

KYOTTO KC20 SERIES

Current-Controlled AC Solid State Relays (SSR)

Datasheet

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

Series Overview

The KYOTTO KC20 Series comprises current-controlled (analog switching) Solid State Relays (SSRs) designed for 24–280 VAC operation. The output is regulated through phase-angle control proportional to a 4–20 mA control current, making the series suitable for analog power regulation in industrial AC applications.

Series Selection Guide

Model	Max Load Current
KC2010AX	10 A
KC2015AX	15 A
KC2025AX	25 A
KC2040AX	40 A
KC2050AX	50 A
KC2075AX	75 A
KC2090AX	90 A

Technical Specifications

Control Current Input	4–20 mA DC (Equivalent to 3.8–10 VDC)
Rated Operational Voltage	24–280 VAC
Non-Repetitive Peak Voltage	600 V _{peak}
Frequency Range	40–65 Hz
Input-Output Isolation	4000 V _{rms}
Output-Case Isolation	2500 V _{rms}
Switching Mechanism	Phase Angle Control

Mechanical Specifications

Dimensions	58.0 mm × 44.0 mm × 22.0 mm (L × W × H)
Terminals	Heavy-duty M4 screw terminals
Mounting	Standard panel mounting
Thermal Management	Relays operating above 10 A should be mounted on a suitable aluminum heatsink (e.g. KH080-50 series). Keep the relay base temperature below 60°C.

Application Notes

Suitable for analog AC power control using a 4–20 mA control loop. Recommended for resistive heating elements, lighting control, and compatible AC loads. Always use an appropriately sized heatsink for high-current applications. Ensure adequate ventilation for reliable long-term operation.