DATA SHEET

CM577

EtherCAT Communication Module

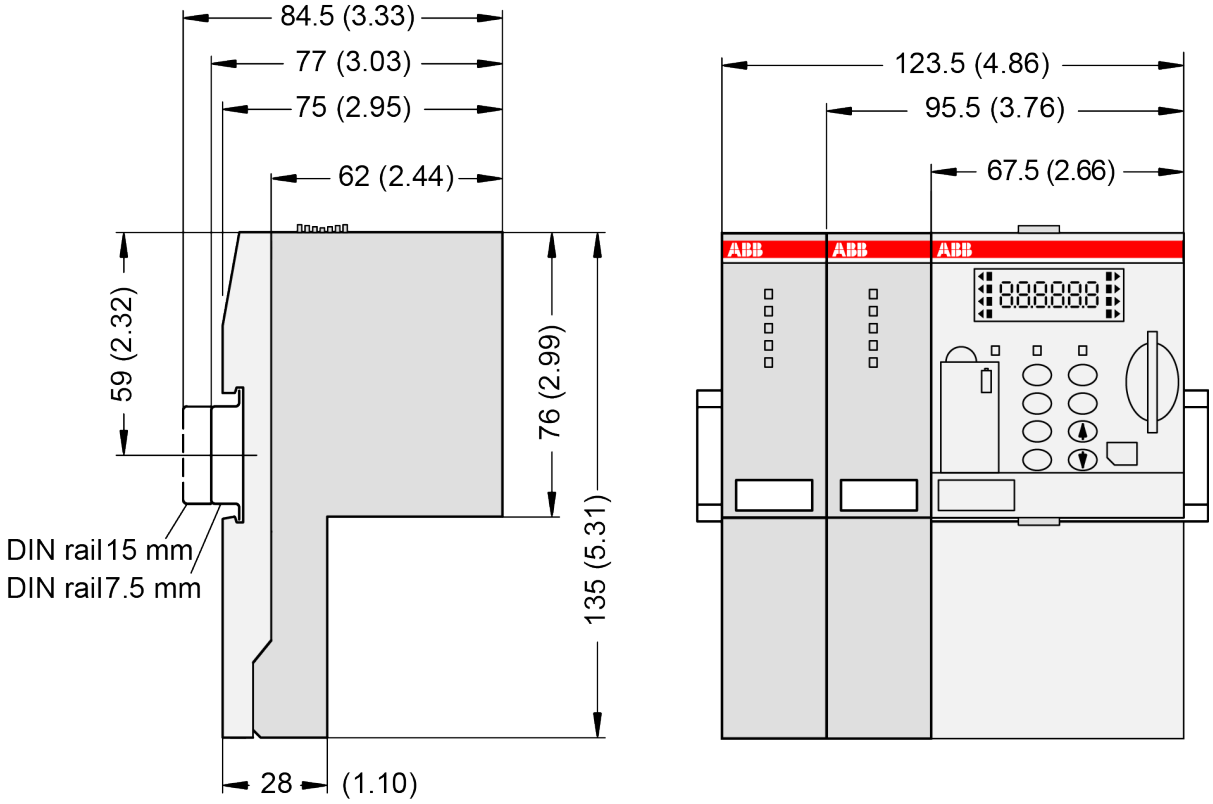


1 Ordering Data

Part No.	Description	Product Life Cycle Phase *)
1SAP 170 700 R0001	CM577-ETH, communication module Ethernet TCP/IP with integrated 2-port switch	Classic
1SAP 370 700 R0001	CM577-ETH-XC, communication module Ethernet TCP/IP with integrated 2-port switch, XC version	Classic

*) *For planning and commissioning of new installations use modules in Active status only.*

2 Dimensions



The dimensions are in mm and in brackets in inch.

3 Technical Data

The System Data of AC500 and S500 ↳ *Chapter 4 “System Data AC500” on page 3* are valid for standard version.

The System Data of AC500-XC ↳ *Chapter 5 “System Data AC500-XC” on page 7* are valid for the XC version.

Only additional details are therefore documented below.

Parameter	Value
Field bus	2 x Ethernet
Transmission rate	10 MBit/s or 100 MBit/s
Protocol	Ethernet TCP/IP, UDP/IP, Modbus TCP
Field bus connectors	2 x RJ45, with integrated 2-port switch
Processor	EC1
Usable CPUs	PM57x, PM58x, PM59x
Usable terminal bases	All TB5xx

Parameter	Value
Ambient temperature	see: System data AC500 ↳ *Chapter 4 “System Data AC500” on page 3*
Extended ambient temperature (XC version)	On request
Communication module interface	Dual-port memory, 8 kByte
Current consumption from 24 V DC power supply at the terminal base of the CPU	Typ. 65 mA
Internal power supply	Via the communication module interface of the terminal base
Internal RAM memory (EC1)	256 kByte
External RAM memory	2 x 128 kByte (for webserver option)
External flash memory	512 kByte (firmware), 2 MByte (for webserver option)
State display	PWR, RDY, RUN, STA, ERR, 2 x LINK, 2 x ACT
Ethernet	10/100 Base-TX, internal switch, 2 x RJ45 socket
LED indication	state indication via 5 LEDs
Station identification	rotary switch, 0...255 (00...FFhex)
Transmission mode	Half or full-duplex operation, adjustable
Transmission rate	10 or 100 Mbit/s, adjustable
Auto negotiation	optionally adjustable
MAC address	optionally configurable
Ethernet frame types	Ethernet II (RFC 894), IEEE 802.3 receive only (RFC 1042)
Weight	Ca. 150 g

4 System Data AC500

4.1 Environmental Conditions

Table 1: Process and supply voltages

Parameter		Value
24 V DC		
	Voltage	24 V (-15 %, +20 %)
	Protection against reverse polarity	Yes
120 V AC		
	Voltage	120 V (-15 %, +10 %)
	Frequency	50/60 Hz (-6 %, +4 %)
230 V AC		
	Voltage	230 V AC (-15 %, +10 %)
	Frequency	50/60 Hz (-6 %, +4 %)
120...240 V AC wide range supply		
	Voltage	120...240 V (-15 %, +10 %)
	Frequency	50/60 Hz (-6 %, +4 %)