

### HLC01.1D-05M0-A-007-NNNN

Industrial automation components

<b>Manufacturer</b>	Bosch Rexroth
<b>Catalog number</b>	hlc011d-05m0-a-007-nnnn
<b>Category</b>	Industrial automation components
<b>Product type</b>	Industrial automation components
<b>Status</b>	Active product

### Technical specification

<b>Manufacturer</b>	Bosch Rexroth
<b>Part Number</b>	HLC01.1D-05M0-A-007-NNNN
<b>Nominal Capacitance</b>	5.0 mF
<b>DC Bus Nominal Voltage</b>	700 V
<b>Protection Rating</b>	IP20
<b>Mounting Depth</b>	400 mm
<b>Weight</b>	8.6 kg
<b>Maximum Current</b>	60 A
<b>Maximum Discharge Time</b>	760 s
<b>Power Dissipation</b>	13 W
<b>Cooling Method</b>	Natural Convection

## Description

The Bosch Rexroth HLC01.1D-05M0-A-007-NNNN is a high-performance capacitor module designed for industrial automation applications requiring efficient energy management. This module features a nominal capacitance of 5.0 mF and operates at a DC bus voltage of 700 V, making it suitable for systems with DC bus connections exceeding 2 meters between controllers. It offers an IP20 protection rating, ensuring reliable performance in various industrial environments. The module has a mounting depth of 400 mm and weighs 8.6 kg, facilitating easy integration into control cabinets. With a maximum current capacity of 60 A and a maximum discharge time of 760 seconds, it effectively supports drive controllers in motion control applications with cycle rates up to 30 cycles per second. The HLC01.1D-05M0-A-007-NNNN dissipates 13 W of power through natural convection cooling, contributing to energy efficiency and system longevity. This capacitor module is an essential component for enhancing the energy balance in applications with rapidly successive machining cycles, such as roll feeds or cross-cutting equipment, by reducing heat loss in the control cabinet and providing temporary energy storage during power failures.