TELEDYNE RELAYS

A Unit of Teledyne Electronics and Communications

Series XV

Single Output to 30A 420 Vac No Heat Sink, Hybrid Relay

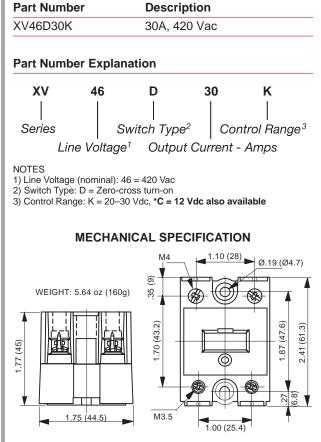


Figure 1 – XV relay; dimensions in inches (mm)

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	1	30	Vdc
Control Frequency		1	Hz

TYPICAL APPLICATION

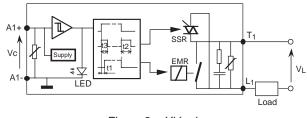


Figure 2 – XV relay



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.

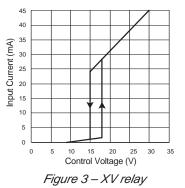
APPLICATIONS

- 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





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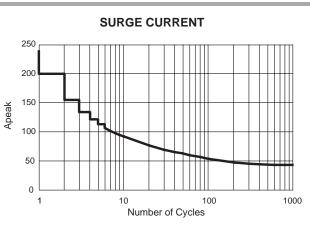
Series XV

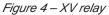
OUTPUT (LOAD) SPECIFICATION

	,		
	Min	Max	Unit
Operating Range	12	420	Vrms
Peak Voltage		800	Vpeak
Load Current Range	0.1	30	Arms
Motor Load Current		7.5	Arms
Maximum Surge Current F	Rating (Nor	n-Repetitive	e)
(See Figure 4)	240	Apeak	
On-State Voltage Drop		0.3	V
Zero-Cross Window (Typical)		±12	V
Off-State Leakage Current (60Hz)		2	mA
Turn-On Time (60Hz)		12	ms
Turn-Off Time (60Hz)		20	ms
Off-State dv/dt		500	V/µs
Maximum di/dt (Non-repetitive)		50	A/µs
Operating Frequency	40	440	Hz
I ² t for fuse matching (<8.3ms)		288	A ² S

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		





LIFETIME EXPECTANCY

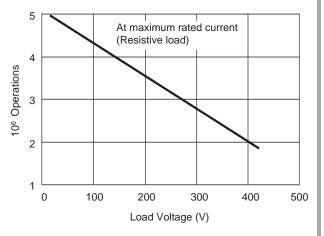


Figure 5 – XV relay

NOTES:

1. Electrical Specifications at 25°C unless otherwise specified.

For 800Hz applications, contact factory.
For additional/custom options, contact factory.

Mouser Electronics

Authorized Distributor

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Teledyne Relays: XV46D30K