

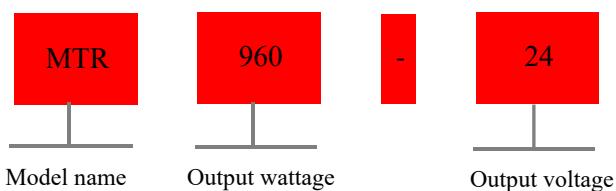
MTR960-□ Series



▲ Features

Three-Phase 340-550VAC wide range input
(Dual phase operation possible)
Width only 110mm
Built-in active PFC function compliance to BS EN/EN61000-3-2
High efficiency 94.5% and low power dissipation
Protections: Short circuit/Overload/Over voltage/Over temperature
Cooling by free air convection
Built-in constant current limiting circuit
Current sharing up to 3840W(3+1)
can be installed on DIN rail TS-35/7.5 or 15
Built DC OK relay contact
100% full load burn-in contact
3 years warranty

▲ Model Encoding

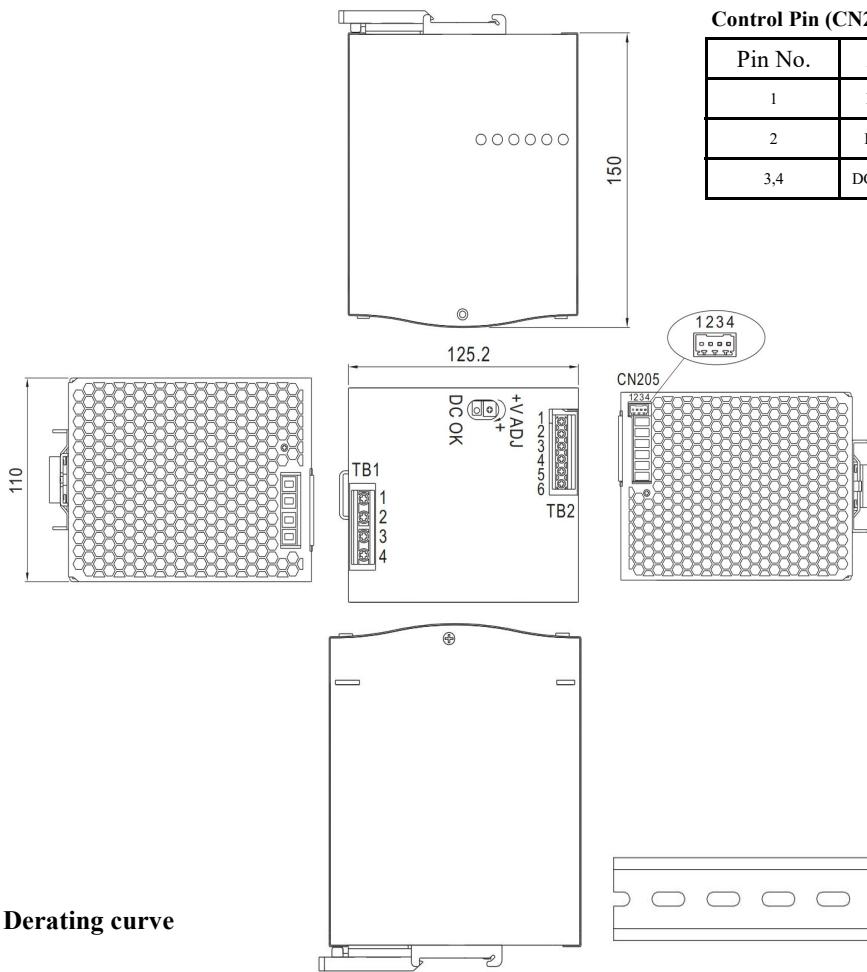


Specification

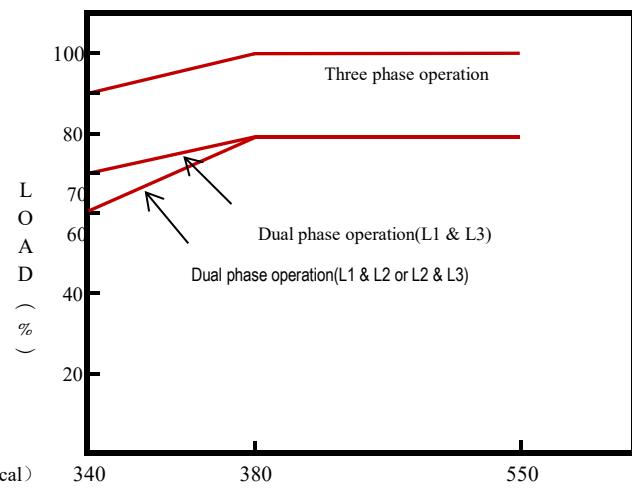
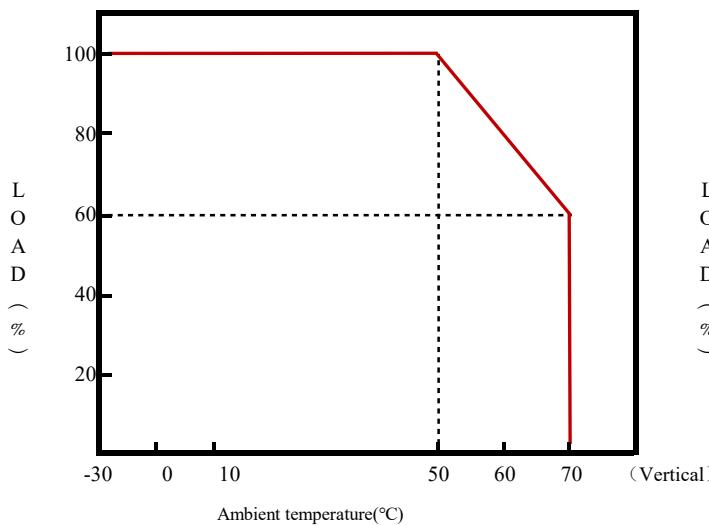
Input					
Voltage range Note.1	Three-Phase 340 ~ 550VAC (Dual phase operation possible) 480 ~ 780VDC				
Leakage current	<3.5mA / 530VAC				
Frequency range	47-63Hz				
Inrush current (Typ.)	Cold start :60A				
Power factor(Typ.)	PF≥ 0.88/400VAC PF≥ 0.86/500VAC at full load				
AC Current(Typ.)	2A/400VAC 1.4A/500VAC				
Output					
DC voltage (V)	24V	48V			
Efficiency(TYP.)	94%	94.5%			
Rated Current (A)	40A	20A			
Current range(A)	0-40A	0-20A			
Rated power(W)	960W	960W			
Ripple & noise(max) Note.2	180mVp-p	250mVp-p			
Voltage ADJ.range	24-28V	48-55V			
Voltage tolerange Note.3	±1%	±1%			
Line regulation	±0.5%	±0.5%			
Load regulation	±1%	±1%			
Setup, rise time	1000ms 100ms/400VAC 800ms 100ms/500VAC(at full load)				
Hold up time(Typ.)	12ms/400VAC 14ms/500VAC(at full load)				
Status indicator	Green LED				
Protection					
Overload	105 ~ 130% rated output power Protection type : Constant current limiting, unit will shut down after 3 sec. ,re-power on to recover				
Over voltage(V)	29 ~ 33V	56 ~ 65V			
	Protection type : Shut down o/p voltage, re-power on to recover				
Over temperature	Shut down o/p voltage, recovers automatically after temperature goes down				
DC OK Realy contact ratings(max.)	60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load				
Current sharing	Please refer to function manual				
Safety and EMC					
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC 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	Design reference EN IEC 62368-1、GB4943. 1				
EMC emission	Parameter	Standard	Test Level / Note		
	Conducted	EN 55032	Class B		
	Radiated	EN 55032	Class B		
	Voltage Flicker	EN 61000-3-3	设计参考 Class A		
	Harmonic Current	EN IEC 61000-3-2	Class A		
EMC immunity	Parameter	Standard	Test Level / Note		
	ESD	EN 61000-4-2	Level 4 15KV air;Level 4 8KV contact		
	Radiated Susceptibility	EN 61000-4-3	Level 3 10V/m		
	EFT/Burst	EN 61000-4-4	Level 3 2KV/5KHZ		
	Surge	EN 61000-4-5	Level 3 2KV/Line-Line;Level3 4kV/Line-Line-FG		
	Conducted	EN 61000-4-6	Level 3 10V		
	Magnetic Field	EN 61000-4-8	Level 4 30A/m		
	Voltage Dips and interruptions	EN 61000-4-11	<5% residual voltage for 0.5 cycles ,70% residual voltage for 25 cycles , <5% residual voltage for 250 cycles		

Environmental		
Working temperature Note.5	- 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.coefficient	±0.03%/°C (0～50°C)	
Vibration	Component:10～500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
Others		
Mean time between failure	647.1K hrs min MIL-HDBK-217F(25°C)	
Installation	Install on DIN rail TS35	
Weight	About 2.47kg	
Length*width*height	110*125.2*150mm	
Data	Details	Model name
	MTR 960W 40A/24V	MTR960-24
	MTR 960W 20A/48V	MTR960-48

Installation Instruction



Derating curve



1.Dual phase operation is allowed under certain derating to output load.

Please refer to derating curves for details.

Note: 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 NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

5.Installation clearances:40mm on top,20mm on the bottom,5mm on the left and right side are recommended when loaded permanently with full power.

In case the adjacent device is a heat source,15mm clearance is recommended.

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