

KYOTTO KL40 SERIES

Single-Phase AC Solid State Relays (SSR)

Datasheet

Brand: KYOTTO
Website: www.cb-electronics.com

Series Overview

The KYOTTO KL40 Series is a family of single-phase AC-to-AC Solid State Relays (SSRs) intended for industrial AC switching applications. Compared with the KL20 Series, the KL40 Series supports load voltages up to 480 VAC while maintaining zero-cross switching for reduced electrical noise and improved load reliability.

Model Selection Guide

Model	Max Load Current
KL40C10AX	10 A
KL40C15AX	15 A
KL40C25AX	25 A
KL40C40AX	40 A
KL40C50AX	50 A
KL40C75AX	75 A
KL40C90AX	90 A
KL40C100AX	100 A
KL40C125AX	125 A

General Specifications

Control Voltage	80–280 VAC
Load Voltage	48–480 VAC
Peak Blocking Voltage	1200 Vpeak
Switching Type	Zero Cross
Turn-On Delay	< 2 ms
Maximum On-State Voltage Drop	2 VAC
Frequency Range	47–70 Hz
Dimensions	58.0 × 44.0 × 22.0 mm

Mechanical & Installation Information

Mounting	Panel mount
Terminals	Heavy-duty screw terminals

Safety Accessories	Compatible with the KSC-1 protective safety cover
Cooling	For models rated 25 A and above, install on a suitable aluminum heatsink using thermal compound.
Applications	Industrial heaters, temperature control, ovens, HVAC equipment, lighting control, and general AC automation.

Installation Notes

Zero-cross switching minimizes inrush current and electromagnetic interference. Mount the relay securely to a flat metal surface or compatible heatsink. Apply thermal compound between the relay base and heatsink for optimum heat transfer. Maintain adequate ventilation when operating high-current models continuously.