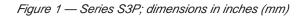
TELEDYNE RELAYS

A Unit of Teledyne Electronics and Communications

NEW Series S3P

Three-Phase Output to 10A 440 Vac Cage Clamp Connectors

Part Number		Description	on				
S3P44D10		10A, 440 V	Vac				
S3P44R10		10A, 440 V	Vac				
Part Number Explanation							
S3P	44	D	10				
Series	S	witch Typ	e ²				
Line Voltage ¹ Output Current - Amps							
NOTES 1) Line Voltage (maximum): 44 = 440 Vac 2) Switch Type: D = Zero-cross turn-on; R = Random turn-on MECHANICAL SPECIFICATION							
0.77 ±0.07 (19.6 ± 0.2)	(5.1 ±0.1)	1.4 +0.007 (35.6 +0.2) 4 (10.3) 4 (10.3) 2 3 4 (10.3)	.35 (8.9) (10) (10) (10) (10) (10) (10) (10) (10	Plugs			



INPUT (CONTROL) SPECIFICATION

	Min	Max	Units
Control Range	4	30	Vdc
Input Current Range	3	90	mA
Must Turn-Off Voltage		0.8	V
Input Resistance (Typical)		330	Ohms
Reverse Voltage		30	V



FEATURES/BENEFITS

- · Industry-standard hockey-puck package
- Spring connectors
- Three relays in a single package
- · Zero-cross and random turn-on options
- Common control for all three relays

DESCRIPTION

The Series S3P relays are made up of three separate relays controlled by a common DC voltage control. They are designed to control 10A AC loads such as resistors and small motors on a mains from 12 to 440 Vac, either single- or three-phase. They are well suited for applications requiring compact size and low cost.

APPLICATIONS

- Heaters
- Motors
- Lighting

APPROVALS

UL is pending.

BLOCK DIAGRAM

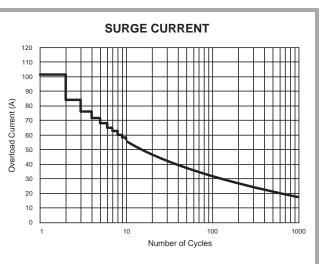


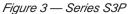
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Series S3P

OUTPUT (LOAD) SPECIFICATION

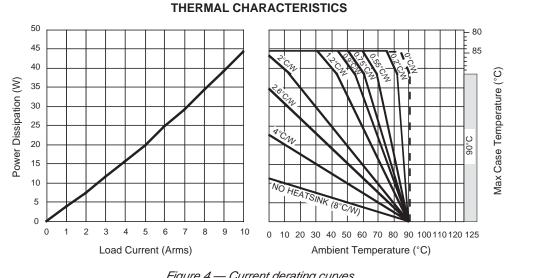
	Min	Мах	Unit
Operating Range	12	440	Vrms
Peak Voltage		850	Vpeak
Load Current Range	.05	10	Arms
Maximum Surge Current Ra			
(Non-Repetitive)		120	Apeak
On-State Voltage Drop		1.6	V
Synchronizing Level			
S3P44D10		±10	V
Off-State Leakage Current		0.3	mArms
Turn-On Time			
S3P44R10		0.1	ms
S3P44D10		8.3	ms
Turn-Off Time		8.3	ms
Off-State dv/dt		500	V/µs
Maximum di/dt (Non-Repetitive)		20	A/µs
Operating Frequency	10	440	Hz
I ² t for Match Fusing (<8.3m	72	A ² S	
Junction-Case Thermal Resistance		2.1	°C/W
Junction-Ambient Thermal Resistance		11.2	°C/W





ENVIRONMENTAL SPECIFICATION

	Min	Max	Unit
Operating Temperature	-40	100	°C
Storage Temperature	-40	100	°C
Input-Output Isolation	4000		Vrms
Output-Case Isolation	2500		Vrms





NOTES:

- 1. Electrical specifications at 25°C unless otherwise specified. 2. An external MOV is recommended for transient voltage
- protection.
- 3. For additional/custom options, contact factory.