DATA SHEET

CM578

CANopen Communication Module

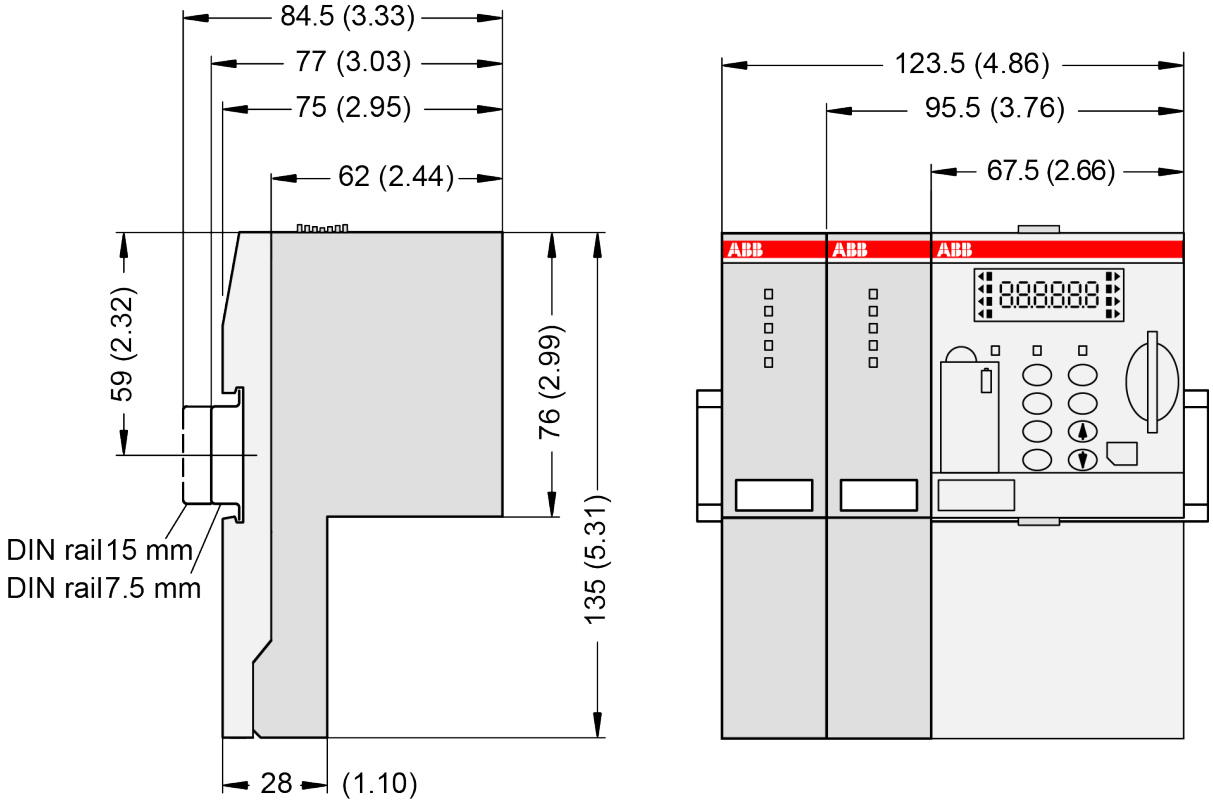


1 Ordering Data

Part No.	Description	Product Life Cycle Phase *)
1SAP 170 800 R0001	CM578-CN, communication moduleCANopen master	Classic
1SAP 370 800 R0001	CM578-CN-XC, communication module CANopen master, 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	CANopen
Transmission rate	10 kBit/s to 1 MBit/s
Processor	EC1, 160 pins
Ambient temperature	see: System data AC500 ↳ *Chapter 4 “System Data AC500” on page 3*
Extended ambient temperature (XC version)	On Request
Usable CPUs	PM57x, PM58x, PM59x
Usable terminal bases	All TB5xx

Parameter	Value
Field bus connector	Pluggable connector COMBICON, 5-pin
Internal power supply	Via the communication module interface of the terminal base
Communication module interface	Dual-port memory, 8 kByte
Current consumption from 24 VDC power supply at the terminal base of the CPU	Typ. 50 mA
Current consumption over the communication module bus	Typ. 290 mA
Internal RAM memory (EC1)	256 kByte
External RAM memory	-
External Flash memory	512 kByte (firmware)
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 %)
Allowed interruptions of power supply, according to EN 61131-2		
	DC supply	Interruption < 10 ms, time between 2 interruptions > 1 s, PS2
	AC supply	Interruption < 0.5 periods, time between 2 interruptions > 1 s

NOTICE!
Exceeding the maximum power supply voltage for process or supply voltages could lead to unrecoverable damage of the system. The system could be destroyed.

NOTICE!

Improper voltage level or frequency range which cause damage of AC inputs:

– AC voltage above 264 V
– Frenquency below 47 Hz or above 62.4 Hz

NOTICE!

Improper connection leads cause overtemperature on terminals.

PLC modules may be destroyed by using wrong cable type, wire size and cable temperature classification.

Parameter		Value
Temperature		
	Operating	0 °C ... +60 °C: Horizontal mounting of modules. 0 °C ... +40 °C: Vertical mounting of modules. Output load reduced to 50 % per group.
	Storage	-40 °C ... +70 °C
	Transport	-40 °C ... +70 °C
Humidity		Max. 95 %, without condensation
Air pressure		
	Operating	> 800 hPa / < 2000 m
	Storage	> 660 hPa / < 3500 m
Ingress protection		IP20

4.2 Creepage Distances and Clearances

The creepage distances and clearances meet the requirements of the overvoltage category II, pollution degree 2.

4.3 Insulation Test Voltages, Routine Test

According to EN 61131-2

230 V circuits against other circuitry	2500 V	1.2/50 µs
120 V circuits against other circuitry	1500 V	1.2/50 µs
120 V to 240 V circuits against other circuitry	2500 V	1.2/50 µs
24 V circuits (supply, 24 V inputs/outputs, analogue inputs/outputs), if they are electrically isolated against other circuitry	500 V	1.2/50 µs
COM interfaces, electrically isolated	500 V	1.2/50 µs