EtherCAT Splitter
SEC 171

with 1 EtherCAT IN
7 EtherCAT OUT

With its 7 EtherCAT OUT ports, the EtherCAT splitter enables the creation of an EtherCAT bus system in line, tree and star structure.
The EtherCAT IN port is the input port for the splitter. Additional EtherCAT splitters and EtherCAT modules can be connected to the EtherCAT OUT ports.
The splitter is operated with +24 V supply voltage. It has the S-DIAS design and can be mounted on a top-hat rail together with S-DIAS modules.

Performance Data

Interfaces	1x EtherCAT IN (RJ45) 7x EtherCAT OUT (RJ45)	
Cable length	maximum 100 m between stations	
Propagation delay	ca. 1 µs per port	
Data transfer rate	100 Mbit/s	

Electrical Requirements

Supply voltage	+24 V DC ±20 % (SELV/PELV) UL: Class 2 or LVLC	
Protection class	III	
Current consumption of +24 V power supply	typically 125 mA internal electronics supply (all ports active)	maximum 160 mA internal electronics supply (all ports active)

Article Number and Miscellaneous

Article number	20-023-171	
Dimensions	50 x 104.2 x 72 mm (W x H x D)	
Standard	cULus (E247993)	
Approvals	CE	

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +55 °C	
Humidity	0-95 %, non-condensing	
Installation altitude above sea level	0-2000 m without derating > 2000 m up to a maximum of 5000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m	
Operating conditions	pollution degree 2	
Noise emission	≤ 70 dB	
EMC resistance	EN 61000-6-2 (industrial area)	
EMC noise generation	EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	3.5 mm from 5-8.4 Hz 1 g of 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g (147.15 m/s²)
Protection type	EN 60529	IP20