Solid-State Relays
SRP1-CC Series



Description

The SRP1-CC series of solid-state relays (SSRs) offers a dependable solution for DC output applications. Designed to meet industry standards, the Littelfuse SRP1-CC series provides consistent performance for everyday use. With a broad voltage range and practical design, these relays are suitable for a variety of applications, from industrial automation to renewable energy systems.

- Reliable Operation: The SRP1-CC series ensures stable performance, making it a solid choice for standard DC output needs.
- IP20 Removable Protection: The IP20-rated design ensures protection against dust and accidental contact. Easily remove the cover for maintenance or adjustments.

Features & Benefits

FEATURES	BENEFITS
MOSFET Technology	Provides efficient switching with low power dissipation and high overcurrent capability, ensuring reliable performance in demanding applications.
Compliance with International Standards (cЯUus, VDE, CE, UKCA)	Ensures that the Solid-State Relay (SSR) has undergone rigorous testing, providing enhanced safety and product quality.
Efficient Design with High Quality	Balances cost-effectiveness with reliable performance, making it an ideal choice for budget-conscious projects

Applications

- DC heaters
- Solenoid valves
- Fans and electric motors
- Battery connection/disconnection
- Packaging machinery
- Medical & test equipment

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Ordering Information

FOR HEATING CONTROL

CATALOG NUMBER	OUTPUT MAX CURRENT	OUTPUT VOLTAGE	OUTPUT SWITCHING STYLE	OUTPUT OVERVOLTAGE PROTECTION	INPUT VOLTAGE RANGE	COMPLIANCE
SRP1-CCDDV-020NC-N	20A	100 VDC	DC	-	4-32 V DC	cЯUus, CE
SRP1-CCDDL-020NC-N	20A	200 VDC	DC	-	4-32 V DC	cЯUus, CE
SRP1-CCDDV-040NC-N	40A	100 VDC	DC	-	4-32 V DC	cЯUus, CE
SRP1-CCDDL-040NC-N	40A	200 VDC	DC	-	4-32 V DC	cЯUus, CE

Input/Control Specifications[1]

GENERAL DATA

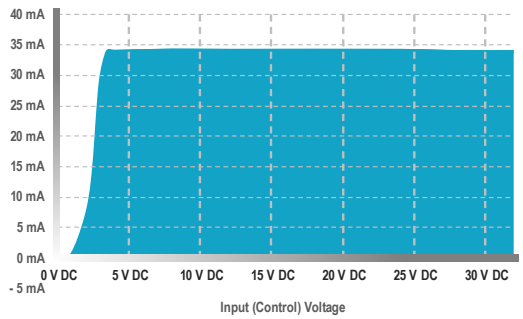
SYMBOL	PARAMETER	RANGE	VALUE	UNIT
Uc	Input (Control) Voltage*	Maximum	32	V DC
		Nominal	12-24	V DC
		Minimum	3,5	V DC
Urv	Reverse Voltage	Maximum	-32	V DC
Uc on	Turn-On Voltage (Pick-up/Engage/Activation Voltage)	Minimum	3,5	V DC
Uc off	Turn-Off Voltage (Drop Out/Release Deactivation Voltage)	Nominal	1,0	V DC
Ic	Input (Control) Current	Maximum	35	mA
		Minimum	32	mA
-	Input Impedance	Nominal	Current Regulated	-
Ton	Turn-On Time	Maximum	40	µs
Toff	Turn-Off Time	Maximum	40	µs

*Increase Min voltage by 1V for operations from -20 to -40°C.

Input Current vs Input Voltage Graphs (For Power Supply Selection)

To ensure the Solid-State Relay (SSR) operates efficiently and reliably, it is essential to understand the relationship between input voltage and input current. The following input current graphs provide detailed information on the current consumption of our SSRs across the specified input voltage range (4-32 VDC). This data is crucial for selecting an appropriate power supply and ensuring the relay functions within its safe operating limits. Proper understanding of current consumption is vital for the optimal performance of your application.

4-32 VDC Input



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