



Electronic Design & Research  
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Technology for people's ideas

EDR's iSSR relay/breaker provides multi level protection. It's useful for overload protection and the internal fast-action circuitry protects against harmful current surges.

### Input Specifications:

Power Supply	24VDC +/-5%
Nominal Current,	16mA
"OFF" Control Signal Vih	6V
"ON" Control Signal Vil	5V/1mA

### Output Specifications:

Alarm Signal	23V/4mA
Operating voltage AC or DC	0-200VDC/115VAC
Threshold turn-off current (RMS) (300mS)	8A +/- 10%
Surge protection turn-off current (5mmS)	110A +/-10%
Maximum "ON" - state resistance	.030 Ohm
Temperature protection -"OFF"	75° C
Rising time	5 µS
Delay-on time	6 µS
Falling time	2 µS
Delay-off time	10 µS
Maximum switching frequency	64 Hz
Frequency range	DC- 2 MHz

### General Specifications:

Ambient operating temperature range	0° C to 55° C
Storage temperature range	-40° C to 85° C
Dialectic Strength input-to-output	1500VDC

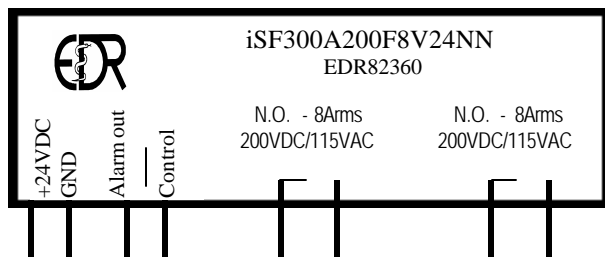
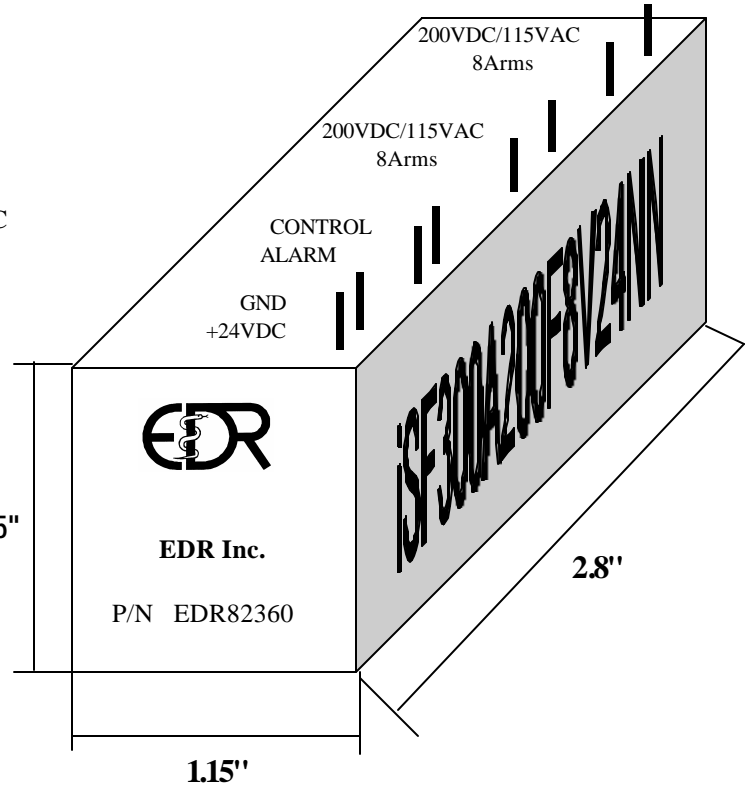
### Mechanical Specifications:

Encapsulation	ResTech 10207/053
Terminals -Solder	.040" diameter

# DPST relay - iSF300A200F8V24NN

Our current/thermal relay/circuit breaker is designed to protect circuitry in microseconds with high inrush currents and holds 200VDC, 125VAC @ 2,000,000Hz

**Features:** Electronically Resettable by cycling the control signal  
Overload Trip Current (TC) -- set at 8Arms.  
Trip Status/OFF output -- opto-isolator transistor output;  
Trip Delay --- .3 Sec after a current reached the TC  
Latched - Overcurrent and over-temperature  
Doubled power -- both output terminals can be paralleled  
Dielectric Strength - 1,500VDC output/output/input



EDR's iSSR - family of relay/circuit breakers is an alternative device for the replacement of the combination of a fuse and powerful relay. The iSSR makes it possible to withstand 110A temporary surges. There is no need to use an oversized fuse to withstand harmless current spikes. The iSSR can be rated close to a circuit's operating current. It provides fast-acting protection by turning off the power supply in microseconds to equipment containing surge sensitive components. The internal temperature compensation circuitry monitors the temperature of the MOSFET to insure a high threshold stability and turns the iSSR off if the temperature rises above 75° C. An iSSR is available with latching and non-latching configurations and with options of output terminals consisting of SPST, DPST or 3PST to control 3-phase.

Please contact us for your current, voltage, and package requirements. There is no set-up fee for orders of 4000 units or more. This includes pinout changes to current SSR's or undeveloped SSR's. We can also put your company name on our SSR.

Transient Protection: All loads are inductive, even ones that are not so obvious or labeled. An inductive load produces a harmful transient voltage, which is much higher than the applied voltage, when it is turned on and off. A SSR built with a MOSFET output acts as an ideal switch and can produce a seemingly "non-inductive" load, which can cause damage if not suppressed. A transient voltage suppressor, which is bi-directional for an AC applied voltage and unidirectional for a DC applied voltage, should be used to clamp excessive spikes.

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