

Part Number	Description	
DX6R3E-02	3A, 60 Vdc	
DX6R3U-02	3A, 60 Vdc	

Part Number Explanation

DX	6	R	3	Е	-02
			Co	 ontrol Ran	ge⁴
Series		Switch Type ²	?		Feature⁴
Line Voltage ¹ Output Current – 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

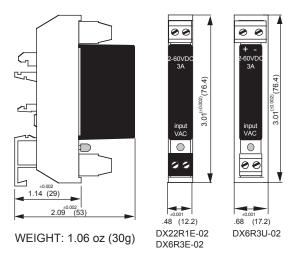


Figure 1 — DX relays, dimensions in inches (mm)

BLOCK DIAGRAM

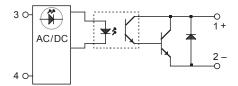


Figure 3 — DX relays





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

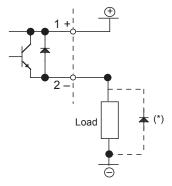
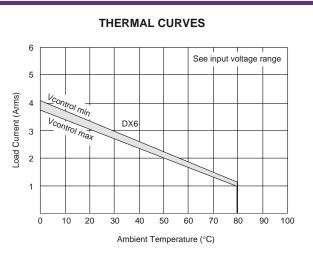


Figure 2 — DX relays





INPUT (CONTRO						
		Max	Units			
Control Range DX6R3E-02			Vdo			
DX6R3U-02	90	240	vac/dc			
Input Current Range						
DX6R3E-02	1	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						
DX6R3U-02		41,000	Ohms			
OUTPUT (LOA	U) SDECIE	EIC ATION				
		Max				
Operating Range						
Operating range		- 00	•			
Peak Voltage		60	V			
Load Current Range	.003	3	Α			
On-State Voltage Drop		1.6	V			
Maximum Surge Current F	Rating (Nor	n-Repetitive	e)			
DX6R3E-02		5	Apeak			
DX6R3U-02		10	Apeak			
Off-State Leakage Current	. ,					
DX6R3E-02		0.3	mA			
DX6R3U-02		1	mA			
Turn-On Time		0.2	ms			
T O# Time		0.0				
Turn-Off Time		0.8	ms			
Off State duildt	200		\//c			
Off-State dv/dt	200		v/µs			
Switching Frequency		500	Нz			
Owntorning Frequency		300	1 14			



ENVIRONMENTAL SPECIFICATION

	Min	Max	Units
Operating Temperature	-40	80	°C
Storage Temperature	-40	105	°C
Input-Output Isolation	2500		Vrms
Input-Output Capacity		8	pF
mpar carpar capacity			Ρ'

- 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.