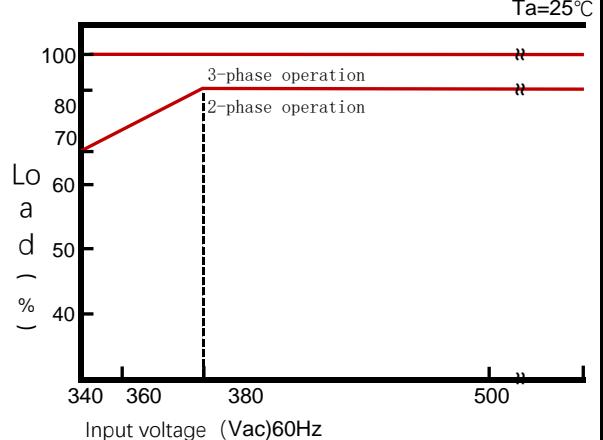
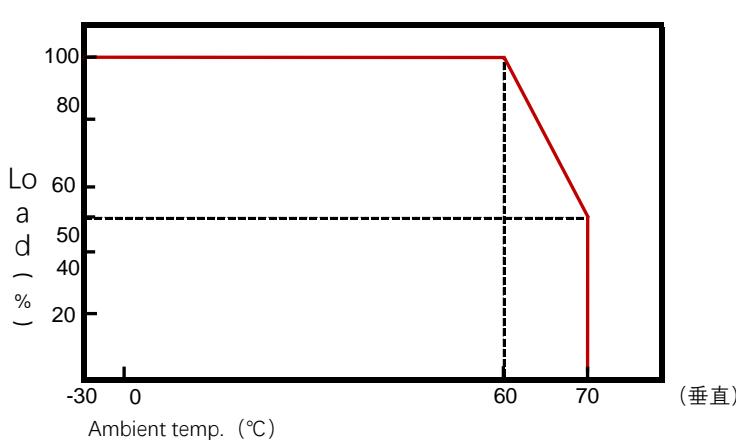


## Specification

Input		
Input Voltage note1	3-phase 340~550VAC(2-phase operation is possible when connecting L1,L3,FG or L2,L3,FG) or 480~780VDC	
Input Current(Typ.)	0.69A/400VAC 0.6A/500VAC	
Input Frequency	47-63Hz	
Inrush Current(Max.)(Typ.)	Cold start: 50A	
Power factor(Typ.)	PF≥0.53/400VAC PF≥0.52/500VAC(Full load)	
Leakage Current	< 2.0mA/530VAC	
Output		
DC Voltage (V)	24V	48V
Rated Current (A)	10A	5A
Current Range (A)	0-10A	0-5A
Rated Power (W)	240W	240W
Ripple & Noise (Max.) *2	100mVp-p	120mVp-p
Voltage ADJ Range	24-28V	48-55V
Voltage Tolerance *3	±1%	±1%
Line Regulation	±0.5%	±0.5%
Load Regulation	±1%	±1%
Efficiency	92.0%	92%
Start Rise Time	2000ms 60ms/400VAC ; 1500ms 60ms/500VAC(Full load)	
Hold Up Time	20ms/400VAC 40ms/500VAC(Full load)	
Status Indicator	Green	
Protections		
Overload	105%-130% of rated output power Protection type: Constant current limiting, then Hiccup mode after 3sec.	
Over Voltage (V)	30-36V	56-65V
	Protection type: Hiccup mode, recovers automatically after fault condition is removed	
DC OK Output Capacity	60VDC/0.3A,30VDC/1A,30VAC/0.5A resistive load	
Safety & EMC		
Withstand voltage	I/P-O/P:4.87KVAC I/P-FG:2.4KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC	
Isolation resistance	I/P-O/P , I/P-FG, O/P-FG:>100M Ohms/500VDC/25°C/70%RH	
Safety standards	UL61010-1, UL61010-2-201, EN61558-1, EN61558-2-16, AS/NZS 62368.1	
EMC emission	EN55032 (CISPR32), EN61204-3 ClassB,EN61000-3-2,-3	
EMC immunity	EN61000-4-2,3,4,5,6,8,11,EN55024,EN61000-6-2(EN50082-2), EN61204-3,A class heavy industrial standard	
Environmental		
Working Temp. note5	- 30 ~ +70 °C (Refer to Derating curve)	
Storage Temp.& Humidity	- 40 ~ +85°C, 10 ~ 95%RH non-condensing	
Working Humidity	20 ~ 95%RH,non-condensing	
Temp.coeffecient	±0.05%/°C(0-50°C)	
Vibration	10-500Hz,2G 10min/1 Cycle, 60min each along X,Y,Z axes	
Altitude	5000m	
Others		
MTBF	≥515.4Khrs MIL-HDBK-217F(25°C)	
Protection class	IP20	
Weight	~1kg	
Dimension	63*125.2*113.5mm	
Data	Description	Model
	MTR 240W 10A/24V	MTR240-24
	MTR 240W 5A/48V	MTR240-48



### Derating Curve



**Note:** 1. It should be derating output if the input voltage is lower, please refer to Derating Curve for details.

2. Ripple & noise are measured at 20MHz of bandwidth by using a "12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

3. Tolerance: includes set up tolerance, line regulation and load regulation.

4. All parameters are measured at 400VAC input, rated load, 25°C of ambient temperature if not specially mentioned,

5. Installation clearances: 40mm on top, 20mm on bottom and 5mm on left and right are recommended if operating in permanently full load.

6. The ambient temperature derating of 3.5°C/1000m with non-fan models and of 5°C/1000m with fan models for operating in altitude higher than 2000m (6500ft)