



## ACS250 Modbus Network Terminator Splitter RJ45



### SAFETY NOTICES

**WARNING** is given where there is a hazard that could lead to injury or death of personnel.

**CAUTION** is given where there is a hazard that could lead to damage to equipment.

It is the responsibility of the installer to ensure that the equipment or system into which the product is incorporated complies with the EMC legislation of the country of use. Within the European Union, equipment into which this product is incorporated must comply with 89/336/EEC, Electromagnetic Compatibility.

### WARNING

Within the European Union, all machinery in which this product is used must comply with the Machinery Directive 2006/42/EC, Safety of Machinery. In particular, the equipment should comply with EN60204-1.

### CAUTION

- Store the Option in its box until required. It should be stored in a clean and dry environment. Temperature range  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ .

### WARNING

- The ACS250 and the Options should be installed only by qualified electrical persons and in accordance with local and national regulations and codes of practice.

- **Electric shock hazard!** Disconnect and **ISOLATE** the drive before attempting any work on it. High voltages are present at the terminals and within the drive for up to 10 minutes after disconnection of the electrical supply.

- Where the electrical supply to the drive is through a plug and socket connector, do not disconnect until 10 minutes have elapsed after turning off the supply.

## User Guide

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The manufacturer accepts no liability for any consequences resulting from inappropriate, negligent or incorrect installation.

The contents of this User Guide are believed to be correct at the time of printing. In the interests of a commitment to a policy of continuous improvement, the manufacturer reserves the right to change the specification of the product or its performance or the contents of the User Guide without notice.

### SAFETY

This option is specifically designed to be used with the ACS250 variable speed drive product and is intended for professional incorporation into complete equipment or systems. If installed incorrectly it may present a safety hazard. The ACS250 uses high voltages and currents, carries a high level of stored electrical energy, and is used to control mechanical plant that may cause injury. Close attention is required to system design and electrical installation to avoid hazards in either normal operation or in the event of equipment malfunction.

System design, installation, commissioning and maintenance must be carried out only by personnel who have the necessary training and experience. They must read carefully this safety information and the instructions in this Guide and follow all information regarding transport, storage, installation and use of the Option module, including the specified environmental limitations.

Please read the IMPORTANT SAFETY INFORMATION below, and all Warning and Caution boxes elsewhere.

### STANDARDS CONFORMITY

An ACS250 fitted with this Option complies with the Following standards:

- CE-marked for Low Voltage Directive.
- IEC 664-1 Insulation Coordination within Low Voltage Systems.
- UL 840 Insulation Coordination for electrical equipment.
- EN50081-2 EMC Generic Emissions Standard, Industrial Level.
- EN50082-2 EMC Generic Immunity Standard, Industrial Level.
- Enclosure ingress protection, EN60529 IP00, NEMA 250.
- Flammability rating according to UL 94.

### ABB Oy

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Part No.	3AUA0000149996
Model No.	RCNT-01
Manual Part No.	82-TERMSP-ABB_V1.00
Document Part No	3AXD10000286765

# Modbus Network Terminator Splitter RJ45

*The Modbus Network Terminator Splitter allows easy installation of a Termination resistor on RS-485 communication networks.*

Termination resistors are used to reduce signal reflections on the communications network, most often experienced on long cable runs and high baud rates.

The decision to use termination resistors is dependent on the individual application; in general they are only added if needed.

If termination resistors are required then they should be installed at both ends of a network segment. The resistor value should ideally match the cable characteristic impedance, with a typical value being 120Ω.

For further details please refer to the ACS250 User manual.

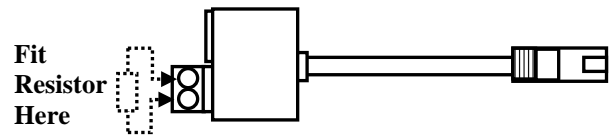
**Note:**

This Option is suitable for use on all ACS250 Drives.

**Part No.** 3AUA0000149996

**Model No.** RCNT-01

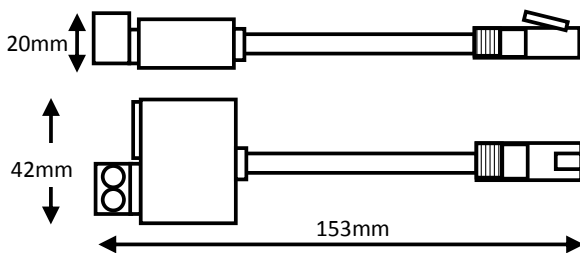
## MODBUS NETWORK TERMINATOR SPLITTER RJ45 Connection diagram.



## EXAMPLE OF USING THE MODBUS NETWORK TERMINATOR SPLITTER RJ45.



## Dimensions



## NOTES



82-TERMSP-ABB\_V1.00

