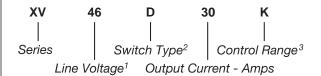


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| Part Number | Description |
|-------------|--------------|
| XV46D30K | 30A, 420 Vac |

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

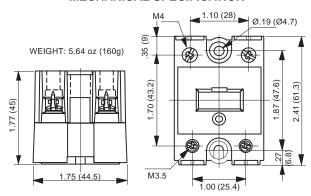


Figure 1 – XV relay; dimensions in inches (mm)

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

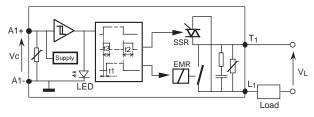


Figure 2 - XV relay



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

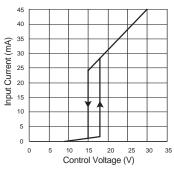


Figure 3 – XV relay

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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 | | |
| | | | |

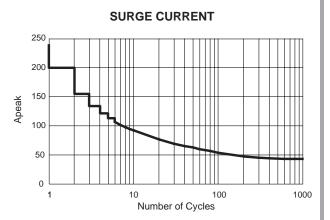


Figure 4 – XV relay

LIFETIME EXPECTANCY

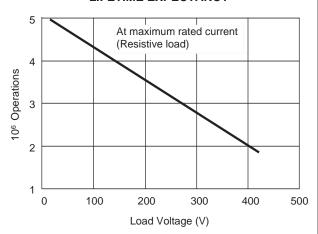


Figure 5 – XV relay

NOTES:

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