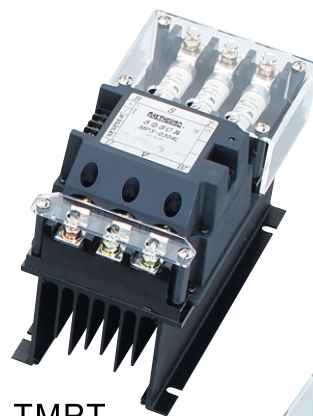




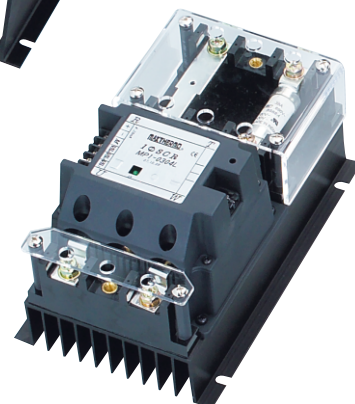
MPT under 120A



MS 30A



TMPT



TMPS 30A

■ 特色 (Features):

- 小型設計節省空間
Small : size, takes small space
- 解析度高, 反應快能有效維持恆溫
High accuracy and fast response, be able to keep steady temperature very well.
- 採用 P.W.M. 設計, 確保良好線性控制
P.W.M. system provides very good linear control.
- 採用耐高壓晶片, 壽命長, 且無機械磨損
High voltage rating contactless and long product life.
- 無機械動作, 安靜無噪音
Non-mechanic motion, no noise.
- 附加安全蓋, 無處電之虞
With isolation cover, preventing from electric shock.
- 輸出端壓降低, 功率耗損少
Low voltage drop, low power lose.
- 零位相位控制供客戶選擇, 可適應各種環境使用
Both phase control and zero cross control are available.
- 內藏式自動/手動切換開關, 使用便利
With auto/manu. switch, convenient for user.

■ 用途 (Applications):

- 電器爐, 乾燥機測試設備等之溫度控制
Electric fumace, dryer, test chamber and thermal control system.
- 紅外線及紫外線的溫度控制
Infrared and ultraviolet temperature control.
- 照明設備, 電源供應器, 變壓器等控制
Illumination, power supply, transformer.
- DC馬達, 智慧型馬達控制
DC motor control, smart motor control.

■ 形式說明 (Model Naming):

PROPORTIONAL TYPE INPUT: 4~20mA or 1~5VDC		ON-OFF TYPE INPUT: DC 12~32V	
MPS 050 2		MS-3 050 S	
控制方式 Control Type MP: 相位控制 Phase Control MO: 零位控制 Time Base Control (Zero Voltage Cross)	使用電壓 Load Voltage 1: 110V 3: 380V 2: 220V 4: 440V	相位 Phase Type 1: 單相 Single Phase 2: 三相二極 Three Phase Two Pole 3: 三相三極 Three Phase Three Pole	使用電壓 Load Voltage L: 220V H: 40V
相式 Phase Type S: 單相 Single Phase T: 三相 Three Phase	負載通電電流 Load Current Rating 020:20A 100:100A 030:30A 160:160A 050:50A 200:200A 070:70A 300:300A		負載通電電流 Load Current Rating 030:30A 050:50A 070:70A 100:100A 120:120A 160:160A 200:200A 250:250A 300:300A

※ each unit with heat sink

MPT																						
Model	0202	0204	0302	0304	0502	0504	0702	0704	0802	0804	1002	1004	1202	1204	1602	1604	2002	2004	2502	2504	3002	3004
Load Current Rating	20A	30A	50A	70A	80A	100A	120A	160A	200A	250A	300A											
Load Voltage (V)	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500	150 ~260	240 ~500
L X W X H (mm) (Include heat sink)	283 X 126 X 115				318 X 126 X 170				330 X 140 X 200				468 X 140 X 200				648 X 190 X 215					
Net Weight (g) (Include heat sink)	1900				4400				6600				9400				16500					
Auxiliary Power	AC 220V ±10%																					
Min Load Current	0.6A																					
Off State Leakage Current	15mA (Max)																					
Power Consumption	5W (Max)																					
Frequency Range	50Hz/60Hz (option)																					
Control Type	DCA (4~20mA)/DCV (0~5V/1~5V/0~10V)																					
Input Resistance	DCA (250Ω)/DCV (10KΩ)																					
Isolation Voltage	AC 2500V (1min input & output to ground)																					
Alarm	2.0A																					
Notation	3 Phase 3 Fuse																					

※ MPT : 1. It is best for using in IR heating, high speed heating and slightly light heating.
2. It is suitable for using in requirement of multi-protected connection.
3. Fuse is separated in all models. A fan is attached when SCR is 50A up.

Model	MP1									TMPS								
	0304L	0504L	0704L	1004L	1204L	1604	2004	2504	3004	0302L	0502L	0702L	1002L	1202L	1602	2002	2502	3002
Load Current Rating	30A	50A	70A	100A	120A	160A	200A	250A	300A	30A	50A	70A	100A	120A	160A	200A	250A	300A
Load Voltage (V)	4:100~500V									2:180~260V 4:330~500V								
L X W X H (mm) (Include heat sink)	202 X 126 X 115			202 X 126 X 170	237 X 126 X 170	330 X 140 X 200				202 X 126 X 115			202 X 126 X 170	237 X 126 X 170	330 X 140 X 200			
Net Weight (g) (Include heat sink)	1400			1500	3300	6775				1400			1500	3300	6775			
Auxiliary Power	NO																	
Min Load Current	0.6A																	
Off State Leakage Current	0.25mA under (R.C Filter)									8mA under (R.C Filter)								
Power Consumption	0.15W (Max)									3.2W (Max)								
Frequency Range	50Hz/60Hz ±5%																	
Control Type	DCA (4~20mA)									DCA (4~20mA)/DCV (0~5V/1~5V/2~10V/0~10V)								
Input Resistance	Over 20MΩ(power & external cover) Over 20MΩ(input signal & external cover)									DCA (250Ω)/DCV (4.7KΩ or 10KΩ)								
Isolation Voltage	AC 2000V (1min input & output to ground)																	
Alarm	No																	
Notation	Single phase 2poles																	

Economic Type S.C.R.

Model	TMPT									TMOT								
	0304L	0504L	0804L	1004L	1204L	1604	2004	2504	3004	0304L	0504L	0704L	1004L	1204L	1604	2004	2504	3004
Load Current Rating	30A	50A	80A	100A	120A	160A	200A	250A	300A	30A	50A	70A	100A	120A	160A	200A	250A	300A
Load Voltage (V)	4:100~500V																	
L X W X H (mm) (Include heat sink)	202 X 110 X 155	237 X 110 X 155	237 X 126 X 170	208 X 140 X 200		468 X 140 X 200		648 X 190 X 215		202 X 101 X 155		237 X 110 X 155	237 X 126 X 170	248 X 140 X 200	350 X 140 X 200		468 X 140 X 200	
Net Weight (g) (Include heat sink)	1800	2200	3475	5400		9400		16500		1800		2200	3475	5400	7000	9400		
Auxiliary Power	88~264V (50Hz/60Hz)																	
Min Load Current	0.6A																	
Off State Leakage Current	8mA(R.C Filter)																	
Power Consumption	3.2W (Max)																	
Frequency Range	50Hz/60Hz ±5%																	
Control Type	DCA (4~20mA, 0~20mA)/DCV (0~5V/1~5V/2~10V/0~10V)																	
Input Resistance	DCA (250Ω)/DCV (4.7Ω or 10KΩ)																	
Isolation Voltage	AC 2000V (1min input & output to ground)																	
Alarm	No									None / With (220 VAC / 0.1A open normally)								
Notation	TMPT : 3 Phase 3 Fuse. TMOT : 3 Phase 2 Fuse.																	

※ TMPT : 1. It is best for using in small size, low spread heating and general heating. 2. It is suitable for using in short time heating system.

MS1										
Model	050L	070L	080L	100L	120L	050H	070H	080H	100H	120H
Load Current Rating	50A	70A	80A	100A	120A	50A	70A	80A	100A	120A
Load Voltage (V)	100~260V					100~480V				
L X W X H (mm) (Include heat sink)	98.5 X 126 X 170			140 X 126 X 170		98.5 X 126 X 170			140 X 126 X 170	
Net Weight (g) (Include heat sink)	1500			2100		1500			2100	
DC working current	10mA (Min)					10mA (Min)				
Input Voltage (V)	DC 7~32V					DC 11~32V				
Off State Leakage Current	8mA (MAX)									
Frequency Range	50Hz/60Hz VAC									
Control Type	DC Control									
Isolation Voltage	AC 2500V (1min, input to ground)									
Alarm	No									
Response time	½ Cycle (max)									
Capacitance	0.4nF									
Notation	Single Phase									

MS-2/MS-3																			
Model	030L	030H	050L	050H	070L	070H	100L	100H	120L	120H	160L	160H	200L	200H	250L	250H	300L	300H	
Load Current Rating	30A		50A		70A		100A		120A		160A		200A		250A		300A		
Load Voltage (V)	100~260V	100~480V	100~260V	100~480V	100~260V	100~480V	100~260V	100~480V	100~260V	100~480V	100~260V	100~480V	100~260V	100~480V	100~260V	100~480V	100~260V	100~480V	
Control Type (V)	DC 7~32V	DC 11~32V	DC 7~32V	DC 11~32V	DC 7~32V	DC 11~32V	DC 7~32V	DC 11~32V	DC 7~32V	DC 11~32V	DC 7~32V	DC 11~32V	DC 7~32V	DC 11~32V	DC 7~32V	DC 11~32V	DC 7~32V	DC 11~32V	
Input Resistance (Ω)	450	600	450	600	450	600	450	600	450	600	450	600	450	600	450	600	450	600	
L X W X H (mm) (Include heat sink)	MS-2	98.5 X 126 X 170				175 X 126 X 170		208 X 140 X 200				350 X 140 X 200				468 X 140 X 200			
	MS-3	98.5 X 126 X 170		133 X 126 X 170		208 X 140 X 200				468 X 140 X 200				648 X 190 X 215					
Net Weight (g) (Include heat sink)	1500		1900		2400		4800		4800		7000		9400		9400		14800		
Min Load Current	0.6A																		
Off State Leakage Current	8mA under (R.C Filter)																		
DC working current	DCA 10mA (min)																		
Frequency Range	50Hz/60Hz																		
Isolation Voltage	MS-2/MS-3 : AC 2000V (1 min, input & output to ground)																		
Alarm	No																		
Notation	MS-2 : 3 Phase 2 Poles / MS-3 : 3 Phase 2 Poles																		