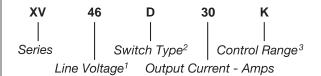


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Part Number	Description
XV46D30K	30A, 420 Vac

Part Number Explanation



NOTES

- 1) Line Voltage (nominal): 46 = 420 Vac
- 2) Switch Type: D = Zero-cross turn-on
- 3) Control Range: K = 20-30 Vdc, *C = 12 Vdc also available

MECHANICAL SPECIFICATION

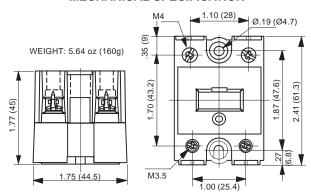


Figure 1 – XV relay; dimensions in inches (mm)

INPUT (CONTROL) SPECIFICATION

	Min	Max	Units
Control Range*	20	30	Vdc
Input Current Range	31	41	mAdc
Must Turn-Off Voltage		10	Vdc
Input Resistance (Typical)		640	Ohms
Reverse Voltage Protection		30	Vdc
Control Frequency		1	Hz

TYPICAL APPLICATION

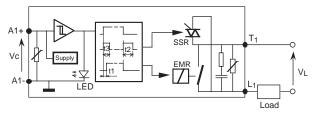


Figure 2 - XV relay



FEATURES/BENEFITS

- · Industry standard package
- Combines the best of solid-state and electromechanical relays
- Tight zero-cross window for low EMI
- Control LED
- · Internal output protection
- High immunity to surges

DESCRIPTION

The Series XV relay combines the best of solid-state and electromechanical technology. The relay is designed in a touch-proof hockey-puck package. The XV relay switches current up to 30A without a heat sink. Visual control status is provided as a standard. Elimination of the heat sink conserves space and makes the XV ideal for numerous applications.

APPLICATIONS

- · Interface applications
- Heating Control
- · Light/Lamp control
- Contactor driver
- · Fan speed control
- HVAC controls

APPROVALS

Model XV46D30K is UL recognized. UL File Number: E128555.

CONTROL CHARACTERISTIC

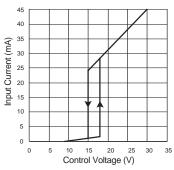


Figure 3 – XV relay

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OUTPUT (LOAD) SPECIFICATION					
Min	Max	Unit			
12	420	Vrms			
	800	Vpeak			
0.1	30	Arms			
	7.5	Arms			
Maximum Surge Current Rating (Non-Repetitive)					
240	Apeak				
	0.3	V			
Zero-Cross Window (Typical)		V			
Off-State Leakage Current (60Hz)		mA			
	12	ms			
	20	ms			
	500	V/µs			
Maximum di/dt (Non-repetitive)		A/µs			
40	440	Hz			
I ² t for fuse matching (<8.3ms)		A ² S			
	Min 12 0.1 Rating (Nor 240 ral) (60Hz)	Min Max 12 420 800 0.1 30 7.5 Cating (Non-Repetitive 240 Apeak 0.3 cal) ±12 (60Hz) 2 12 20 500 tive) 50 40 440			

ENVIRONMENTAL SPECIFICATION

	Min	Max	Unit
Operating Temperature	-40	90	°C
Storage Temperature	-40	100	°C
Input-Output Isolation		4000	Vrms
Output-Case Isolation		4000	V
Life Expectancy	See Figure 5		

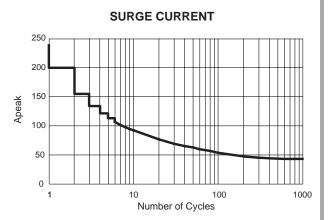


Figure 4 – XV relay

LIFETIME EXPECTANCY

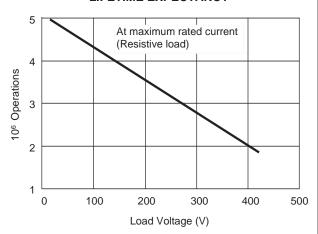


Figure 5 – XV relay

NOTES:

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

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Teledyne Relays: XV46D30K