

HLB01.1C-01K0-N06R0-A-007-NNNN

Industrial automation components

Manufacturer	Indramat
Catalog number	hlb011c-01k0-n06r0-a-007-nnnn
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Input Voltage Range	254–750 VDC
Nominal Power	1 kW
Peak Regenerative Power	100 kW
DC Nominal Bus Voltage	700 V
Resistance	6 Ohms
DC Bus Short-Circuit Function	Yes
Dimensions	65 mm x 352 mm x 251.5 mm
Weight	5.8 kg

Description

The Indramat HLB01.1C-01K0-N06R0-A-007-NNNN is a high-performance resistor brake unit designed for efficient energy regeneration and precise motor deceleration in industrial automation systems. Operating within an input voltage range of 254 to 750 VDC, it delivers a nominal power of 1 kW and can handle a peak regenerative power of 100 kW, effectively converting kinetic energy into electrical energy during braking processes. This functionality reduces reliance on mechanical brakes, thereby extending their lifespan and enhancing overall system reliability. The unit features a DC nominal bus voltage of 700 V and a resistance of 6 Ohms, ensuring consistent energy dissipation. It also includes a DC bus short-circuit function for emergency braking during power failures, enhancing operational safety. With a compact design measuring 65 mm in width, 352 mm in height, and 251.5 mm in depth, and weighing 5.8 kg, the HLB01.1C-01K0-N06R0-A-007-NNNN is suitable for integration into various industrial drive systems, including the Rexroth IndraDrive M and IndraDrive C series. Its robust construction and autonomous braking capabilities make it an essential component for applications requiring reliable and efficient motor deceleration and energy recovery.