



Control over power

Series EZ

12-18Amp • 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 9002 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)	EZ240D12 EZE240D12	EZ240D18 EZE240D18	EZ480D12 EZE480D12	EZ480D18 EZE480D18
OUTPUT SPECIFICATIONS ①					
Operating Voltage (47-63 Hz) [Vrms]		24-280	24-280	48-660	48-660
Max. Load Current ④ [Arms]		12	18	12	18
Min. Load Current, [mArms]		150	150	150	150
Transient Overvoltage [Vpk]		600	600	1200	1200
Max. Surge Current, (16.6ms) [Apk]		150	200	150	200
Max. On-State Voltage Drop @ Rated Current [Vpk]		1.5	1.5	1.5	1.5
Thermal Resistance Junction to Case ($R_{\theta JC}$) [°C/W]		2.0	1.1	2.0	1.1
Maximum $I^2 t$ for Fusing, (8.3 msec.) [A ² sec]		95	170	95	170
Max. Off-State Leakage Current @ Rated Voltage [mArms] ⑤		0.1	0.1	0.1	0.1
Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ②		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

INPUT SPECIFICATIONS ①	DC CONTROL			AC CONTROL	
	Nominal Voltage	5Vdc	24Vdc	120Vac	24Vac
MODEL NUMBERS			EZE240D12 EZE240D18 EZE480D12 EZE480D18	EZ240A12 EZ240A18 EZ480A12 EZ480A18	EZE240A12 EZE240A18 EZE480A12 EZE480A18
		EZ240D12 EZE240D18	EZ480D12 EZE480D18		
Control Voltage Range		3-15 Vdc	4-15 Vdc	90-140 Vrms	18-36 Vrms
Max. Turn-On Voltage		3.0 Vdc	4.0 Vdc	90.0 Vrms	18.0 Vrms
Min. Turn-Off Voltage		1.0 Vdc	1.0 Vdc	10.0 Vrms	2.0 Vrms
Nominal Input Impedance		300 Ohms	240 Ohms	10.6k Ohms	1.8k Ohms
Typical Input Current @ Nominal Voltage		15 mAdc	15 mAdc	10 mArms	10 mArms

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 snubbered version (suffix S) is 10.0 mArms.
- ⑥ Turn-on time for random turn-on versions is 0.1 msec (DC Control Models).

FastFax Document No.160
SERIES EZ.032698, PAGE 1 OF 2

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For recommended applications and more information contact:
USA: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619) 715-7280
 Crydom Corp, 9525 Chesapeake Drive, San Diego, CA 92123 • e-mail: sales@crydom.com
WEB SITE: <http://www.crydom.com> **FASTFAX Product Information:** (888) 267-9191
UK: (44)1202 812300 • fax (44)1202 812340 Crydom International Ltd., 85, Condor Close,
 Woolsbridge Industrial Estate, Three-Legged Cross, Wimborne, Dorset, England BH21 6SU
GERMANY: (49) (0)6874 182580 • fax (49)(0)6874 182585 Crydom GmbH,
 Gewerbegebiet Im Schachen, D-66687 Nunkirchen, Germany • e-mail: vertrieb@crydom.com



CRYDOM

Control over power

Series EZ

12-18Amp • 120/240, 480 Vac • AC Output

GENERAL SPECIFICATIONS

Dielectric Strength ③ 50/60Hz Input/Output/Base	4000 Vrms*
Insulation Resistance (Min.) @ 500 Vdc	10 ⁹ Ohm
Max. Capacitance Input/Output	8 pF
Ambient Operating Temperature Range	-40 to 80°C
Ambient Storage Temperature Range	-40 to 125°C

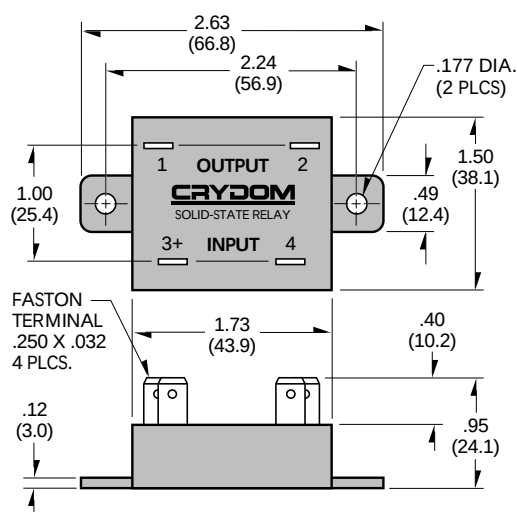
MECHANICAL SPECIFICATIONS

Weight: (typical)	1.5 oz. (43g)
Encapsulation:	Thermally Conductive Epoxy
Terminals:	.25 Inch Faston

AVAILABLE OPTIONS

- S** Internal Snubber
Example: **EZ240D12S**
- R** Random Turn-On Switching (240V Only)
Example: **EZ240D12R**, **EZ240D12RS**

*240V, DC Control Models Only.

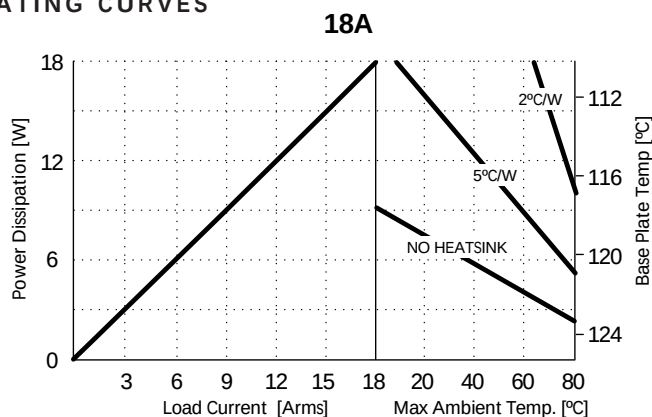
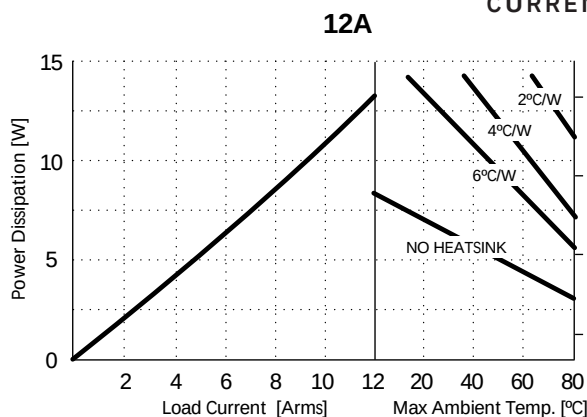


PIN 1: AC LOAD
PIN 2: AC LOAD
PIN 3: +DC CONTROL
PIN 4: -DC CONTROL

Crydom Heat Sinks offer excellent thermal management and are perfectly matched to the load current ratings of Crydom panel mount relays. Request Crydom's Heat Sink specification sheet for all the details.

All dimensions are in inches (millimeters)

CURRENT DERATING CURVES



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APPROVALS

UL E116950
CSA LR81689
VDE 10139 UG (240V DC Control Only)



FastFax Document No.160
SERIES EZ.032698, PAGE 2 OF 2

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