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Data Sheet

August 15, 2026

DWYEROMEGA / OMEGA

DWYEROMEGA / OMEGA SSRL240DC10 Solid State Relay

Omega SSRL240DC10 DC-Input AC Solid State Relay Queue model SSRL240DC10 is the OMEGA SSRL240-660 family 10 A DC-control AC-output hockey-puck SSR. OMEGA SSRL datasheet lists 10 A max on-state, 100 mA min on-state, 150 A 1-cycle surge, 30 A 1 s surge, 416 A2s I2t at 60 Hz, 24 to 280 VAC load, 3 to 32 VDC control, 3 VDC turn-on, 1 VDC turn-off, 14 mA control current, 800 V peak, 1.6 V on-state drop, 0.1 mA off-state leakage, zero-voltage switching, 4000 V rms input-to-output isolation, 2500 V rms input/output-to-ground, 8 pF coupling, 47-63 Hz, minus 20 to plus 80 C operate, minus 40 to plus 80 C store. Fuse companion KAX-10 with FB-1/2/3 blocks. SPST-NO, millions of cycles, intended for resistive heaters with temperature controllers. Queue model SSRL240DC10 is the OMEGA SSRL240-660 family 10 A DC-control AC-output hockey-puck SSR. OMEGA SSRL datasheet lists 10 A max on-state, 100 mA min on-state, 150 A 1-cycle surge, 30 A 1 s surge, 416 A2s I2t at 60 Hz, 24 to 280 VAC load, 3 to 32 VDC control, 3 VDC turn-on, 1 VDC turn-off, 14 mA control current, 800 V peak, 1.6 V on-state drop, 0.1 mA off-state leakage, zero-voltage switching, 4000 V rms input-to-output isolation, 2500 V rms input/output-to-ground, 8 pF coupling, 47-63 Hz, minus 20 to plus 80 C operate, minus 40 to plus 80 C store. Fuse companion KAX-10 with FB-1/2/3 blocks. SPST-NO, millions of cycles, intended for resistive



MODEL

DWYEROMEGA /
OMEGA
SSRL240DC10

CALIBRATION

Available on
request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SSRL240DC10

LISTING

[https://aumatictechlabs.c
om/products/ssrl240dc
10-3/](https://aumatictechlabs.com/products/ssrl240dc10-3/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The DWYEROMEGA SSRL240DC10 is a single-pole solid-state relay engineered for AC load switching with DC control inputs. This SPST-NO relay uses SCR switching technology with zero voltage turn-on to minimize RFI in sensitive electronic environments. Rated for 10 A loads across 24 to 280 VAC, it delivers multi-million cycle life with minimal leakage current and rapid switching response. Panel-mounted with screw terminals and an LED input indicator, it integrates directly with temperature controllers for resistive heating element control. Technical Specifications Load current rating: 10 A AC line voltage range: 24 to 280 VAC DC control signal: 3 to 32 VDC, maximum 14 mA input Maximum off-state leakage: 0.1 mA On-state voltage drop: 1.6 V maximum Surge current (1-cycle): 150 A maximum Surge current (1-second): 30 A maximum Turn-on time: 20 ms (AC) / 0.5 cycle (DC) Turn-off time: 30 ms (AC) / 0.5 cycle (DC) Input-to-output isolation: 4000 Vrms Input/output-to-ground isolation: 2500 Vrms Operating temperature: -20°C to 80°C Storage temperature: -40°C to 80°C Line frequency range: 47 to 63 Hz Input-to-output capacitance: 8 pF maximum Key Features SCR-based solid-state design with zero voltage switching Multi-million cycle life for extended operational longevity Minimized RFI generation due to zero voltage turn-on LED input status indicator for visual control verification Low input control current (14 mA maximum) Extremely low off-state leakage (0.1 mA) High isolation voltage ratings (4000 Vrms input-to-output) Typical Applications Temperature controller integration for resistive heating elements Industrial process control switching Environments requiring low electromagnetic noise Panel-mounted automation and control systems Compatibility & Integration Optional finned heat sinks (FHS-1, FHS-2, FHS-6) support thermal management. Load circuit protection requires fuse blocks (FB-1, FB-2, FB-3) and appropriately rated fuses such as KAX-10 for 10 A loads.

SSRL240DC10 Characteristics / Specifications

PARAMETER	VALUE
Model	SSRL240DC10
Instrument Type	DC input AC output solid state relay
Family	OMEGA SSRL240 / SSRL660
Load Voltage	24 to 280 VAC
Max On State	10 A
Min On State	100 mA
Surge One Cycle	150 A
Surge One Second	30 A
I2t	416 A2s at 60 Hz
Control Voltage	3 to 32 VDC
Turn On	3 VDC
Turn Off	1 VDC
Control Current	14 mA
Peak Voltage	800 V (60 s max)
On State Drop	1.6 V
Off State Leakage	0.1 mA
Switching	zero voltage crossover
Input Output Isolation	4000 V rms
Ground Isolation	2500 V rms
Coupling Capacitance	8 pF maximum
Line Frequency	47 to 63 Hz
Operating Temperature	minus 20 C to plus 80 C
Storage Temperature	minus 40 C to plus 80 C
Contact Form	SPST normally open
Fuse Class	KAX-10 with FB-1, FB-2 or FB-3

PARAMETER	VALUE
Heat Sinks	FHS-1 2 C/W, FHS-2 1.2 C/W, FHS-6 0.7 C/W family accessories
Manufacturer	OMEGA (DWYEROMEGA)
Literature	OMEGA SSRL240/660 solid state relay datasheet, SSRL240DC10 10 A DC-control row
Output isolation	4000 V rms

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 80 C
Operating temperature	minus 20 C to plus 80 C
Operating Temperature	minus 20 C to plus 80 C
Contact Form	SPST normally open
Fuse Class	KAX-10 with FB-1, FB-2 or FB-3
Heat Sinks	FHS-1 2 C/W, FHS-2 1.2 C/W, FHS-6 0.7 C/W family accessories
Manufacturer	OMEGA (DWYEROMEGA)
Literature	OMEGA SSRL240/660 solid state relay datasheet, SSRL240DC10 10 A DC-control row Notes From OMEGA SSRL240/660 datasheet 10 A DC-control row (SSRL240DC10). SSRL660 48-660 VAC and 50-100 A surge figures are other family rows.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Turn Off	1 VDC
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Peak Voltage	800 V (60 s max)
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Switching	zero voltage crossover
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Ground Isolation	2500 V rms
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Operating Temperature	minus 20 C to plus 80 C
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Contact Form	SPST normally open
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Heat Sinks	FHS-1 2 C/W, FHS-2 1.2 C/W, FHS-6 0.7 C/W family accessories

PARAMETER	VALUE
Manufacturer	OMEGA (DWYEROMEGA)
Literature	OMEGA SSRL240/660 solid state relay datasheet, SSRL240DC10 10 A DC-control row

Notes
From OMEGA SSRL240/660 datasheet 10 A DC-control row (SSRL240DC10). SSRL660 48-660 VAC and 50-100 A surge figures are other family rows.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.