REF 542PLUS

Product Data Sheet

REF542 PLUS

Multifunction protection and switchbay control unit

RATED FREQUENCY	FREQUENCY MEASUREMENT SPAN	CURRENT MEASUREMENT CLASS	VOLTAGE MEASUREMENT CLASS
50 or 60 Hz	**40 to 75 Hz**	**0.5 over 0.1 to 4 x In**	**0.5 over 0.2 to 1.5 x Un**

ABB REF542 PLUS is a multifunction feeder terminal that combines electrical measurement, protection, switchbay control and self-diagnostics. Its programmable configuration supports medium-voltage distribution and industrial power networks, with hardware and software options selected to suit the protected circuit.

01 VERIFIED TECHNICAL DATA

Rated frequency	50 or 60 Hz
Frequency measurement span	40 to 75 Hz
Current measurement class	0.5 over 0.1 to 4 x In
Voltage measurement class	0.5 over 0.2 to 1.5 x Un
Energy measurement class	2 for active and reactive energy
Instrument-current burden	0.1 VA maximum at In
Instrument-voltage burden	0.25 VA maximum at Un
Operating temperature	-10 to +55 °C
Storage and transport temperature	-25 to +70 °C
Ambient humidity	Up to 95%, non-condensing

Values follow the applicable manufacturer documents identified on page 2.

02 ADDITIONAL PRODUCT DATA

Base-unit enclosure protection	IP20
Installation altitude	Below 1000 m above sea level
Insulation resistance	Greater than 100 Mohm at 500 V DC
Service interface	RS-232 for configuration and firmware
Typical base-unit consumption	20 W maximum, typical configuration with two BIO modules

03 DOCUMENTED USE SETTINGS

Public Electricity Supply and Industrial Power Distribution: Urban Electricity Distribution.

Regional Electricity Networks and Interconnected Power Systems: Interregional Power Transmission.

Discrete Manufacturing and Continuous Industrial Production: Automotive Electronics Manufacturing.

04 SYSTEM COMPATIBILITY

Configure measurement, protection and control together in the REF 542plus engineering environment. Input-board options include conventional instrument transformers, sensors and mixed arrangements; at most eight analog channels are available. The input configuration and protection license determine which functions can be implemented.

05 PRODUCT EVIDENCE

ABB REF 542plus Technical Reference Manual 1MRS755859, version K/2010

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**