KYOTTO KR40 Series
Solid State Relay (SSR)
Specification Sheet

Brand: KYOTTO

Website: www.cb-electronics.com

1. Series Overview

The KYOTTO KR40 Series consists of single-phase, analog-controlled Solid State Relays (SSRs) designed for linear AC power regulation. Unlike conventional ON/OFF SSRs, the KR40 series uses phase-angle control through a physical potentiometer, enabling smooth output adjustment for resistive heaters, incandescent lighting dimming, and simple AC motor speed control.

2. Model Selection Guide

Model	Max Load	Voltage	Input
KR4010AX	10 A	48–480 VAC	VR 0–1 MΩ
KR4025AX	25 A	48–480 VAC	VR 0–1 MΩ
KR4040AX	40 A	48–480 VAC	VR 0–1 MΩ

3. Electrical Specifications

Control Input	Variable Resistor (VR) 0–1 MΩ
Load Voltage Range	48–480 VAC
Rated Frequency	47–70 Hz
Input Impedance	1.5 kΩ
Max Off-State Leakage Current	< 15 mA
Dielectric Strength	2500 VAC min. (Input to Output / Case)
Insulation Resistance	100 MΩ min. (at 500 VDC)

4. Physical & Thermal Properties

Dimensions	60 mm × 47.5 mm × 25 mm (Standard Hockey Puck)
Mounting Pitch	47.5 mm
Operating Temperature	-20°C to +80°C
Thermal Mitigation	Required for loads above 5 A. Use thermal pad/grease with KH060 heatsinks (up to 25 A) or KH100 heatsinks (up to 40 A).
Kit Inclusion	Ships with a Φ24 mm 1 MΩ B-type potentiometer, a 0–100% dial panel plate, and a matching dial knob.