

KYOTTO KG20 SERIES

DC Solid State Relays (SSR)

Datasheet

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

Series Overview

The KYOTTO KG20 Series is a family of industrial-grade, single-phase DC-to-DC Solid State Relays (SSRs) designed for high-frequency, non-contact switching of heavy DC loads. Operating with low-voltage DC logic control, the series replaces traditional mechanical contactors to eliminate arcing, acoustic noise, and mechanical wear.

Model Selection Guide

Model	Load Current	Load Voltage	Blocking Voltage	Surge Current
KG2010D	10 A	5–240 VDC	250 VDC	25 A
KG2025D	25 A	5–240 VDC	300 VDC	43 A
KG2040D	40 A	5–240 VDC	300 VDC	52 A
KG2050D	50 A	5–240 VDC	300 VDC	65 A
KG2075D	75 A	5–240 VDC	300 VDC	90 A

Control Input Specifications

Control Voltage	4.0 ~ 32.0 VDC
Must Turn-Off Voltage	Max. 1.0 VDC
Input Impedance	1.5 kΩ constant current design
Status Indicator	Integrated red LED

Output Specifications

On-State Voltage Drop	1.5 ~ 1.6 VDC at rated current
Off-State Leakage Current	< 3.0 mA
Switching Element	High-power MOSFET / BJT array

General Characteristics

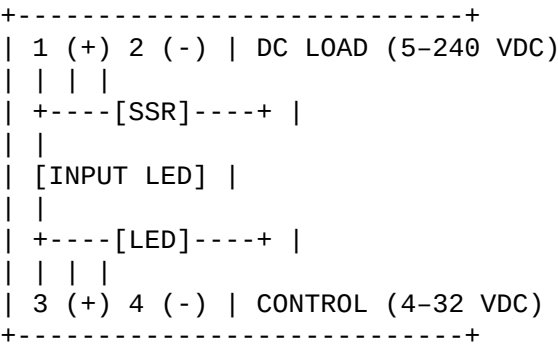
Turn-On Time	< 2.0 ms
Turn-Off Time	< 8.3 ms
Dielectric Strength	2500 Vrms (Input-Output and Terminals-Case)
Input-Output Capacitance	< 15 pF
Operating Temperature	-30°C to +80°C

Storage Temperature	-30°C to +100°C
Net Weight	Approx. 95–105 g

Mechanical Specifications

Length	58.4 mm
Width	45.7 mm
Height	26.2 mm
Mounting Pitch	47.5 mm
Housing	Flame-retardant industrial ABS plastic

Terminal Pinout



Thermal Management Recommendations

Use a suitable aluminum heatsink for continuous loads above **5 A**. Apply a thin layer of thermal grease or a thermal pad between the relay base and the heatsink. For inductive loads such as motors, solenoids, and magnetic clutches, install a fast-recovery flyback diode in parallel with the load. Proper thermal management maximizes relay lifetime and reliability.