DKC013-012-3-MGP-01VRS

Industrial automation components

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Manufacturer	Bosch Rexroth
Catalog number	dkc013-012-3-mgp-01vrs
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Manufacturer	Bosch Rexroth
Part Number	DKC01.3-012-3-MGP-01VRS
Product Type	Drive Controller
DC-Bus Nominal Voltage	300 V DC
Rated Current	12 A
Communication Interfaces	RS232/485 serial, Analog
Integrated Branch Circuit Protection	Yes
Cooling Method	Natural Air Cooling
Operating Temperature Range	0–45°C
Installation Elevation	Up to 1000 meters above sea level m
Switching Frequency	4 or 8 kHz
Maximum Connection Rating	3.2 kVA

Description

The Bosch Rexroth DKC01.3-012-3-MGP-01VRS is a high-performance drive controller from the DKC series, designed for precise speed and torque regulation in industrial automation systems. Operating with a DC-bus nominal voltage of 300 V DC and a rated current of 12 A, it ensures robust power delivery for demanding applications. This model features a multi-interface design, supporting RS232/485 serial communication and an analog interface for continuous signal transmission. It also includes integrated

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branch circuit protection to prevent overcurrent conditions and utilizes natural air cooling, requiring proper installation for unobstructed airflow. The controller operates within a temperature range of 0–45°C and can be installed at altitudes up to 1000 meters above sea level. With a switching frequency selectable at 4 kHz or 8 kHz and a maximum connection rating of 3.2 kVA, the DKC01.3-012-3-MGP-01VRS delivers efficient, reliable drive performance. Its universal implementation and digital drive concept reduce total operation costs and simplify startup, making it a valuable asset in modern industrial automation.