

NFD03.1-480-016

Industrial automation components

Manufacturer	Bosch Rexroth
Catalog number	nfd031-480-016
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Current	16 A
Relay Specifications	16 A
Measurement Range	480 - 16480
Signal Level	16480 V
Dimensions	55 x 220 x 90 mm
Number of Drives Supported	6 drives
Maximum Motor Cable Length	120 m
Surge Protection	Yes
Nominal Voltage	115-480 V
Power Dissipation	6.4 kW
Ambient Temperature Range	-20 to +80 °C
Protection Features	Voltage spikes and transients, Short circuits due to internal capacitor breakdown

Description

The Bosch Rexroth NFD03.1-480-016 is a mains filter designed for use with the HCS02 series of converters. This industrial-grade filter effectively reduces electrical noise output and eliminates power and mains frequency interferences, ensuring optimal performance of connected equipment. With a rated continuous current of 16 A, it can support up to six drives simultaneously and handle motor cable lengths up to 120 meters. The filter's dimensions are 55 mm in width, 220 mm in height, and 90 mm in depth, making it suitable for installation on DIN rails within switchgear cabinets. It features a combination of capacitors and inductors to attenuate interference and protect electronic control circuits against voltage peaks. The NFD03.1-480-016 also offers surge protection and is scalable in terms of current, number of drives, and motor cable length, providing flexibility for various industrial applications.