



RXPDK 21H 1MRK000844-BB

ABB Directional Time-Overcurrent Relay

Product scope

- Identifies the 5 A RXPDK 21H execution by ABB ordering number 1MRK000844-BB.
- Combines a directional delayed stage with a non-directional instantaneous stage.
- Uses the RXTUG converter to provide the relay's required +24 V DC auxiliary supply.
- Requires the RTXP/RTXK test and current-circuit arrangement to be checked before replacement.

Manufacturer source

ABB manuals 1MRK509024-WEN and 1MRK509007-BEN

The exact product record precedes any retained manufacturer manual extracts. Only pages relevant to the current product identity and documented functions are included.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	RXPDK 21H 1MRK000844-BB	

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ABB Directional Time-Overcurrent Relay

Manufacturer-source product record

This page consolidates only model-specific facts verified in the manufacturer sources listed below. It is included to identify the exact ordering code before the retained manufacturer manual pages.

Relay designation	RXPDK 21H
Ordering number	1MRK000844-BB
Rated current	5 A execution
Low-set stage	Directional, time-delayed I> stage
High-set stage	Non-directional instantaneous I>> stage
Auxiliary supply	+24 V DC through the required RXTUG DC/DC converter
Test connector	RTXK automatic shorting test connector arrangement
Application	Directional overcurrent protection in relay protection schemes

Official references

- ABB relay manual 1MRK509024-WEN, RXPDK 21H directional time-overcurrent relay.
- ABB ordering guide 1MRK509007-BEN, RXPDK 21H 5 A ordering data.

No adjacent ordering option has been treated as part of this configuration. The complete label and installed-system requirements must be checked before replacement.

Function, operation and application

The following model-specific notes are limited to functions and operating relationships documented by the listed manufacturer sources.

Protection purpose

RXPDK 21H is used where overcurrent magnitude alone is not sufficient and the fault direction must also be known. The directional low-set stage supports selective protection in networks where current can flow from more than one source.

Operating principle

The relay compares the measured operating current with the polarizing quantity to determine whether the fault lies in the selected direction. If the directional condition and the $I>$ pickup/timing settings are satisfied, the delayed stage operates; the $I>>$ stage provides a separate high-set, non-directional rapid operation.

Output and indication

The relay's output contacts and indications are used by the protection scheme for tripping, signalling or interlocking according to the wired application. The relay does not define the complete trip circuit, so external DC supply, output-contact duty and breaker interface must follow the panel drawings.

Auxiliary and test requirements

The documented RXPDK 21H arrangement uses the RXTUG DC/DC converter to supply +24 V DC and the RTXP/RTXK test system to short current circuits safely during testing. The 5 A execution and ordering number 1MRK000844-BB must match the current-transformer secondary and installed relay base.



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