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Series HPF

20, 30Amp • 120/240/480 Vac • AC Output

- DIN Rail Mount
- Integral Heat sink
- LED Status Indicator
- SCR Output
- Zero Voltage and Random Turn-On Switching
- Low Leakage

The Series HPF Solid State Relays utilize Crydom's proprietary thermal management technology providing a compact and efficient design. Built-in DIN Rail attachment, easy-to-use cage type terminals and integral heat sinking complete the package. This compact new design offers up to 30Arms in ambient temperatures of 25°C.

Manufactured in Crydom's ISO 9002 Certified facility for optimum product performance and reliability.

| MODEL NUMBERS | HPF240D20 | HPF240D30 | HPF480D20 | HPF480D30 |
|---|-----------|-----------|---------------------|---------------------|
| OUTPUT SPECIFICATIONS ① | | | | |
| Operating Voltage (47-63 Hz) [Vrms] | 12-280 | 12-280 | 48-660 ^⑥ | 48-660 ^⑥ |
| Max. Load Current [Arms] | 20 | 30 | 20 | 30 |
| Min. Load Current, [mArms] | 150 | 150 | 150 | 150 |
| Transient Overvoltage [Vpk] | 600 | 600 | 1200 | 1200 |
| Max. Surge Current, (16.6ms) [Apk] | 250 | 625 | 250 | 625 |
| Max. On-State Voltage Drop @ Rated Current [Vpk] | 1.6 | 1.4 | 1.6 | 1.4 |
| Maximum I ² t for Fusing, (8.3 msec.) [I ² sec] | 260 | 1620 | 260 | 1620 |
| Max. Off-State Leakage Current @ Rated Voltage [mArms] ② | 0.1 | 0.1 | 0.1 | 0.1 |
| Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ③ | 500 | 500 | 500 | 500 |
| Max. Turn-On Time ④ | 1/2 Cycle | 1/2 Cycle | 1/2 Cycle | 1/2 Cycle |
| Max. Turn-Off Time | 1/2 Cycle | 1/2 Cycle | 1/2 Cycle | 1/2 Cycle |
| Power Factor (Min.) with Max. Load | 0.5 | 0.5 | 0.5 | 0.5 |

INPUT SPECIFICATIONS ①

| | (HPF240Dxx) | DC CONTROL | (HPF480Dxx) |
|-------------------------------|-------------|------------|-------------|
| Control Voltage Range | 4-32 Vdc | | 4.5-32 Vdc |
| Max. Turn-On Voltage | 5.0 Vdc | | 5.0 Vdc |
| Min. Turn-Off Voltage | 1.0 Vdc | | 1.0 Vdc |
| Nominal Input Impedance | See Note ⑤ | | See Note ⑤ |
| Typical Input Current @ 5Vdc | 5 mAdc | | 5 mAdc |
| Typical Input Current @ 20Vdc | 20 mAdc | | 20 mAdc |

GENERAL NOTES

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- ① All parameters at 25°C unless otherwise specified.
- ② Off-State leakage for snubbered version (S suffix) is 10 mArms
- ③ Off-State dv/dt test method per EIA/NARM standard RS-443, paragraph 13.11.1
- ④ Turn-on time for random turn-on version is 0.02 msec.
- ⑤ Input circuitry incorporates active current limiter.
- ⑥ Operating voltage range for snubbered version (S-suffix) is 48-530 Vrms.

For recommended applications and more information contact:

USA: (800) 8 CRYDOM • (800) 827-9366 • (619) 715-7200 • fax (619) 715-7280
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

85, Condor Close, Woolsbridge Industrial Estate, Three-Legged Cross, Wimborne, Dorset, England BH21 6SU

GERMANY: (49)871 935405 • fax (49)871 935407, Aussere Parkstr.5, D-84032 Altdorf, Germany





Series HPF

20, 30Amp • 120/240/480 Vac • AC Output

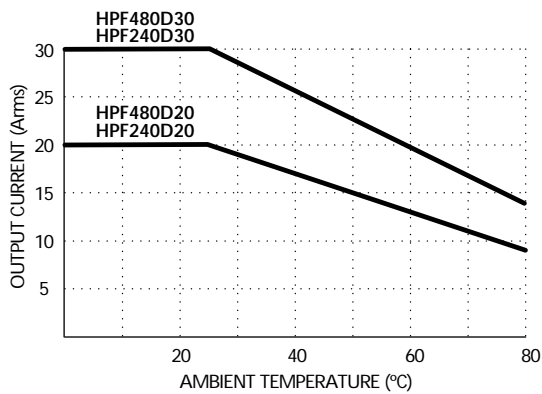
GENERAL SPECIFICATIONS

| | |
|---|---------------------|
| 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 |

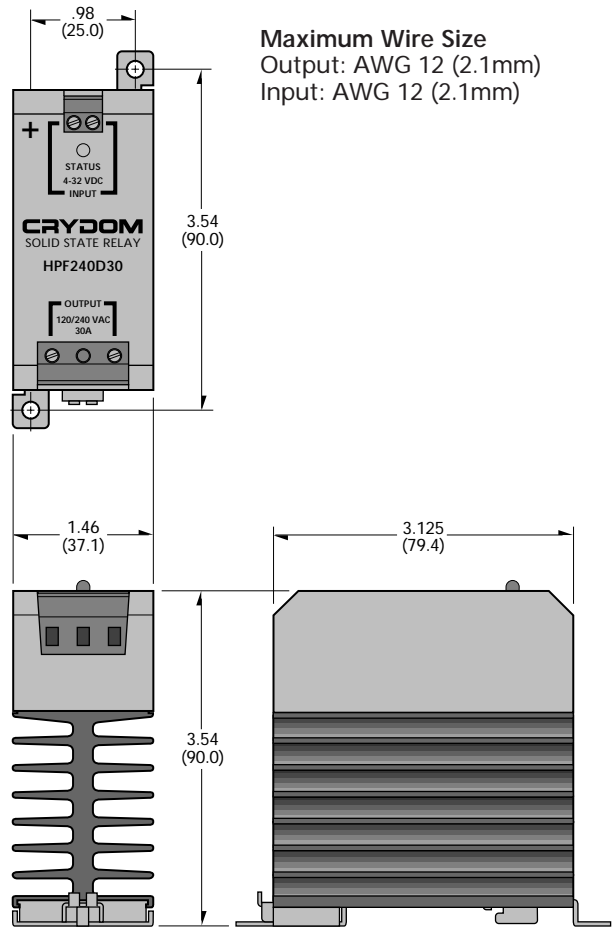
MECHANICAL SPECIFICATIONS

| | |
|--------------------|----------------------------|
| Weight: (typical) | 9.2 oz. (260g) |
| Encapsulation: | Thermally Conductive Epoxy |
| Terminals: | Cage Type, |
| Maximum Wire Size: | AWG 8 (3.3mm) |

CURRENT DERATING CURVES



HPF Max. Output Current vs. Temp.



All dimensions are in inches (millimeters)

AVAILABLE OPTIONS

- R** Random Turn-On
Example: **HPF480D30R**
- S** Internal Snubber
Example: **HPF240D20RS**

APPROVALS

PENDING

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