

Part Number	Description
DX6R3E-02	3A, 60 Vdc

Part Number Explanation

DX	6	R	3	3	E	-02
				Control	l ≀ <i>Range</i> ⁴	1
Series		Switch	Type ²		Fe	eature4
Li	ne Vol	tage¹ C	utput Curi	rent – Ar	nps	

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

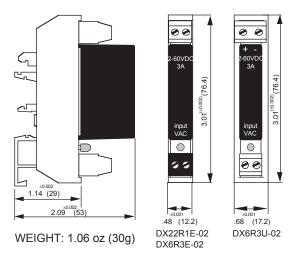


Figure 1 — DX relays, dimensions in inches (mm)

BLOCK DIAGRAM

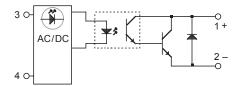


Figure 3 — DX relays





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

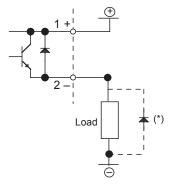
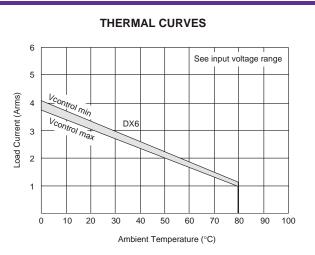


Figure 2 — DX relays





NPUT (CONTROL) SPECIFICATION Min Max Units						
Control Range DX6R3E-02 3 30 Vdc 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 1 Vdc DX6R3U-02 15 Vac/dc Input Resistance (Typical) Vdc						
DX6R3E-02 3 30 Vdc DX6R3U-02 90 240 Vac/dc Input Current Range 30 mA DX6R3E-02 1 30 mA DX6R3U-02 2 5.7 mA Must Turn-Off Voltage Vdc DX6R3E-02 1 Vdc DX6R3U-02 15 Vac/dc Input Resistance (Typical) Vdc						
DX6R3U-02 90 240 Vac/dc Input Current Range 30 mA DX6R3E-02 1 30 mA DX6R3U-02 2 5.7 mA Must Turn-Off Voltage Vdc Vdc DX6R3E-02 1 Vdc DX6R3U-02 15 Vac/dc Input Resistance (Typical) Vac/dc						
Input Current Range						
DX6R3E-02 1 30 mA DX6R3U-02 2 5.7 mA Must Turn-Off Voltage Vdc DX6R3E-02 1 Vdc DX6R3U-02 15 Vac/dc Input Resistance (Typical) 1 Vac/dc						
DX6R3U-02 2 5.7 mA Must Turn-Off Voltage						
DX6R3U-02 2 5.7 mA Must Turn-Off Voltage						
DX6R3E-02 1 Vdc DX6R3U-02 15 Vac/dc Input Resistance (Typical)						
DX6R3E-02 1 Vdc DX6R3U-02 15 Vac/dc Input Resistance (Typical)						
DX6R3E-02 1 Vdc DX6R3U-02 15 Vac/dc Input Resistance (Typical)						
Input Resistance (Typical)						
Input Resistance (Typical)						
DX6R3E-02 600 Ohms						
DX6R3U-02 41,000 Ohms						
OUTPUT (LOAD) SPECIFICATION						
Min Max Units						
Operating Range 2 60 V						
Peak Voltage 60 V						
Load Current Range .003 3 A						
On-State Voltage Drop 1.6 V						
Maximum Surge Current Rating (Non-Repetitive)						
DX6R3E-02 5 Apeak						
DX6R3U-02 10 Apeak						
Off-State Leakage Current (60Hz)						
DX6R3E-02 0.3 mA						
DX6R3U-02 1 mA						
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