

M5R240□ Series



▲ Features

Three-Phase 340-550VAC wide range input

(Dual phase operation possible)

63mm slim width

Built-in passive PFC function compliance to BS EN/EN61000-3-2

High efficiency 92% and low power dissipation

Protections:Short circuit/Overload/Over voltage/Over temperature

Cooling by free air convection

Built-in constant current limiting circuit

can be installed on DIN rail TS-35/7.5 or 15

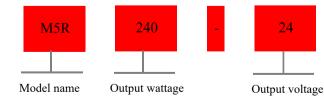
DC OK relay contact

3 years warranty

▲ Applications

Industrial control system Factory automation Electro-mechanical apparatus Semiconductor fabrication equipment

▲ Model Encoding



Mibbo

Specification					
Input		1.1 2 91.1			
Voltage range Note.1		Three-Phase 340 ~ 550VAC (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG) or 480 ~ 780VDC			
Leakage current	<2mA / 530VAC				
Frequency range	47-63Hz				
Inrush current (Typ.)	Cold start :50A				
Power factor(Typ.)	$PF \ge 0.53/400 VAC PF \ge 0.52/500 VAC$ at full load				
AC Current(Typ.)	0.69A/400VAC 0.6A/500VAC				
Output					
DC voltage (V)	24V			48V	
Efficiency(TYP.)	92%			92%	
Rated Current (A)	10A			5A	
Current range(A)	0-10A		0-5A		
Rated power(W)	240W		240W		
Ripple & noise(max) Note.2	100mVp-p		120mVp-p		
Voltage ADJ.range	24-28V		48-55V		
Voltage tolerange Note.3	±1%			$\pm 1\%$	
Line regulation	±0.5%		$\pm 0.5\%$		
Load regulation	±1% ±1%				
Setup, rise time	2000ms 60ms/400VAC 1500ms 60ms/500VAC(at full load)				
Hold up time(Typ.)	20ms/400VAC 40ms/500VAC(at full load)				
Status indicator	Green LED				
Protection					
Overload Over voltage(V)	$105 \sim 130\%$ rated output power				
	Protection type : Constant current limiting, unit will hiccup after 3 sec.				
	30 ~ 36V 56 ~ 65V				
	Protection type : Hiccup mode, recovers automatically after fault condition is removed.				
Over temperature	Shut down o/p voltage, recovers automatically after temperature goes down				
DC OK Realy Contact Ratings (max.)	60VDC/0.3A, 30VDC/1A, 30VA	C/0.5A resistive load			
Safety and EMC					
Withstand voltage	I/P-O/P:4.87KVAC I/P-FG:2.4KV	VAC 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	Parameter Standard		Test Level / Note	
	Conducted	EN 55032		Class B	
	Radiated	EN 55032		Class B	
	Harmonic Current	EN 61000-3-3		Design reference Class A	
	Voltage Flicker	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 Field	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 "Deratin	ng curve ")			
Storage TEMP.humidity	$-40 \sim +85^{\circ}$ C 10 ~ 95% RH non-condensing				
Working humidity		$20 \sim 95\%$ RH non-condensing			
TEMP.coefficient	-	±0.05%/°C (0 ~ 60°C)			
Vibration		Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
		5000 meters			
Operating Altitude	5000 meters				
Others	1/24 0/21	175(2500)			
Mean time between failure	1534.9K hrs min MIL-HDBK-217F(25°C)				
Installation	Install on DIN rail TS35				
Weight	About 1kg				
Length*width*height	63*125.2*113.5mm	63*125.2*113.5mm			
Data	Details Model name			me	
	M5R 240W 10A/24V M5R240-24				
	M5R 240W 5A/48V M5R240-48				



