

Ireland SPaj140C Relay Protection Device



AI Overview

The ABB SPAJ140C is a combined overcurrent and earth-fault relay designed for rapid, multi-stage protection of feeders and motors in industrial and utility power systems.

Overview The SPAJ140C is a high-performance numerical protection relay that integrates phase overcurrent and neutral earth-fault detection into a single compact unit, suitable for radial feeders in solidly-earthed, resistance-earthed, or impedance-earthed systems (ABB). It provides selective short-circuit and earth-fault protection, ensuring rapid isolation of faults to safeguard equipment and maintain system stability.

Key Features

- Multi-stage protection:** Low-set and high-set stages for sustained overloads and severe short circuits, with fault isolation in as little as 40 ms.
- IDMT and definite-time curves:** Six IDMT curve options allow precise coordination with upstream and downstream devices.
- Circuit breaker failure protection:** Built-in functionality to detect and respond to breaker malfunctions.
- Flexible tripping and signaling:** Supports alarms, auto-reclosing, and fault data recording.
- Output relays:** Two heavy-duty and four light-duty relays configurable for various applications.
- Communication and configuration:** Settings can be adjusted via front panel push buttons, serial communication bus, PC software, or external control signals.

Operation The SPAJ140C continuously monitors phase currents and neutral current through connected current transformers. When a fault exceeds the programmed thresholds: The relay issues a start signal for the overcurrent or earth-fault unit. After the preset operate time, it trips the circuit breaker. It can initiate auto-reclosing, provide alarms, and record fault data for analysis. The low-set stages handle sustained overloads, while high-set stages respond to severe short circuits, ensuring dual-layer protection.

Technical Specifications

- Operating voltage:** 18-265 V AC/DC depending on model.
- Frequency range:** 50-60 Hz.
- Current settings:** Configurable for single, two, or three-phase overcurrent protection.
- Self-supervision:** Continuous har...

Article Content

Combined overcurrent and earth-fault relay SPAJ 140 C

The combined over-current and earth-fault relay SPAJ 140 C is used for the selective short-circuit and earth-fault protection of radial feeders in solidly-earthed, resistance-earthed or impedance-earthed

[SPAJ 140 C Relay User Manual | PDF | Relay | Power Supply](#)

This document provides the user's manual and technical description for the SPAJ 140 C overcurrent and earth-fault relay. It includes three sentences: The SPAJ 140 C relay provides three-phase

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It also features breaker failure protection, output relays, self-monitoring capabilities, and data communication over a serial port. The relay is intended for short-circuit

SPAJ 140 C Relay Overview and Features

The document describes a combined overcurrent and earth-fault relay called SPAJ 140 C. It has the following key features: - It provides three-phase overcurrent

ABB SPAJ140C, SPAJ140C AA

The ABB SPAJ140C & SPAJ140C AA integrated protection relay offers unparalleled reliability and precision in safeguarding electrical systems, ensuring optimal performance across various industrial

[Reliable Solutions for Efficient spaj140c relay protection device ...](#)

Discover reliable, high-performance spaj140c relay protection device designed for precision and durability. Enhance control systems with advanced features and exceptional efficiency.

SPAJ140C SPAJ140C Overcurrent and ground protection device

Functions and Applications: The SPAJ140C is suitable for radiant feeders in directly grounded, resistance grounded or impedance grounded power systems, providing selective protection against

[SPAJ140C Relay protection device Reliable performance and long life](#)

The SPAJ140C is a Relay protection device manufactured by ABB. It can be used to protect high current grounding, resistance grounding, neutral point ungrounding in power systems and radiation feeder

[SPAJ 140 C-AA | ABB](#)

Hier finden Sie das Datenblatt sowie die zum Produkt gehörende Dokumentation. Für weitere Informationen nutzen Sie bitte das Kontaktformular am Ende dieser Seite.
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ABB SPAJ 140 C Combined Overcurrent Relay Manuals

View online or download Abb SPAJ 140 C Combined Overcurrent Relay User Manual And Technical Description.

ABB SPAJ 140 C Series A world-class relay collection for optimised ...

A world-class relay collection for optimised protection functions The SPAJ 140 C Series relays serve your network with reliable and versatile technical features: – The SPAJ 140 C relay

SPAJ 140 C Series

This compact package facilitates combined phase and neutral current relay functions for use with selective short-circuit and time-overcurrent protection of distribution feeders.

SPAJ 140 C Relay Manual: Overcurrent & Earth-Fault

Learn about the SPAJ 140 C relay for overcurrent and earth-fault protection. Features, settings, and configuration details included.

ABB Library

SPAJ 140 C Overcurrent and earth-fault relay, User's Manual and Technical Description (TR) ID:1MRS757673, REV:A Turkish Manual Manual 2012-06-26 PDF file_download 0,31 MB PUBLIC

SPAJ140C_Brochure_06.pmd

The combined phase and neutral overcurrent relays of the SPAJ 140 series are used for the selective short-circuit and time overcurrent protection of radial feeders in distribution networks.

SPAJ 140 C Relay User Manual

1. The SPAJ 140 C is a three-phase, low-set overcurrent relay with definite time or inverse time characteristics for phase overcurrent protection. It also provides non

ABB SPAJ 140 C User Manual And Technical Description

The relay case includes a hinged, gasketed, clear, UV-stabilized polycarbonate cover with a sealable fastening screw, also providing IP 54 protection. Input and

Spaj 140 C Overcurrent and Earth-Fault Relay: User S Manual

This document provides information about the SPAJ 140 C combined overcurrent and earth-fault relay. It describes the features and applications of the relay, explains its protection functions and operation,

ABB SPAJ 140C Over Current & Earth Fault Relay

ABB SPAJ 140C Over Current and Earth Fault Relay - Protect your systems from overcurrent and earth faults. Reliable and efficient protection.

ABB SPAJ140C Overcurrent and Earth-Fault Relay

The ABB SPAJ140C is a high-performance combined overcurrent and earth-fault

SPAJ140C_EN_A

Output relay A is a heavy-duty trip relay capable of controlling most circuit breakers. The operate signals of the different protection stages are routed to the trip relay with switches 2,4,6 and 8 of

SPAJ 140 C Relay Overview and Functions | PDF

This document describes the SPAJ 140 C relay, which provides non-directional overcurrent and earth-fault protection for applications such as feeder protection,

ABB SPAJ140C Combined Overcurrent and Earth Fault Protection Relay

Product Introduction The ABB SPAJ140C is a sophisticated digital protection relay designed for medium-voltage power distribution systems. It serves as a critical component in ABB's SPA series,

ABB SPAJ140C Combined overcurrent and earth fault relay

APPLICATIONS The SPAJ 140 C combined overcurrent and earth fault relay is intended for use on solid earths, The combined overcurrent and earth fault relay is used for selective short

Industrial Electrical & Automation Hacks

The overcurrent and earth-fault relay SPAJ 140 C is used for the short-circuit and earth-fault protection. Relay Nomination: IL1 = R Phase IL2 = Y Phase IL3 = B Phase IO = Earth Fault

SPAJ140C overcurrent and ground protection device

Easy to use: the basic function is overcurrent and ground fault protection, simple operation, mature technology. Digital protective relays: As one of the most commonly used digital protective relays on

ABB SPAJ140C Over-Current and Earth-Fault Relay

This compact unit combines multiple protection, monitoring, and control functions into one reliable device. Its robust design ensures dependable operation across harsh environments. Moreover, it

ABB SPAJ140C Combined Overcurrent and Earth Fault Protection Relay

As a “combined” protection unit, it houses both phase overcurrent protection and earth fault protection elements within a single, compact housing, simplifying panel design and reducing installation costs.

SPAJ 140 C Overcurrent & Earth-Fault Relay User Manual

User manual and technical description for the SPAJ 140 C overcurrent and earth-fault relay. Includes features, application, operation, and technical data.

Download ABB SPAJ 140 C User Manual And Technical Description

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