SPACOM SPAJ 140 C RELAYS

Product Data Sheet

SPAJ140C-CA

Overcurrent and Earth-Fault Relay

AUXILIARY SUPPLY RANGE	RATED FREQUENCY	CT SECONDARY RATINGS	PHASE CURRENT INPUTS
18-80 V DC, CA option	**50 Hz, CA option**	**1 A or 5 A**	**3**

ABB SPAJ140C-CA is a combined overcurrent and earth-fault relay in the SPACOM SPAJ 140 C family. It combines three-phase low-set and high-set overcurrent stages with two earth-fault stages, configurable trip and signalling outputs, local indication and continuous self-supervision. The low-set stages offer definite-time or inverse-time characteristics, while the high-set stages provide instantaneous or definite-time operation.

01 TECHNICAL DATA

Auxiliary supply range	18-80 V DC, CA option
Rated frequency	50 Hz, CA option
CT secondary ratings	1 A or 5 A
Phase current inputs	3
External binary control inputs	1
Heavy-duty output relays	2
Signal output relays	4
Quiescent power consumption	Approximately 4 W
Operating power consumption	Approximately 6 W
Low-set phase pickup, definite time	0.5-5.0 x In

ABB SPAJ 140 C Product Guide 1MRS 750361-MBG, April 1999; pages 1-8 including CA ordering definition.

02 ADDITIONAL PRODUCT DATA

High-set phase pickup	0.5-40.0 x In; disable option
Low-set earth-fault pickup	0.1-0.8 x In
Serial data rates	4800 or 9600 Bd
Service temperature	-10 to +55 C
Panel-mounted enclosure protection	IP54

03 PRODUCT FUNCTION

The CA ordering option specifies a 50 Hz rated frequency and an 18-80 V DC auxiliary supply using the low-voltage supply configuration. Current-transformer inputs support 1 A or 5 A secondary circuits. Two heavy-duty and four signal output relays are assigned through the output matrix, and one external binary input provides configurable blocking, reset or setting-bank control. An optional SPA bus connection module links the rear serial interface to a fibre-optic bus.

04 SYSTEM COMPATIBILITY

Configure the low-set and high-set phase and earth-fault stages for the protection study, including the selected definite-time or inverse-time characteristic. Route start and trip signals through the output matrix to the two heavy-duty and four signal relays. Assign the external binary input to its intended blocking, reset or setting-bank function.

05 REFERENCE

ABB SPAJ 140 C Product Guide 1MRS 750361-MBG, April 1999; pages 1-8 including CA ordering definition.

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