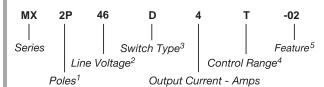




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Part Number	Description	
MX2P46D4T-02	4A, 460 Vac	
MX3P46D4S-02	4A, 460 Vac	

Part Number Explanation



NOTES

- 1) Poles: 2P = 2 pole; 3P = 3 pole
- 2) Line Voltage: 46 = 460 Vac
- 3) Switch Type: D = Zero-cross turn-on 4) Control Range: T = 15–40 Vdc; S = 12–35 Vdc
- 5) Options: 02 = With LED

MECHANICAL SPECIFICATION

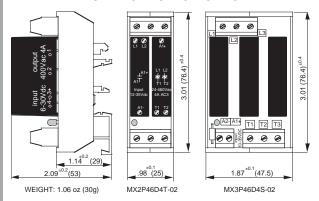


Figure 1 — MX relays; dimensions in inches (mm)

INPUT (CONTROL) SPECIFICATION

	IVIIN	wax	Units
Control Range			
MX2P46D4T-02	15	40	V
MX3P46D4S-02	12	35	V
Input Current Range			
MX2P46D4T-02	4.4	17	mΑ
MX3P46D4S-02	7.5	30	mA
Must Turn-Off Voltage			
MX2P46D4T-02		8	V
MX3P46D4S-02		6	V
Input Resistance (Typical)			
MX2P46D4T-02		2000	Ohms
MX3P46D4S-02		1000	Ohms





FEATURES/BENEFITS

- · New generation of solid-state relays for DIN-rail mounting
- Two- or three-pole output with single control
- · Tight zero-cross window for low EMI
- · Control visualization by LED
- · Integrated clamping voltage
- High immunity to surges

DESCRIPTION

The Series MX relays are a new generation of solidstate relays for DIN-rail fixation. The MX relays are internally wired to provide a common control. The relays are placed on a single DIN-rail fixture, saving designers time and space. The Series MX relays provide a control status LED and internal output protection.

APPLICATIONS

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

BLOCK DIAGRAM

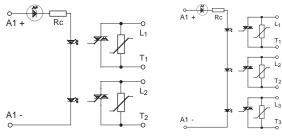


Figure 2a — MX2P relay

Figure 2b — MX3P relay

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CONTROL CHARACTERISTICS

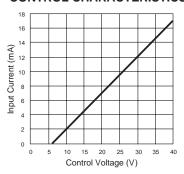


Figure 3a — MX2P relay

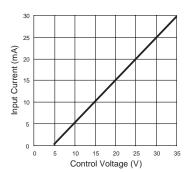


Figure 3b — MX3P relay

TYPICAL APPLICATIONS

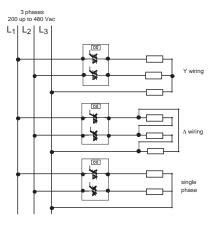


Figure 4a — MX2P relay

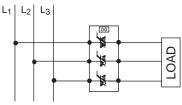


Figure 4b — MX3P relay

OUTPUT (LOAD) SPECIFICATION					
	Min	Max	Unit		
Operating Range	24	460	Vrms		
Peak Voltage		1200	V		
Load Current					
Range (Resistive)	.005	4	Arms		
Inductive Load Current		2.5	Arms		
Maximum Surge Current Rating (Non-Repetitive)					
(See Figure 5)		120	Α		
On-State Voltage Drop		1.6	V		
Zero-Cross Window		±12	V		
Off-State Leakage Curren	nt (60Hz)	0.3	mA		
Turn-On Time (60Hz)		8.3	ms		
Turn-Off Time (60Hz)		8.3	ms		
Off-State dv/dt		500	V/μs		
Operating Frequency	10	440	Hz		
I2t for match fusing (<8.3r	ns)	50	A ² S		

ENVIRONMENTAL SPECIFICATION

	Min	Max	Unit
Operating Temperature	-40	80	°C
Storage Temperature	-40	150	°C
Input-Output Isolation		4000	Vrms
Input-Output Capacity		3	рF

SURGE CURRENT

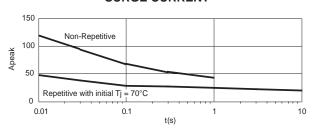


Figure 5 — MX relays

NOTES:

- 1. Electrical parameters at 25°C unless otherwise specified.
- 2. For 800Hz applications, contact factory.
- 3. For additional/custom options, contact factory.