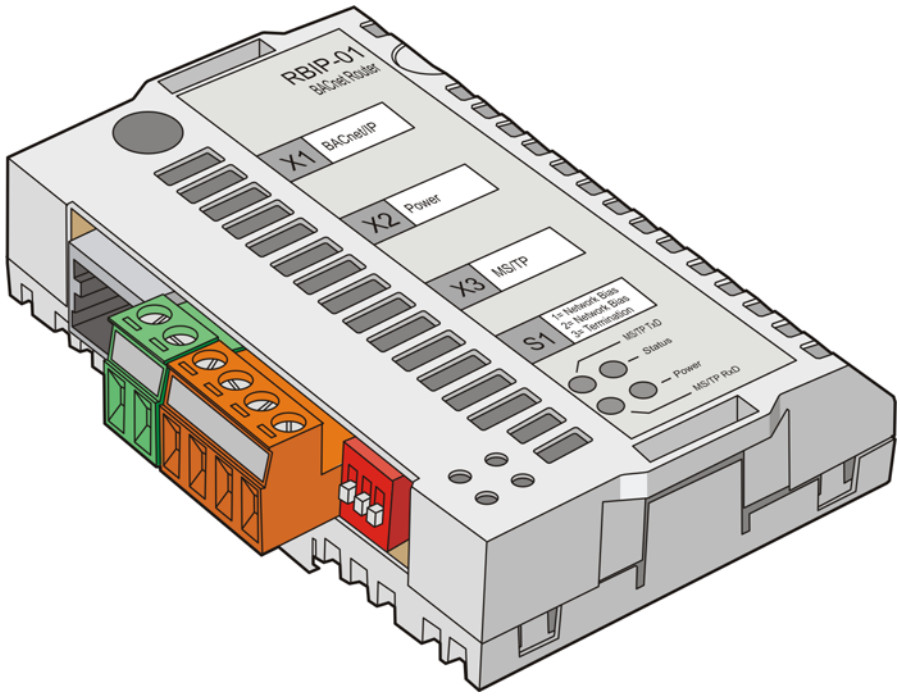
# ACH550

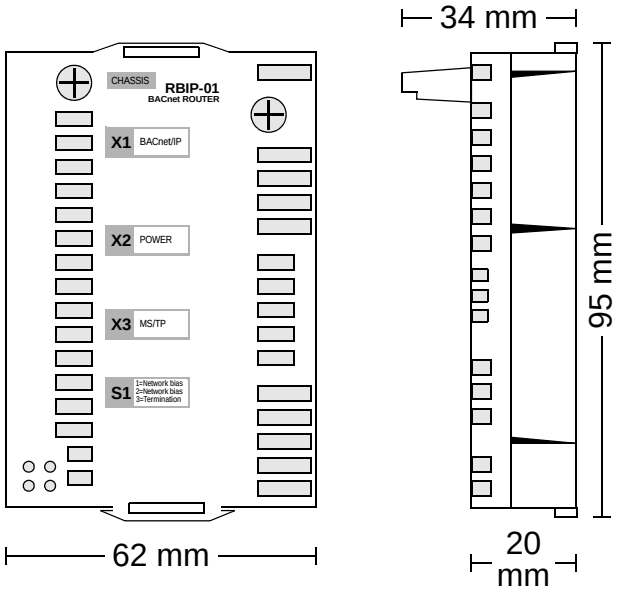
## Installation Manual
## BACnet/IP Router Module
## RBIP-01



# Technical data

## RBIP-01

### Enclosure:




**Mounting:** Into the option slot on the control board of the drive.

**Degree of protection:** IP20

**Power supply:** 12...26 V DC / AC, 200 mA, internal fuse

**Resistors:**

- Network bias resistors, 560 ohms (DIP switches)
- Network termination resistor, 120 ohms (DIP switch)

**Weight:** <100 g

**Ambient temperature range:** 0...45 °C, 32…113 °F

**Ambient humidity range:** 20...80 percent relative humidity, non-condensing

**Indicators:** Six LEDs (POWER, MS/TP TxD, MS/TP RxD, STATUS, an orange and a green network LED). For more information on the LEDs, see the *RBIP-01 BACnet/IP Router Module User's Manual (3AUA0000040159 [English])*

**Connectors:**

- 2-pin connector for power supply
- 4-pin connector for EIA-485
- RJ-45 connector

**Serial port:**

- 1 × serial port EIA-485 BACnet MS/TP; B (+), A (-), AGND, Shield

**Ethernet link:**

- 1 × RJ-45 10/100 Base T Fast Ethernet Port
- Termination: Internal
- Wiring: CAT 5 UTP, CAT 5 FTP* or CAT 5 STP* (*Recommended)
- Connector: RJ-45
- Maximum segment length: 100 m

**Topology:** Bus, star

**Serial communication type:** Half and full Duplex

**Transfer rate:** 10/100 Mbps

# Connection examples

This chapter includes connection examples of the RBIP-01 BACnet/IP Router Module and the ACH550 devices in the MS/TP network.

**Notes:**

- Terminate the EIA-485 network at both ends either using external 120 resistors or using the router module's S1.3 DIP switch if the router module is located at the end of the EIA-485 segment.
- Use network bias resistors at one place of the segment. Use S1.1 and S1.2 DIP switches of the router module. Do not use the ACH550 termination DIP switch if the router module's network bias is switched on.
- Do not use the router module's bias resistors if termination is switched on at the ACH550 drive.