



Electronic Design & Research
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Technology for people's ideas

FAST SWITCH

Series D3N Solid State Relay/Switch

15, 22 & 26Amp/75VDC and 12 & 18 Amp/52VAC Output






- * n-MOSFET Output
- * Low On-State Resistance
- * Paralleling Capability
- * Noiseless Operation
- * Voltage Drop Constant with Time
- * Sealed Housing and Weatherproof
- * High speed and low control current
- * No arcing or sparking - Explosive safe
- * Improved Reliability
- * Resistant to shock and vibration
- * Only 1.7" L x 1.15" H x 0.8" W

These solid state DC/AC output relays feature MOSFET technology for low on-state resistance, assuring easy paralleling and switching capabilities. Excellent in noise resistance and input-output separation our devices provide the opportunity to completely separate input/output ground loops and interface different voltage floors. They have no inherent wear-out mechanism and the constant resistance makes it the ultimate replacement choice of a mechanical type relay.

Below are few SSRs from our production line. If your requirement is unique we can produce the custom device you require.

OUTPUT SPECIFICATIONS

(We rated our SSR's for the maximum current without a heat sink.)

Model Number	D3N75D15	D3N75D22	D3N75D26	D3N75A12	D3N75A18
Part Number	EDR82367	EDR82371	EDR82372	EDR82373	EDR82374
					
Control voltage options (Vc)	12 VDC and 24 VDC				
Nominal Input Impedance	2 KOhm @ 24 VDC				
Operating Voltage Range	0 - 75 VDC			75 VDC p-p/52 VAC	
Load Current Range	0-15 A	0-22 A	0-26 A	0-12 A rms	0-18 A rms
Max. Surge Current, (10mSec)	500 A	800 A	1200 A	400 A	700 A
Max. On-state resistance (Rds-on)	0.007 Ohm	0.0028 Ohm	0.0021 Ohm	0.01 Ohm	0.012 Ohm
Max. Turn-On delay	6µS				
Rise time	0.5µS				
Turn-off delay	6µS				
Fall Time	0.7 µS				
Max. switching frequency	25 KHz				
Cost of each (24VDC input)	\$57.19	\$62.81	\$69.88	\$59.81	\$74.26

The test was performed with Vcc = 22VDC, 12mA & 1.0 KHz. The cost is at quantities of 100 ea.

Three control voltages available, 12VDC, 24VDC and 12-48VDC (add 10%)

Accessory DIN RAIL – p/n EDR82555 and EDR82558

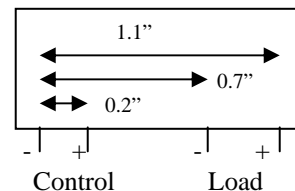
The EDR82555 and EDR82558 designed to accommodate D2N and D3N packa; and any industrial standard such as IAC, OAC, ODC, D2W, CX and CMX.

The EDR82558 comes with a de-bouncing circuitry, snubbing network and drivers for easy interfacing with a PLC or any other device with electromechanical relays on its output(s) and any other switches.



GENERAL Specifications

Dielectric Strength (input-output)	3000 VDC
Insulation Resistance (Min) @ 500VDC	10 ⁹ Ohm
Ambient Operating Temperature Range	- 30 to +40 ⁰ C (50% off at 80 ⁰ C)
Ambient Storage Temperature Range	-45 to +125 ⁰ C
Weight: (typical)	1.4 oz
Dimensions	1.15"H x 1.75" L x 0.8" W
Encapsulation:	Thermally Conductive Epoxy



Please call if you need application notes, helps with design, request for a quote or just wants to talk with us.

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