HCS011E-W0018-A-03-A-CC-EC-PB-L3-NN-FW

Industrial automation components

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Manufacturer	Bosch Rexroth
Catalog number	hcs011e-w0018-a-03-a-cc-ec-pb-l3-nn-fw
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Bosch Rexroth
Part Number	HCS01.1E-W0018-A-03-A-CC-EC-PB-L3-NN-FW
Product Type	Compact Converter
Series	IndraDrive Cs
Cooling Method	Internal Air Cooling
Communication Interface	SERCOS III Master, PROFIBUS
Encoder Interface	IndraDyn Hiperface, EnDat 2.1/2.2
Operating Temperature Range	0 to +40°C
Installation Height	Up to 1000 meters above sea level m
Dimensions	268 mm x 196 mm x 70 mm
Weight	2.014 kg

Description

The Bosch Rexroth HCS01.1E-W0018-A-03-A-CC-EC-PB-L3-NN-FW is a compact converter from the IndraDrive Cs series, designed for industrial automation applications requiring precise motion control. This power section module integrates seamlessly with Bosch Rexroth's drive controllers, offering a robust solution for demanding automation tasks. Key features include an internal blower for efficient air cooling, ensuring optimal performance in various operational environments. The device supports SERCOS III master communication, facilitating high-speed data exchange and synchronization across multiple

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axes. Additionally, it features a PROFIBUS interface, enabling compatibility with a wide range of automation systems. The encoder interfaces are versatile, accommodating IndraDyn Hiperface and EnDat 2.1/2.2 protocols, which are essential for accurate position feedback in motion control systems. Safety is paramount, and the HCS01.1E-W0018-A-03-A-CC-EC-PB-L3-NN-FW includes Safe Torque Off (STO) functionality, providing a reliable method to disable torque without cutting control voltage, thereby enhancing operational safety. The device operates within an ambient temperature range of 0 to +40°C and can be installed at altitudes up to 1000 meters above sea level, making it suitable for diverse industrial environments. Its compact design, with dimensions of 268 mm x 196 mm x 70 mm and a weight of approximately 2.014 kg, allows for flexible installation in space-constrained settings. The power supply requirements are flexible, accepting single or three-phase AC input ranging from 110 to 230 V at 50 to 60 Hz, with a rated power consumption of 34 W and a control voltage of 24 V ±20%. This versatility ensures compatibility with various industrial power systems. In summary, the Bosch Rexroth HCS01.1E-W0018-A-03-A-CC-EC-PB-L3-NN-FW compact converter offers a comprehensive solution for industrial automation, combining advanced communication interfaces, robust safety features, and adaptable power requirements to meet the needs of modern automation systems.