6DS1703-8RR

Industrial automation components

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Manufacturer	Siemens
Catalog number	6ds1703-8rr
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	0.20 kgs
Channel Configuration	14
Component Specifications	pt100
Product Type	Module
Weight	0.3 kg
Input Channels	14 channels
Voltage Input Range	100V to 240V
Operating Frequency Band	47Hz to 63Hz
Power Output Capability	15 kW
Control Precision	16-bit

Description

The Siemens 6DS1703-8RR is a Measurement-Point Extension Module designed to enhance the measurement capabilities of Siemens automation systems. This module offers 14 input channels compatible with thermocouples and/or Pt100 resistance thermometers, enabling precise temperature monitoring in industrial applications. Manufactured by Siemens, a leading provider of industrial automation solutions, the 6DS1703-8RR is part of the TELEPERM M series, known for its reliability and high performance. The module features a compact design with dimensions of 5.10 x 25.40 x 17.80 cm and a weight of 0.3 kg, facilitating easy integration into existing systems. It operates over an extended input range of AC voltage, covering the common range of 100V to 240V, making it suitable for multiple regions and industrial settings. The 6DS1703-8RR operates within a wide frequency band of 47Hz to

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63Hz, ensuring compatibility with most industrial power systems. Its power output capability of approximately 15kW enables it to drive a large number of medium/heavy industrial applications. Equipped with a 16-bit precision relative control mechanism, it provides high accuracy in controlling key parameters, which is crucial in precision manufacturing. The module is built with a complete set of protection functions to safeguard itself and connected equipment from electrical hazards, including overvoltage, undervoltage, overcurrent, and overtemperature protection. In abnormal situations, the intelligent fault detection system provides specific error codes and recommends corrective actions to reduce downtime. With versatile programming capabilities, the 6DS1703-8RR can be customized to meet the unique needs of different industries, whether it's the complex specifications of a chemical processing plant or the unique operating requirements of an automated assembly line in an automotive plant. This module is widely applicable in various industrial sectors, including manufacturing, power generation and distribution, and infrastructure and building systems, where precise temperature monitoring and control are essential.