REF 542PLUS

Product Data Sheet

REF542 PLUS 76A3NDNN36ESU31

Configured feeder protection and control terminal

APPLICATION CODE	MAINBOARD OPTION	BASE AUXILIARY SUPPLY	ADDITIONAL ANALOG I/O BOARD
6, normal operation	**A, basic board with RJ45 Ethernet**	**48 to 220 V DC nominal; 38.4 to 264 V DC operative**	**N, not installed**

ABB REF542 PLUS 76A3NDNN36ESU31 is a configured feeder protection and switchbay-control terminal in the REF 542plus family. Its type code selects the basic Ethernet mainboard, a wide-range DC supply and one BIO3 binary I/O board for normal-operation applications.

01 VERIFIED TECHNICAL DATA

Application code	6, normal operation
Mainboard option	A, basic board with RJ45 Ethernet
Base auxiliary supply	48 to 220 V DC nominal; 38.4 to 264 V DC operative
Additional analog I/O board	N, not installed
Binary I/O configuration	D in slot 1; slots 2 and 3 empty
Binary input voltage class	88 to 132 V DC
Binary input threshold	72 V DC
Binary input channels	14 on one BIO3 board
Binary output arrangement	6 power, 2 signal and 1 watchdog output
Measurement input combination	36: 3 CT + 3 VT + 1 CT + 1 VT

Values follow the applicable manufacturer documents identified on page 2.

02 ADDITIONAL PRODUCT DATA

Station-communication option	E: IEC 61850 / Modbus TCP, RJ45
Base enclosure version	S, normal base unit
Rated system frequency	50 or 60 Hz
Operating ambient temperature	-10 to +55 °C
Base enclosure rating	IP20

03 DOCUMENTED USE SETTINGS

Discrete Manufacturing and Continuous Industrial Production: Automotive Electronics Manufacturing.

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

Thermal Electricity and Hydroelectric Power Generation: Combined-Cycle Power Generation.

04 SYSTEM COMPATIBILITY

Map the four current-transformer and four voltage-transformer measurement paths to the configuration selected by analog input code 36. The additional 4 to 20 mA I/O option is N, so this selection does not include that optional current-loop board.

05 PRODUCT EVIDENCE

ABB REF 542plus Technical Reference Manual 1MRS755859, ordering tables 7-1 to 7-14

AMIKON PRODUCT SUPPORT

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