



SSRMP Series

"Mini Puck" Solid State Relay

c¶us File E29244 C€

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Features

- Standard "mini puck" package.
- LED indicator.
- Triac outputs.
- 10A, 16A & 25A rms versions.
- DC input version.240 & 480 Vac Line voltage.
- 4000V rms isolation.
- Quick connect style terminals.
- Panel mountable.

Engineering Data

Form: 1 Form A (SPST-NO). Duty: Continuous. Isolation: 4000V rms minimum, input - output. Temperature Range: Storage: -30°C to +100°C Operating Temperature: -30°C to + 80°C Case Material: Plastic, UL rated 94V-1. Case and Mounting: Refer to outline dimension. Termination: Refer to outline dimension. Approximate Weight: 0.65 oz. (18.3g).

Ordering Information

	Typical Part Number	SSRMP	-240	D	10	R
1. Basic Series: SSRMP = "mini puck" triac output solid state reply						
2. Line Voltage: 240 = 24 - 280 VAC 480 = 48 - 480 VAC						
3. Input Type & Voltage: D = 4 - 32 VDC constant current				-		
4. Maximum Switchin Rating: $10 = 10$ A rms, mounted to heatsink $16 = 16$ A rms, mounted to heatsink $25 = 25$ A rms, mounted to heatsink						
5. Options: Blank = Zero voltage turn-on R = Random volage turn-on						

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

SSRMP-240D10	SSRMP-480D10
SSRMP-240D10R	SSRMP-480D10R
SSRMP-240D25	SSRMP-480D25
SSRMP-240D25R	SSRMP-480D25R

Input Specifications

1

Parameter	Units	DC Input
Control Voltage Range VIN	VDC	4 - 32
Must Operate Voltage VIN(OP) (Min.)	VDC	4
Must release Voltage VIN(REL) (Min.)	VDC	1
Input Current (Max.)	mA	1 - 20

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

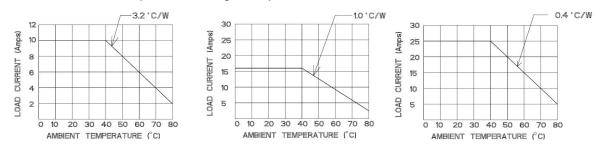


SSRMP Series (Continued)

Output Specification (@ 25°C, unless otherwise specified)

Parameter	Nom. Line Voltage	Conditions	Units	10A Models	16A Models	25A Models	
Load Voltage Range $V_{\scriptscriptstyle L}$	240		Vrms	24-280			
	480		Vrms	48-480			
Load Current Range I _L *	240 & 480	Resistive	А	10	16	25	
Single Cycle Surge Current			А	100	160	208	
Leakage Current (Off-State) (@rated voltage)		f=60Hz. V _L =Nom	mA	5			
On-State Voltage Drop (@rated current)		$I_1 = Max.$	Vrms	1.6 400 475			
Static dv/dt (Off-State) (Min.)			V/µs				
Repetitive Peak Off-State Voltage	240		Vrms	600			
	480			800			
I ² T Rating	100		A ² Sec	55	144	259	
Zero Turn-On Voltage			Vpk	15			
Thermal Resistance, Junction to case (R _{QJ-C}) (Max.)	-		°C/W	2.4	2.1	2	
Turn -On Time (Max.)	240 & 480	240 & 480 f= 60/ 50 Hz.	ms	10 for Zero Voltage Turn-On			
	-			0.1 for Random Voltage Turn-On			
Turn -Off Time (Max.)				10 for Zero Voltage Turn-On			
				8.3/10 for Random Voltage Turn-On			

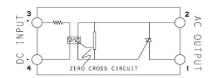
Electrical Characteristics (Thermal Derating Curves)



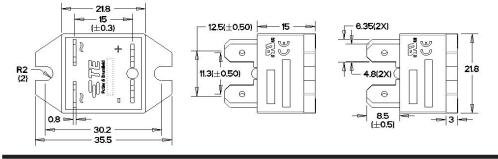
Heatsink Recommendations

- We recommend that solid state relay modules be mounted to a heatsink sufficient to maintain the module's base temperature at 85°C under worst case ambient temperature and load conditions.
- The heatsink mounting surface should be a smooth (30-40 micro-inch finish), flat (30-40 micro-inch flatness across mating area), un-painted surface which is clean and free of oxidation.
- An even coating of thermal compound (Dow Corning DC340 or equivalent) should be applied to both the heatsink and module mounting surfaces and spread to a uniform depth of .002" to eliminate all air pockets.

Operating Diagrams



Outline Dimensions



05-2020, Rev. 0520 www.te.com © 2015 Tyco Electronics Corporation, a TE Connectivity Ltd. company Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 2

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Solid State Relays - Industrial Mount category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below :

D2440-C H10CA4890 D4875C 1395831-1 1616010-6 BR312BY A-1326 H10CA4850 H12CA4890VL RA2410-D06 RA2410HA06T D1202F D53TP50-10 W230E-1-12 W230T-3-12 1-1617030-3 1-1617033-7 MS2-D2420 MS2-D2430 A-1440 RJ1P60V50E HS501DR-D2425 RN1F48I50 70.362.1028.0 7-1393030-8 Z5.509.0828.0 G3DZ-4B DC24 G3DZ-F4B DC12 2912138 SSRDAC10 SSR-10048RD1 RV8S-L-A240-D24 RV8S-L-A240-D6 RV8S-S-A240-D24 RV8S-S-A240-D6 RV8S-S-A240Z-D24 RV8S-S-D24-A240 RV8S-S-D48-A120 RN1F12V50 RJ1P60I30E RJ1P60V30E SO967860 SMT8628521 SO869970 SOD867180 SAL961360 SO867970 SOB863860 SOB867640 SOB942360