

## 3HAC16831-1

Industrial automation components

<b>Manufacturer</b>	Abb
<b>Catalog number</b>	3hac16831-1
<b>Category</b>	Industrial automation components
<b>Product type</b>	Industrial automation components
<b>Status</b>	Active product

### Technical specification

<b>Weight</b>	0.30 kgs
<b>Voltage</b>	10.8 V
<b>Signal Level</b>	10.8 V
<b>Operating Voltage</b>	24 V DC
<b>Output Frequency</b>	10 kHz
<b>Communication Interfaces</b>	RS-485, Modbus
<b>Power Consumption</b>	2 W
<b>Operating Temperature Range</b>	-25 to +60 °C
<b>Relay Outputs</b>	2 Form C (SPST)
<b>Relay Rating</b>	2 A at 24V DC
<b>Dimensions</b>	52.5 x 48 x 22.5 mm
<b>Weight</b>	35 g

## Description

The ABB 3HAC16831-1 is a high-performance industrial control module designed for precise and reliable operation in various automation systems. Operating at a voltage of 24V DC, it supports an output frequency of up to 10 kHz, ensuring swift response times for critical control tasks. The module features communication interfaces including RS-485 and Modbus, facilitating seamless integration into existing industrial networks. With a maximum power consumption of 2W, it offers energy-efficient performance without compromising on functionality. The operating temperature range spans from -25°C to +60°C, allowing it to function effectively in diverse environmental conditions. Additionally, the module is equipped with two Form C (SPST) relay outputs, each rated at 2A at 24V DC, providing versatile control capabilities. Its compact dimensions of 52.5mm x 48mm x 22.5mm and lightweight design of 35g make it suitable for installations where space and weight are considerations. This module is ideal for applications requiring high-speed data processing and reliable control, such as in manufacturing automation, process control, and robotics.