Indramat

DATA SHEET

HMF01.1A-N0K2-D0095-A-500-NNNN

Industrial automation components

Manufacturer	Indramat
Catalog number	hmf011a-n0k2-d0095-a-500-nnnn
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Indramat
Part Number	HMF01.1A-N0K2-D0095-A-500-NNNN
Product Type	Motor Filter
Rated Current	95 A
Maximum Output Current	150 A
Switching Frequency	4 kHz
Weight	20 kg
Protection Rating	IP10
Voltage Peak Limit	1 kV
Rise Time	1 µs
Cable Length	15 m

Description

The Indramat HMF01.1A-N0K2-D0095-A-500-NNNN is a high-performance motor filter designed to enhance the reliability and longevity of inverter-driven motors. This device effectively suppresses voltage transients and common-mode currents at the inverter output, thereby reducing motor bearing stress and extending service life. It features a Dv/dt filter with a limiter that clamps rising edges and mitigates electromagnetic interference in high-speed drives. The filter's compact design delivers robust performance without bulky components, making it suitable for various industrial applications. Key specifications include a rated current of 95 A continuous, with a maximum output current surge up to 150 A at a switching frequency of 4 kHz. The internal reactor and capacitor values are optimized for low insertion loss and minimal leakage current. With a weight of just 20 kg and a protection rating of IP10 per IEC 60529, it withstands industrial environments without sealed enclosures. The filter limits voltage peaks to 1 kV, achieving a fast rise-time of approximately 1 µs over a 15 m motor cable run. Its design accommodates long cable lengths, ensuring stable insulation stress and reduced bearing currents throughout the network. Integration into CNC machines, automated assembly lines, or retrofitted drives is straightforward via standard inverter mounting points and front-access terminals. The proven Dv/dt limiting action enhances system reliability by preventing dielectric breakdown and insulation failure. By attenuating high-frequency noise and overshoot, the filter improves energy efficiency and minimizes motor vibration and acoustic emission. The HMF01.1A-N0K2-D0095-A-500-NNNN delivers consistent motor protection and uptime, making it an essential component for precision motion control applications.