3HAC042766-001

Industrial automation components

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Manufacturer	Abb
Catalog number	3hac042766-001
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Part Number	3HAC042766-001
Model Series	DSQC1000
Processor Type	Multi-core Intel-based architecture
Operating System	VxWorks Real-Time OS
Input Voltage	24 V DC nominal (Range: 20.4-28.8 V DC)
Power Consumption	Max 35 W typical operation
Memory (RAM)	4 GB DDR3
Storage	32 GB SSD or CompactFlash industrial grade
Communication Interfaces	Ethernet (2x 1 Gbps), USB 2.0, SMB
Cycle Time	< 4 ms for complex motion tasks
Safety Rating	PL d / Category 3 (EN ISO 13849-1)
Operating Temperature	0°C to +55°C

Description

The ABB 3HAC042766-001, also known as the DSQC1000 Computer Unit, is a central processing module designed for ABB's IRC5 robot controllers. This high-performance unit executes complex motion control, processes logic, and manages system communications, ensuring seamless operation of robotic systems. Key features include a multi-core processor architecture, integrated safety logic processing, and support for real-time operating system execution. The DSQC1000 is engineered for compact cabinet mounting, facilitating efficient space utilization in industrial settings. Its robust

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design and advanced capabilities make it a critical component for applications requiring precise and reliable robotic control.

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