RM1A40A50 Carlo Gavazzi 440VAC 50A Solid State Relay Datasheet

SKU: 710870230921

Category: Relays & Contactors

Price: **$85.43**

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Product Page:
https://www.equipspares.com/product/rm1a40a50-carlo-gavazzi-440vac-50a-solid-state-relay

Product Description

Carlo Gavazzi RM1A40A50 is a 1-phase zero-cross switching solid state relay rated for 440 VAC operational voltage and 50 A maximum load current. The unit features a dual control voltage input range of 20 to 280 VAC or 22 to 48 VDC, utilizing Direct Copper Bonding (DCB) technology for optimized thermal management. Structural elements include a built-in varistor for transient overvoltage protection up to 800 Vp, self-lifting screw terminals accommodating up to 16 mm² wiring, and a clip-on IP20 protection cover. The relay provides 4000 Vrms opto-isolation between input and output, integrated LED status indication, and an antiparallel thyristor output architecture.

RM1A40A50 Specifications
Model Number: RM1A40A50
Brand: Carlo Gavazzi
Product Category: Solid State Relay (SSR)
Phase: 1-Phase
Switching Mode: Zero-Cross
Operating Voltage (Ue): 42 to 440 VAC
Peak Blocking Voltage: 800 Vp
Rated Operational Current (AC-51): 50 A
Rated Operational Current (AC-53a): 15 A
Control Voltage (AC): 20 to 280 VAC

Control Voltage (DC): 22 to 48 VDC
Isolation Voltage (Input to Output): 4000 Vrms
Protection Rating: IP20
Terminal Type: Screw with captive clamp
Maximum Cable Capacity: 16 mm²
Thermal Technology: Direct Copper Bonding (DCB)
Transient Protection: Built-in Varistor
Status Indicator: LED
Mounting Type: Panel Mount
Weight: 0.10 kg
Certifications: CE, UL, CSA, CCC, EAC, UKCA

RM1A40A50 Applications

Primary applications include integration into industrial heating control panels, plastic injection molding machines, and HVAC thermal management systems. Deployed within CNC spindle cooling units, commercial packaging machinery, and automated lighting control cabinets requiring high-frequency zero-cross switching. Utilized in semiconductor manufacturing equipment and food processing ovens to provide precise, transient-protected load regulation.

Supplemental Images


RM1A40D50
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