

Schneider Series Service Manual

140CRA21220C

1. Description

The 140CRA21220C from Schneider Electric serves as a DIO drop interface featuring two redundant ports. Operating on a supply voltage of 24 VDC, this component has a range between 20 and 30 V. It is specifically designed to handle inrush currents of up to 30 A while dissipating 11 W of power reliably. The device also incorporates short-circuit and overvoltage protection mechanisms, ensuring dependable operation.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type DIO Drop Interface
Product	Line Modicon Quantum
Part	Number 140CRA21220C
Ports	2 Redundant
Supply	Voltage 24 VDC
Supply	Voltage Limits 20 to 30 V
Inrush	Current 30 A
Max	Buffer Time 1 ms
Fuse	Rating 2.5 A
Output	Voltage 5.1 V
Output	Current 3 A
Short-Circuit	Protection Yes
Overvoltage	Protection Yes
Power	Dissipation 11 W
Altitude	<= 5000 m
Protective	Treatment Conformal Coating
Humidity	95 % without condensation

3. Product Information

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Technical specifications for 140CRA21220C

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Short-Circuit Protection Yes

Overvoltage Protection Yes

Power Dissipation 11 W

Altitude <= 5000 m

Protective Treatment Conformal Coating

Humidity 95 % without condensation

Description

The Schneider Electric 140CRA21220C is a dedicated DIO drop interface designed for reliable performance in dynamic environments. It utilizes a 24 VDC operating voltage, with specified limits from 20 to 30 V, making it suitable for a range of applications. This interface features two redundant ports to enhance system reliability. The device manages inrush currents of up to 30 A effectively and provides output voltage of 5.1 V for its operations. With the capability to output a current of 3 A, it reliably supports connected devices. Additionally, the 140CRA21220C includes built-in short-circuit and overvoltage protection to safeguard against electrical disturbances, enhancing its durability. Power dissipation for this interface is rated at 11 W, ensuring efficient energy use in various conditions. This product operates optimally at altitudes not exceeding 5000 m and can withstand humidity levels of 95% without condensation, allowing it to function reliably in diverse environments. A conformal coating provides additional protection against moisture and contaminants, further ensuring long-term reliability.