

CRYDOM

Control over power

Series EZ

5-18Amp • 120/240, 480 Vac • AC Output

- Low Leakage
- Quick Connect Terminals
- SCR Output
- 24V Control Available (EZE Models)

The Series EZ SPST-NO AC output relays offer a low profile package with the convenience of quick con-

nect terminals. The Series EZ is the preferred choice for replacement of 120V and 240V Electro-mechanical relays. Output consists of an SCR switch and is available in Zero-Cross and Random Turn-On (Phase Controlable) versions.

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

MODEL NUMBERS	AC CONTROL (120Vac) (24Vac)		EZ240A12 EZE240A12	EZ240A18 EZE240A18	EZ480A12 EZE480A12	EZ480A18 EZE480A18
	DC CONTROL (5Vdc) (24Vdc)	EZ240D5	EZ240D12 EZE240D12	EZ240D18 EZE240D18	EZ480D12 EZE480D12	EZ480D18 EZE480D18
OUTPUT SPECIFICATIONS ①						
Operating Voltage (47-63 Hz) [Vrms]		24-280	24-280	24-280	48-660	48-660
Max. Load Current ④ [Arms]		5	12	18	12	18
Min. Load Current, [mArms]		150	150	150	150	150
Transient Overvoltage [Vpk]		600	600	600	1200	1200
Max. Surge Current, (16.6ms) [Apk]		40	150	200	150	200
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.5	1.5	1.5	1.5	1.5
Thermal Resistance Junction to Case (R _{θJC}) [°C/W]		2.0	2.0	1.1	2.0	1.1
Maximum I ² t for Fusing, (8.3 msec.) [A ² sec]		95	95	170	95	170
Max. Off-State Leakage Current @ Rated Voltage [mArms] ⑤		0.1	0.1	0.1	0.1	0.1
Min. Off-State dv/dt @ Max. Rated Voltage [V/ μsec] ②		500	500	500	500	500
Max. Turn-On Time ⑥		1/2 Cycle (DC Input), 10.0 msec (AC Input)				
Max. Turn-Off Time		1/2 Cycle (DC Input), 40.0 msec (AC Input)				
Power Factor (Min.) with Max. Load		0.5	0.5	0.5	0.5	0.5

INPUT SPECIFICATIONS ①		DC CONTROL			AC CONTROL		
	Nominal Voltage	5Vdc	5Vdc	5Vdc	24Vdc	120Vac	24Vac
MODEL NUMBERS					EZE240D12	EZE240A12	EZE240A12
					EZE240D18	EZE240A18	EZE240A18
					EZE480D12	EZE480A12	EZE480A12
	EZ240D05	EZE240D12	EZE480D12	EZE480D18	EZE480D18	EZE480A18	EZE480A18
Control Voltage Range	4-15 Vdc	3-15 Vdc	4-15 Vdc	15-32 Vdc	90-140 Vrms	18-36 Vrms	
Max. Turn-On Voltage	4.0 Vdc	3.0 Vdc	4.0 Vdc	15.0 Vdc	90.0 Vrms	18.0 Vrms	
Min. Turn-Off Voltage	1.0 Vdc	1.0 Vdc	1.0 Vdc	1.0 Vdc	10.0 Vrms	2.0 Vrms	
Nominal Input Impedance	300 Ohms	300 Ohms	240 Ohms	1500 Ohms	10.6k Ohms	1.8k Ohms	
Typical Input Current @ Nominal Voltage	13 mA _{dc}	15 mA _{dc}	15 mA _{dc}	15 mA _{dc}	10 mA _{rms}	10 mA _{rms}	

GENERAL NOTES

- ① All parameters at 25° C unless otherwise specified.
- ② Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ③ 240V, DC control models only, all others 2500Vrms.
- ④ Heat sinking required, for derating curves see page 2.
- ⑤ Off-State leakage for snubbed version (suffix S) is 10.0 mArms.
- ⑥ Turn-on time for random turn-on versions is 0.1 msec (DC Control Models).

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