

Part Number	Description
DX6R3E-02	3A, 60 Vdc

Part Number Explanation

DX	6		R	3	3	Ε	-()2
					Con	 trol Ran	ge ⁴	
Series		Switch Type ²		Feature⁴				
Li	ine Vol	ltage¹	Outpo	ut Curi	rent –	Amps		

NOTES

- 1) Line Voltage (nominal) 6 = 60 Vdc
 2) Switch Type: R = Random turn-on
 3) Control Range: E = 5-30 Vdc (3-30 Vdc for DX6R3E-02);
 U = 90-240 Vac
- 4) Feature: 02 = With LED

MECHANICAL SPECIFICATION

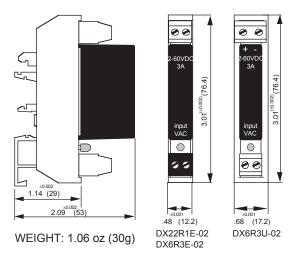


Figure 1 — DX relays, dimensions in inches (mm)

BLOCK DIAGRAM

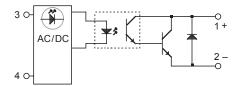


Figure 3 — DX relays





FEATURES/BENEFITS

- · New generation of solid-state relays for DIN rail mounting
- · Control visualization by LED
- AC/DC control
- · High immunity to surges

DESCRIPTION

The Series DX relays are designed for DIN-rail mounting. These solid-state relays include a control LED that provides visual control status. The tight zerocross window significantly reduces EMI. Its compact size and user friendly package make the Series DX relay an excellent choice for designers.

APPLICATIONS

- · Interface applications
- Vending machines
- Light/lamp control
- · Contactor driver
- · Fan speed control
- HVAC controls

TYPICAL APPLICATION

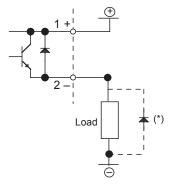
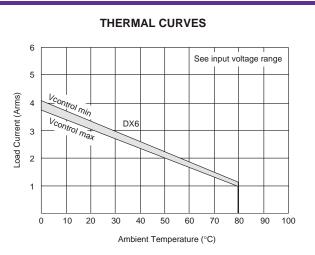


Figure 2 — DX relays





INPUT (CONTROL) SPECIFICATION						
	-	Max				
Control Range						
DX6R3E-02		30	Vdc			
DX6R3U-02						
			100,00			
Input Current Range						
DX6R3E-02	11	30	mA			
DX6R3U-02	2	5.7	mA			
Must Turn-Off Voltage						
DX6R3E-02	11		Vdc			
DX6R3U-02	15		Vac/dc			
Input Resistance (Typical)						
DX6R3E-02		600	Ohms			
DX6R3U-02		41,000	Ohms			
OUTPUT (LOAI	D) SPECII	FICATION				
	Min	Max	Units			
Operating Range	2	60	V			
Peak Voltage		60	V			
Load Current Range	.003	3	Α			
On-State Voltage Drop		1.6	V			
Maximum Surge Current Rating (Non-Repetitive)						
DX6R3E-02		-	•			
DX6R3U-02			•			
DX0R3U-02		10	Apeak			
Off-State Leakage Current	(60Hz)					
DX6R3E-02						
DX6R3U-02						
BACKOO 02		'				
Turn-On Time		0.2	ms			
Turn-Off Time		0.8	ms			
Off-State dv/dt	200		V/µs			
Switching Frequency		500	Hz			



ENVIRONMENTAL SPECIFICATION

	Min	Max	Units	
Operating Temperature	-40	80	°C	
Storage Temperature	-40	105	°C	
Input-Output Isolation	2500		Vrms	
Input-Output Capacity		8	рF	

- NOTES
 1) Electrical specifications at 25°C unless otherwise specified
 2) On inductive loads, a free-wheeling diode (or clamp) is recommended
 3) For additional/custom options, contact factory.

Mouser Electronics

Authorized Distributor

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Teledyne Relays:

DX6R3E-02