

## DFS11B

Industrial automation components

<b>Manufacturer</b>	Sew-Eurodrive
<b>Catalog number</b>	dfs11b
<b>Category</b>	Industrial automation components
<b>Product type</b>	Industrial automation components
<b>Status</b>	Active product

### Technical specification

<b>Interface Type</b>	fieldbus
<b>Product Type</b>	Module
<b>Protocols</b>	PROFIBUS DP, PROFIBUS DP-V1
<b>Automatic Baud Rate Detection</b>	9.6 kBd – 12 MBd
<b>Connector Type</b>	9-pin D-sub
<b>Pin Assignment</b>	IEC 61158
<b>Bus Termination</b>	Not integrated; requires external PROFIBUS connector with switchable terminating resistors
<b>Station Address Range</b>	1 – 125
<b>Failsafe Address Range</b>	1 – 1022
<b>GSD File Name</b>	SEW_6009.GSD
<b>DP ID Number</b>	6009 (hex) = 24585 (dec)
<b>Diagnostics Data</b>	Standard diagnostics: 6 bytes
<b>External Voltage Supply</b>	DC 24 V (–15%, +20%)
<b>Maximum Current Draw</b>	200 mA

## Description

The SEW-Eurodrive DFS11B is a PROFIBUS DP-V1 with PROFIsafe fieldbus interface option designed for seamless integration with MOVIDRIVE® B frequency inverters. This module facilitates both cyclical and acyclical data exchange, enabling efficient communication between the inverter and higher-level automation systems. It supports PROFIBUS DP and DP-V1 protocols in accordance with IEC 61158 standards, ensuring reliable and standardized communication. The DFS11B offers automatic baud rate detection ranging from 9.6 kBd to 12 MBd, accommodating various network configurations. Connectivity is achieved via a 9-pin D-sub connector, with pin assignments adhering to IEC 61158 specifications. Bus termination is not integrated; it must be implemented using a suitable PROFIBUS connector equipped with switchable terminating resistors. The module allows for station addresses between 1 and 125, which can be set via DIP switches, and a failsafe address (F address) ranging from 1 to 1022, also configurable through DIP switches. The GSD file for the DFS11B is named SEW\_6009.GSD, and the DP ID number is 6009 (hex) = 24585 (dec). Diagnostics data includes standard diagnostics of 6 bytes. The module operates with an external voltage supply of DC 24 V (-15%, +20%), with a maximum current draw of 200 mA and a maximum power consumption of 3.4 W. For detailed installation and configuration instructions, refer to the "DFS11B PROFIBUS DP-V1 with PROFIsafe Fieldbus Interface" manual.