



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) | EZ240D05 | 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 | 24-280 | 48-660 | 48-660 |
| Max. Load Current ③ [Arms] | | 5 | 12 | 18 | 12 | 18 |
| Min. Load Current [mA rms] | | 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 ④ 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 ⑤ Rated Voltage [mA rms] | | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Min. Off-State dv/dt ⑥ Max. Rated Voltage [V/μsec] | | 500 | 500 | 500 | 500 | 500 |
| Max. Turn-On Time ⑦ | | 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 |

| MODEL NUMBERS | DC CONTROL | | AC CONTROL | | | | |
|---|-----------------|----------|----------------------|----------------------|--|--|--|
| | Nominal Voltage | 5Vdc | 5Vdc | 5Vdc | 24Vdc | 120Vac | 24Vac |
| | | EZ240D05 | EZ240D12 EZ240D18 | EZ480D12 EZ480D18 | EZ240D12 EZ240D18 EZ480D12 EZ480D18 | EZ240A12 EZ240A18 EZ480A12 EZ480A18 | EZE240A12 EZE240A18 EZE480A12 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 ⑧ Nominal Voltage | | 13 mA dc | 15 mA dc | 15 mA dc | 15 mA dc | 10 mA rms | 10 mA rms |



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CRYDOM

Control over power

Series EZ

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

GENERAL SPECIFICATIONS

| | |
|---|---------------------|
| Dielectric Strength @ 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 |

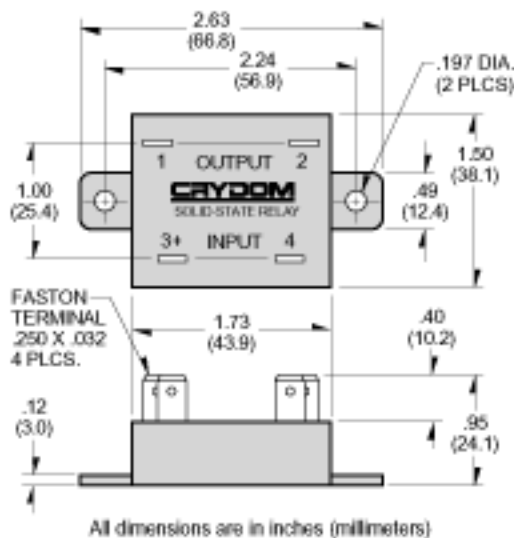
MECHANICAL SPECIFICATIONS

| | |
|-------------------|----------------------------|
| 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**
EZ240D5R

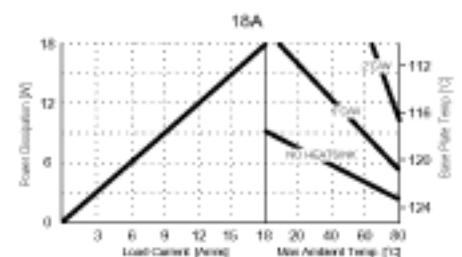
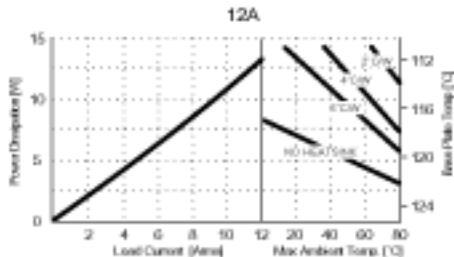
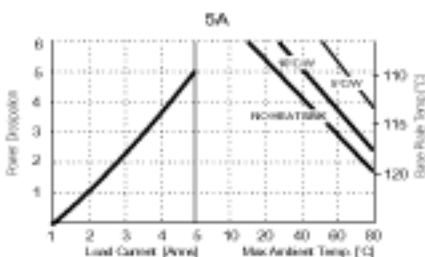
Crydom Heat Sinks offer excellent thermal management and are perfectly matched to the load current ratings of Crydom panel mount relays. Request Crydom's Heat Sink specification sheet for all the details.



*240V, DC Control Models Only.

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

CURRENT DERATING CURVES



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