

# Modular PLC, 24 V DC, 8DI, 6DO, ethernet, RS232, CAN, 4MB, web Server

Powering Business Worldwide\*

Part no. XC-CPU202-EC4M-8DI-6DO-XV Article no. 134238

Catalog No. XC-CPU202-EC4M-XV

# **Delivery program**

Digital input count			Digital:8; of which usable as interrupt: 6
Quantity of outputs			Transistor: 6
Built-in interfaces			CANopen®/easyNet RS232 Ethernet 100Base-TX/10Base-T USB Host
Instructions			expandable with $\rightarrow$ expansions XI/OC Only on connection with $\rightarrow$ XI/OC rack
User memory			4 MByte
Cycle time for 1 k of instructions (Bit, Byte)	1	ms	0.025
Memory			
Application/marker/retain data		KByte	4 MB/16 KB/32 KB
Integrated Web server			yes
Information about equipment supplied			The following accessory equipment is required: terminal clamps, module rack, battery

### **Technical data**

#### General

		IEC/EN 61131-2 EN 50178
	°C	0 - +55
9	°C	-25 - +70
		Horizontal
	%	10 - 95
	hPa	795 - 1080
		10 - 57 Hz ±0.075 mm 57 - 150 Hz ±1.0 g
	g	15 Shock duration 11 ms
		11/2
		IP20
$U_{\text{imp}}$	V	850
		EN 61000-6-4, Class A
		EN 61000-6-2
		normally 5 years
	kg	0.23
		Plug-in terminal block
	$\text{mm}^2$	
	mm <sup>2</sup>	0.5 - 1.5
	$\text{mm}^2$	0.5 - 2.5
	mm <sup>2</sup>	0.34 - 1.0
	$\text{mm}^2$	0.14 - 1.0
	ms	10
	S	1
		8 °C  % hPa  g  Uimp  V  kg  mm²  mm²  mm²  mm²  mm²

· orror cuppry		
Duration of mains dip	ms	10
Repetition rate	s	1
Input voltage	V DC	24
Admissible range	V DC	20.4 - 28.8
Input rating	W	max. 33

Residual ripple		%	$\leq_5$
Maximum power loss	$P_{\nu}$	W	6
Note on heat dissipation			Without local I/O
Overvoltage protection			Yes
Protection against polarity reversal			Yes
Mains filter			Yes
Inrush current		x I <sub>n</sub>	No limitation (limited only by upstream 24 V DC power supply unit)
Signal module output voltage			
Rated value		V DC	5
Output current		Α	3.2
Short-circuit rating			Yes
Electrically isolated from the supply voltage			No
CPU			
Processor			ARM 532 MHz
Memory			
Program code/program data			4 MB/512 kByte
Marker/retentive data		KByte	16/64
Cycle time for 1 k of instructions (Bit, Byte)		ms	< 0.025
Interfaces			
Ethernet			
Data transfer rate		MBit/s	10/100 Autodetect
Connection type			RJ45
Potential isolation			No
Serial interface (RS232) without handshake lines			
Data transfer rate		kbit/s	max. 115.2
Connection technique			RJ45
Potential isolation			No
USB interface			2.0
CANopen®			
Maximum data transfer rate		MBit/s	1
Potential isolation			Yes
Device profile			To DS 301 V4
PDO type			Asyn., cyc., acyc.
Connection			Plug-in terminal block
Bus terminating resistors			internal
Stations		Number	max. 126
Watchdog			Yes
RTC (real-time clock)			Yes
Power supply of local inputs/outputs (24 V <sub>0</sub> /0 V <sub>0</sub> )			
Input voltage		V DC	24
Voltage range		V DC	19.2 - 30, note polarity
Potential isolation			
Power supply against CPU voltage			Yes
Power supply against inputs/outputs			No
Status indication			LED
Terminations			Plug-in terminal block
Overvoltage protection			Yes
Protection against polarity reversal			Yes
Digital inputs			
Input current per channel at nominal voltage		mA	Normally 3.5
Power loss per channel			Normally 85 mW
Voltage level to IEC/EN 61131-2			
Limit value type 1			Low < 5 V DC, high > 15 V DC
Input delay			
Off → On		ms	Normally 0.1
On → Off		ms	Normally 0.1

Inputs	Numbe	er 8, 2 of which programmable as 50 kHz counters, 2 as interrupt inputs, 1 as incremental input
Channels with the same reference potential	Ωty.	8
Status indication		LED
Digital outputs		
Channels	Numbe	er 6
Power loss per channel	W	0.08
QX0.0 to QX0.3	Α	0.5
Output delay		
Off → On		Normally 0.1 ms
$0n \rightarrow 0ff$		Normally 0.1 ms
Channels with the same reference potential	Qty.	6
Status indication		LED
Switching capacity		IEC/EN 60947-5-1, utilization category DC-13
duty factor	% DF	100
Utilization factor	g	1

# Design verification as per IEC/EN 61439

•			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	0
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	0
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	6
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature min.		°C	0
Operating ambient temperature max.		°C	55
EC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects $$			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			Meets the product standard's requirements.
10.4 Clearances and creepage distances			Meets the product standard's requirements.
10.5 Protection against electric shock			Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components			Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections			Is the panel builder's responsibility.
10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material			Is the panel builder's responsibility.
10.10 Temperature rise			The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating			Is the panel builder's responsibility.
10.12 Electromagnetic compatibility			Is the panel builder's responsibility.
10.13 Mechanical function			The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 6.0**

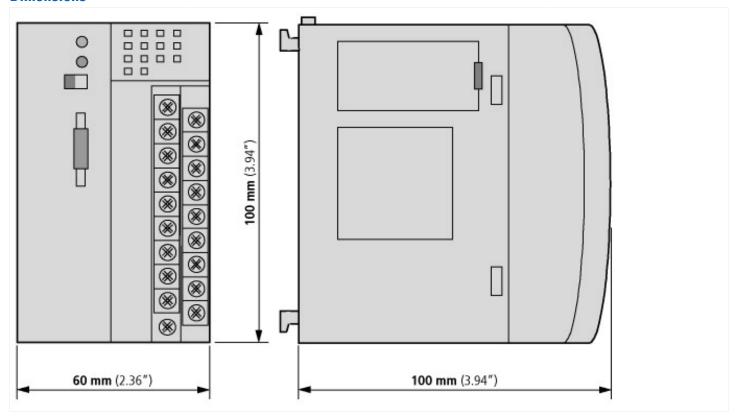
PLC's (EG000024) / PLC CPU-module (EC000236)

Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / SPS basic equipment (ecl@ss8.1-27-24-22-07 [AKE530011])

Simply verlage AC GB RP         V         PA 7-88           Simply verlage AC GB RP         V         PA 7-88           Simply verlage AC GB RP         V         PA 7-88           Number of relay valupted         C         D           Number of relay valupted         PA 7-88           Max. number of addressable analogue VD parts         BIG         D           Mach cumber of addressable depaid ID-parts         BIG         D           Model         PO-254-800         Model         PA           Model of INV-inverfects and furth Entered         ID         B         C           Number of INV-inverfects ID-22	Supply voltage AC 50 Hz	1	V	0 - 0
Supply voltage 100         V 2014         2014<		,	V	0 - 0
Voltage Cype of Supplies Voltage         CC           Number of ridey audusta         100           Max. number of inswerterius         100           Max. number of addressable sanistique Qinparts         100           Max. number of addressable sanistique Qinparts         100           Modelar         0           Modelar         0           Modelar         0           Modelar         0           Manuface of MV interfaces Report Services         0           Number of MV interfaces REPATZ         0           Number of MV interfaces Reparded         0           Number of MV interfaces Reparded         0           Number of MV interfaces Waters         0           Number of MV interfaces Case and ITY         0		,	V	20.4 - 28.8
Nember of relay outpuids         0           Max. number of activatable analogue I/O-ports         180           Max. number of activatable analogue I/O-ports         787           Max. number of activatable depaid I/O-ports         782           Max. District of State (I) Entery operation         ma         0.05           Number of HWH-interfaces Industrial Element         1         1           Number of HWH-interfaces IREMENT         0         0           Number of HWH-interfaces Writerial         0         0           Number of HWH-interfaces Writerial         0         0           Number of HWH-interfaces Writerial         0         0 <td< td=""><td></td><td></td><td></td><td>DC</td></td<>				DC
Mon. number of addressable inalique IO-ports         67           Mon. number of addressable inglial IO-ports         67           Model         600           Processing time IIII, bliary coveration)         ms         0.055           Number of HiV-interfaces industrial Element         1         1           Number of HiV-interfaces PROFIDET         6         0           Number of HiV-interfaces RS-822         6         0           Number of HiV-interfaces RS-828         6         0           Number of Midrich Interfaces RS-828         6         0           Number of All Princer Hive RS-828         6         0           Number of All Princer Hive RS-828         6         0           Number of All Princer Hive RS-828         6         0           Number of Hive Hive RS-82				0
Name unmber of addressable digital VD-parts         Model         Model           Model         Model         Model           Model         Model         Model           Processing dine KL, Shany operation         ms         0.25           Number of MV-interfaces informated         0         1           Number of MV-interfaces PRUPINET         0         0           Number of MV-interfaces RS-22         0         0           Number of MV-interfaces SR-348         0         0           Number of MV-interfaces swall TV         0         0           Number of MV-interfaces SWales         0         0           Number of MV-interfaces Wireless         0         0           Number of MV-interfaces Wireless         0         0           Number of MV-interfaces Wireless         0         0           Number of digital injust         0         0           Number of digital injust         0         0           Number of digital injust         0         0           With a price in interface         0         Na           Supporting protecol for CNI         0         Na           Supporting protecol for PROFISE         0         Na           Supporting protecol for ENX	Max. number of time switches			1000
Mondamer of IV- Interry operation)   ms   0.025	Max. number of addressable analogue I/O-ports			180
Processing time ITIS, binary operation	Max. number of addressable digital I/O-ports			974
Number of HWF-interfaces PROINTEY         0           Number of HWF-interfaces PROINTEY         0           Number of HWF-interfaces RS-222         0           Number of HWF-interfaces RS-422         0           Number of HWF-interfaces RS-423         0           Number of HWF-interfaces RS-424         0           Number of HWF-interfaces RS-221         0           Number of HWF-interfaces RS-221         0           Number of HWF-interfaces States         0           Number of HWF-interfaces Wiles         0           Number of HWF-interfaces Wiles </td <td>Model</td> <td></td> <td></td> <td>Modular</td>	Model			Modular
Number of HW-interfaces RPGFINET         0           Number of HW-interfaces RS-322         0           Number of HW-interfaces RS-435         0           Number of HW-interfaces serial TTY         0           Number of HW-interfaces userial TTY         0           Number of HW-interfaces userial TTY         0           Number of HW-interfaces USB         0           Number of HW-interfaces Wriess         0           Number of HW-interfaces wries         0           Number of July interfaces wries         0           With optical interface         0           Supporting protocol for TCP/IP         Via           Supporting protocol for TCP/IP         Via           Supporting protocol for WW-ITERUS         No           Supporting protocol for WW-ITERUS         No           Supporting protocol for WW-ITERUS         No           Supporting protocol for Duc-Well         No           Supporting protoco	Processing time (1K, binary operation)		ms	0.025
Number of HW-interfaces RS-222         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces sorial TTV         0           Number of HW-interfaces sorial TTV         0           Number of HW-interfaces parallal         0           Number of HW-interfaces parallal         0           Number of HW-interfaces byteries         0           Number of analogue outputs         0           Number of analogue outputs         0           Number of digital inputs         0           Supporting protocal for CPUP         vs           Supporting protocal for FRORBUS         vs           Supporting protocal for FRORBUS         No           Supporting protocal for MUTERUS         No           Supporting protocal for Supporting protocal for Duta Highway         No           Supporting protocal for Duta HUTERUS         No           Supporting protocal for Duta HUTERUS </td <td>Number of HW-interfaces industrial Ethernet</td> <td></td> <td></td> <td>1</td>	Number of HW-interfaces industrial Ethernet			1
Number of HVP-interfaces RS-425   Number of HVP-interfaces RS-456   Number of HVP-interfaces RS-456   Number of HVP-interfaces serial TVY   Number of HVP-interfaces serial TVY   Number of HVP-interfaces serial TVY   Number of HVP-interfaces parallel   Number of HVP-interfaces parallel   Number of HVP-interfaces parallel   Number of HVP-interfaces subre   Number of analogue outputs   Number of analogue inputs   Number of analogue inputs   Number of analogue inputs   Number of digital outputs   Number of Mighial outputs   Number	Number of HW-interfaces PROFINET			0
Number of HW-interfaces RS-485         0           Number of HW-interfaces parallel         0           Number of HW-interfaces parallel         0           Number of HW-interfaces parallel         0           Number of HW-interfaces Wreless         0           Number of HW-interfaces Wreless         0           Number of HW-interfaces Wreless         0           Number of digital outputs         0           Number of digital outputs         6           With optical interface         No           Number of Jight July July         6           With optical interface         No           Supporting protocol for TCP/IP         Yes           Supporting protocol for TCP/IP         Yes           Supporting protocol for PROFIBUS         No           Supporting protocol for PROFIBUS         No           Supporting protocol for MRUS         No           Supporting protocol for MRUS         No           Supporting protocol for MRUS         Yes           Supporting protocol for DeviceNe         No           Supporting protocol for DeviceNe         Yes           Supporting protocol for DeviceNe         No           Supporting protocol for PROFIBET fo         No           Supporting protocol for PROFIBET fo	Number of HW-interfaces RS-232			1
Number of HW-interfaces serial TTY         1           Number of HW-interfaces SPATIBLE         0           Number of HW-interfaces Wireless         0           Number of HW-interfaces Wireless         0           Number of HW-interfaces Wireless         0           Number of analogue outputs         0           Number of analogue outputs         0           Number of digital outputs         8           Number of digital outputs         8           With optical instructor         No           Supporting protection of CPUP         No           Supporting grotaced for PROBBUS         Yes           Supporting protected for FROBBUS         No           Supporting protected for ASI         No           Supporting protected for ASI         No           Supporting protected for MOBUS         Yes           Supporting protected for MOBUS         Yes           Supporting protected for Debuglish         No           Supporting protected for MOBUS         Yes           Supporting protected for Debuglish         No           Supporting protected for PROFINET GA         No           Supporting protected for PROFINET GA         No           Supporting protected for PROFINET GA         No           Supporting prote	Number of HW-interfaces RS-422			0
Number of HW-interfaces parallel         0           Number of HW-interfaces parallel         0           Number of HW-interfaces parallel         1           Number of HW-interfaces parallel         2           Number of Interfaces (Mirelass)         2           Number of analogue outputs         0           Number of digital injusts         8           Number of digital injusts         6           Number of digital injusts         6           Number of digital injusts         8           Number of digital injusts         8           Number of digital injusts         8           Number of Digital outputs         8           Supporting protocol for CROR         No           Supporting protocol for CROR         9           Supporting protocol for CROR         No           Supporting protocol for KNX         No           Supporting protocol for No         No           Supporting protocol for No         No           Supporting protocol for No         No           Supporting protocol for Debi-diffy         No           Supporting protocol for Debi-diffy         No           Supporting protocol for SECOS         No           Supporting protocol for FORFILET EA         No	Number of HW-interfaces RS-485			0
Number of HW-interfaces parallel         0           Number of HW-interfaces other         0           Number of HW-interfaces other         1           Number of analogue imputs         0           Number of digital imputs         8           Number of digital imputs         6           Number of digital imputs         6           With Opicial inferface         No           Supporting protected for TCP/IP         Yes           Supporting protected for FRBRUS         Yes           Supporting protected for FRBRUS         No           Supporting protected for MOBBUS         No           Supporting protected for MOBBUS         No           Supporting protected for Dual-Highway         No           Supporting protected for Dual-Highway         No           Supporting protected for SUDICEN         No           Supporting protected for SUDICENT         No           Supporting protected for	Number of HW-interfaces serial TTY			0
Number of HW-interfaces Wireless         0           Number of HW-interfaces other         1           Number of analogue utputs         0           Number of digital inputs         8           Number of digital outputs         8           Number of digital outputs         8           Number of digital outputs         8           With optical interface         No           Supporting protocol for TCP/IP         Yes           Supporting protocol for TCP/IP         Yes           Supporting protocol for INTERBUS         No           Supporting protocol for INTERBUS         No           Supporting protocol for MNX         No           Supporting protocol for MNX         No           Supporting protocol for Dual-Highway         No           Supporting protocol for Dual-Highway         No           Supporting protocol for Dual-Highway         No           Supporting protocol for PDRINET IO         No           Supporting protocol for PDRINET IO         No           Supporting protocol for FDRINET IOS         No           Supporting protocol for FDRINET EBA         No           Supporting protocol for FDRINET EBA         No           Supporting protocol for FDRINET EBA         No           Supporting proto	Number of HW-interfaces USB			1
Number of HW-interfaces other         1           Number of analogue outputs         0           Number of fanishgue inputs         8           Number of digital inputs         8           Number of digital interface         No           With optical interface         No           Supporting protocol for TCP/IP         Yes           Supporting protocol for TCP/IP         Yes           Supporting protocol for ANA         Yes           Supporting protocol for ANA         No           Supporting protocol for ANA         No           Supporting protocol for ANY         No           Supporting protocol for MOBBUS         Yes           Supporting protocol for MOBBUS         Yes           Supporting protocol for Duta-Highway         No           Supporting protocol for Duta-Highway         No           Supporting protocol for Duta-Highway         No           Supporting protocol for PoliceNeW         No           Supporting protocol for FROFINET CBA         No           Supporting protocol for FromAlogue         No           Supporting protocol	Number of HW-interfaces parallel			0
Number of analogue outputs         0           Number of digital inputs         0           Number of digital inputs         3           Number of digital inputs         6           Number of digital inputs         6           With optical infurface         No           Supporting protocol for TCPIP         Yes           Supporting protocol for FORHBUS         Yes           Supporting protocol for NTERBUS         No           Supporting protocol for NTERBUS         No           Supporting protocol for MNX         No           Supporting protocol for MNX         No           Supporting protocol for MNX         No           Supporting protocol for Data Highway         No           Supporting protocol for PNOFINET (SA         No           Supporting protocol for PNOFINET (SA         No           Supporting protocol for PROFINET (SA         No           Supporting protocol for PROFINET (SA         No           Supporting protocol for PROFINET (SA         No           Supporti	Number of HW-interfaces Wireless			0
Number of analogue inputs         0           Number of digital inputs         8           Number of digital outputs         6           With optical inputs         6           With optical inputs         6           With optical inputs         6           Supporting protocol for TCP/IP         7es           Supporting protocol for FROFIBUS         7es           Supporting protocol for ANA         6           Supporting protocol for MIXEBUS         8           Supporting protocol for KNX         8           Supporting protocol for KNX         8           Supporting protocol for MODBUS         8           Supporting protocol for MODBUS         8           Supporting protocol for ENCYN         8           Supporting protocol for MODBUS         8           Supporting protocol for ENCYN         8           Supporting protocol for MODBUS         8           Supporting protocol for ENCYN         9           Supporting protocol for MODBUS         8           Supporting protocol for ENCYN         9           Supporting protocol for ENCYN         9           Supporting protocol for ENCYN         9           Supporting protocol for FROFINET IO         9           Supporting	Number of HW-interfaces other			1
Number of digital inputs  Number of digital outputs  With optical interface  Supporting protocol for TCP/IP  Supporting protocol for PROFIBUS  Supporting protocol for EAN  Supporting protocol for INTERBUS  Supporting protocol for INTERBUS  Supporting protocol for NIXERBUS  Supporting protocol for Data-Highway  Supporting protocol for Data-Highway  Supporting protocol for DeviceNet  Supporting protocol for EUCONET  Supporting protocol for EUCONET  Supporting protocol for FBOFINET CBA  Supporting protocol for Salentoval Parket  Supporting protocol for Salento	Number of analogue outputs			0
Number of digital outquis  With optical interface  Supporting protocol for PCPIP  Supporting protocol for PCPIBUS  Supporting protocol for PCPIBUS  Supporting protocol for CAN  Supporting protocol for INTERBUS  Supporting protocol for MINERBUS  Supporting protocol for DEVICENBUS  Supporting protocol for ENDERICENBUS  Supporting protocol for PROFINET IO  Supporting protocol for SERCOS  Supporting protocol for FRORDINET CBA  Supporting protocol for Salety Salety  Supporting protocol for Salety S	Number of analogue inputs			0
With optical interface         No           Supporting protocol for TCP/IP         Yes           Supporting protocol for PROPIBUS         Yes           Supporting protocol for CAN         Yes           Supporting protocol for ASI         No           Supporting protocol for ASI         No           Supporting protocol for KNX         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for LON         No           Supporting protocol for LON         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for SUCONET         Yes           Supporting protocol for SUCONET         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for FERCOS         No           Supporting protocol for FERCOS         No           Supporting protocol for EtherNet/IP         Yes           Supporting protocol for AS-Interface Safety at Work         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET CBA         No <td>Number of digital inputs</td> <td></td> <td></td> <td>8</td>	Number of digital inputs			8
Supporting protocol for TCP/IP         Yes           Supporting protocol for PROFIBUS         Yes           Supporting protocol for CAN         Yes           Supporting protocol for ASI         No           Supporting protocol for KNX         No           Supporting protocol for MODBUS         Yes           Supporting protocol for Data-Highway         No           Supporting protocol for DeviceNet         No           Supporting protocol for SUCONET         Yes           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for Fundation Fieldbus         No           Supporting protocol for DeviceNet Safety at Work         No           Supporting protocol for DeviceNet Safety at Work         No           Supporting protocol for PROFISafe         No           Supporting protocol for PROFISafe         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for SafetyBUS p         No      <	Number of digital outputs			6
Supporting protocol for PROFIBUS         Yes           Supporting protocol for CAN         Yes           Supporting protocol for MTERBUS         No           Supporting protocol for ASI         No           Supporting protocol for KNX         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for SUCONET         Yes           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET BA         No           Supporting protocol for For SERGS         No           Supporting protocol for For PROFINET BA         No           Supporting protocol for Saf	With optical interface			No
Supporting protocol for CAN         Yes           Supporting protocol for INTERBUS         No           Supporting protocol for ASI         No           Supporting protocol for KNX         No           Supporting protocol for MODBUS         Yes           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for SUCONET         Yes           Supporting protocol for SUCONET         No           Supporting protocol for PROFINET IO         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for Facility or Facility or Facility         No           Supporting protocol for Facility or Facility         No           Supporting protocol for EtherNet/IP         Yes           Supporting protocol for EtherNet/IP         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for PROFINET GBA         No           Supporting protocol for EtherNet/IP         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for PROFINET         No	Supporting protocol for TCP/IP			Yes
Supporting protocol for INTERBUS       No         Supporting protocol for ASI       No         Supporting protocol for KNX       No         Supporting protocol for MODBUS       Yes         Supporting protocol for Data-Highway       No         Supporting protocol for DeviceNet       No         Supporting protocol for SUCONET       Yes         Supporting protocol for PROFINET IO       No         Supporting protocol for PROFINET IO       No         Supporting protocol for SERCOS       No         Supporting protocol for Foundation Fieldbus       No         Supporting protocol for EtherNet/IP       Yes         Supporting protocol for DeviceNet Safety at Work       No         Supporting protocol for DeviceNet Safety       No         Supporting protocol for DeviceNet Safety       No         Supporting protocol for INTERBUS-Safety       No         Supporting protocol for PROFIsafe       No         Supporting protocol for SafetyBUS p       No         Supporting protocol for other bus systems       Yes         Radio standard WLAN 802.11       No	Supporting protocol for PROFIBUS			Yes
Supporting protocol for ASI Supporting protocol for MODBUS Supporting protocol for MODBUS Supporting protocol for Data-Highway Supporting protocol for Data-Highway Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for SUCONET Supporting protocol for PROFINET IO Supporting protocol for PROFINET US Supporting protocol for SERCOS Supporting protocol for Sundation Fieldbus Supporting protocol for SerCOS Supporting protocol for DeviceNet Safety Supporting protocol for PROFIsafe Supporting protocol for DeviceNet Safety Supporting protocol for SerCOS Supporting protocol	Supporting protocol for CAN			Yes
Supporting protocol for KNX Supporting protocol for MODBUS Supporting protocol for Deta-Highway Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for SUCONET Supporting protocol for PROFINET IO Supporting protocol for PROFINET OBA Supporting protocol for PROFINET GBA Supporting protocol for FROFINET GBA Supporting protocol for Fundation Fieldbus Supporting protocol for Fundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety Supporting protocol for INTERBUS-Safety Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for SafetyBUS p Supporting protocol for Cher bus systems Radio standard Bluetooth Radio standard GPRS Supporting protocol for SafetyBUS p Supporting protocol for Cher bus systems Radio standard GPRS Supporting protocol for SafetyBUS p Sup	Supporting protocol for INTERBUS			No
Supporting protocol for MODBUS  Supporting protocol for Data-Highway  Supporting protocol for DeviceNet  Supporting protocol for SUCONET  Supporting protocol for SUCONET  Supporting protocol for PROFINET IO  Supporting protocol for PROFINET BA  Supporting protocol for PROFINET BA  Supporting protocol for FROFINET CBA  Supporting protocol for FROFINET CBA  Supporting protocol for FROFINET CBA  Supporting protocol for Fundation Fieldbus  Supporting protocol for Fundation Fieldbus  Supporting protocol for EtherNet/IP  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  Supporting protocol for INTERBUS-Safety  Supporting protocol for INTERBUS-Safety  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Supporting protocol for SafetyBUS p  Supporting protocol for Other bus systems  Radio standard Bluetooth  Radio standard GPRS  No  Radio standard GPRS	Supporting protocol for ASI			No
Supporting protocol for Data-Highway Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for SUCONET Supporting protocol for LON Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Fundation Fieldbus Supporting protocol for Fundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for Serence Supporting protocol for Serence Supporting protocol for DeviceNet Safety at Work Supporting protocol for DeviceNet Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for Serence Supporting protocol for Serence Supporting protocol for SafetyBUS p Supporting protocol for Other bus systems Supporting protocol for other bus systems Radio standard Bluetooth Radio standard GPRS Supporting Protocol for SafetyBUS p Supporting protocol for Other Dus systems Radio standard GPRS Supporting protocol for Other Dus SafetyBUS p Supporting protocol for Other Dus Systems Radio standard GPRS Supporting protocol for Other Dus Systems Radio standard GPRS Supporting protocol for Other Dus Systems Radio standard GPRS Supporting protocol for Other Dus Systems Radio standard GPRS	Supporting protocol for KNX			No
Supporting protocol for DeviceNet Supporting protocol for SUCONET Supporting protocol for LON Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Fundation Fieldbus Supporting protocol for Fundation Fieldbus Supporting protocol for Fundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-Interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFISafe Supporting protocol for PROFISafe Supporting protocol for SafetyBUS p Supporting protocol for Other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS  No	Supporting protocol for MODBUS			Yes
Supporting protocol for SUCONET Supporting protocol for LON Supporting protocol for PROFINET IO Supporting protocol for PROFINET CBA Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Supporting protocol for AS-interface Safety at Work Supporting protocol for DeviceNet Safety Supporting protocol for INTERBUS-Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for SafetyBUS P Supporting protocol for Other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 Radio standard GPRS  No	Supporting protocol for Data-Highway			No
Supporting protocol for PROFINET IO Supporting protocol for PROFINET USA Supporting protocol for PROFINET CBA No Supporting protocol for SERCOS Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus No Supporting protocol for EtherNet/IP Yes Supporting protocol for AS-Interface Safety at Work No Supporting protocol for DeviceNet Safety No Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 No Radio standard GPRS No	Supporting protocol for DeviceNet			No
Supporting protocol for PR0FINET IO Supporting protocol for PR0FINET CBA Supporting protocol for SERCOS No Supporting protocol for Foundation Fieldbus Supporting protocol for Foundation Fieldbus Supporting protocol for EtherNet/IP Yes Supporting protocol for AS-Interface Safety at Work No Supporting protocol for DeviceNet Safety No Supporting protocol for INTERBUS-Safety No Supporting protocol for PR0FIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems Radio standard Bluetooth Radio standard WLAN 802.11 No Radio standard GPRS No	Supporting protocol for SUCONET			Yes
Supporting protocol for PROFINET CBA  Supporting protocol for SERCOS  Supporting protocol for Foundation Fieldbus  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Supporting protocol for EtherNet/IP  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  No  Supporting protocol for INTERBUS-Safety  No  Supporting protocol for PROFIsafe  No  Supporting protocol for SafetyBUS p  No  Supporting protocol for SafetyBUS p  No  Supporting protocol for other bus systems  Yes  Radio standard Bluetooth  Radio standard WLAN 802.11  Radio standard GPRS  No	Supporting protocol for LON			No
Supporting protocol for SERCOS  Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Yes  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  No  Supporting protocol for INTERBUS-Safety  No  Supporting protocol for INTERBUS-Safety  No  Supporting protocol for PROFIsafe  No  Supporting protocol for SafetyBUS p  No  Supporting protocol for other bus systems  Radio standard Bluetooth  Radio standard WLAN 802.11  Radio standard GPRS  No	Supporting protocol for PROFINET IO			No
Supporting protocol for Foundation Fieldbus  Supporting protocol for EtherNet/IP  Yes  Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  No  Supporting protocol for INTERBUS-Safety  No  Supporting protocol for PROFIsafe  No  Supporting protocol for SafetyBUS p  No  Supporting protocol for SafetyBUS p  No  Supporting protocol for other bus systems  Radio standard Bluetooth  Radio standard WLAN 802.11  Radio standard GPRS  No  No	Supporting protocol for PROFINET CBA			No
Supporting protocol for EtherNet/IP  Supporting protocol for AS-Interface Safety at Work  No Supporting protocol for DeviceNet Safety  No Supporting protocol for INTERBUS-Safety  No Supporting protocol for PROFIsafe  No Supporting protocol for SafetyBUS p  No Supporting protocol for other bus systems  Radio standard Bluetooth  Radio standard WLAN 802.11  Radio standard GPRS  Yes  No No	Supporting protocol for SERCOS			No
Supporting protocol for AS-Interface Safety at Work  Supporting protocol for DeviceNet Safety  No Supporting protocol for INTERBUS-Safety  No Supporting protocol for PROFIsafe  No Supporting protocol for SafetyBUS p  No Supporting protocol for other bus systems  Radio standard Bluetooth  Radio standard WLAN 802.11  Radio standard GPRS  No No No	Supporting protocol for Foundation Fieldbus			No
Supporting protocol for DeviceNet Safety  No Supporting protocol for INTERBUS-Safety  No Supporting protocol for PROFIsafe  No Supporting protocol for SafetyBUS p  No Supporting protocol for other bus systems  Yes Radio standard Bluetooth  Radio standard WLAN 802.11  No Radio standard GPRS  No No	Supporting protocol for EtherNet/IP			Yes
Supporting protocol for INTERBUS-Safety  No Supporting protocol for PROFIsafe  No Supporting protocol for SafetyBUS p  No Supporting protocol for other bus systems  Yes Radio standard Bluetooth  No Radio standard WLAN 802.11  No Radio standard GPRS  No	Supporting protocol for AS-Interface Safety at Work			No
Supporting protocol for PROFIsafe No Supporting protocol for SafetyBUS p No Supporting protocol for other bus systems Radio standard Bluetooth No Radio standard WLAN 802.11 No Radio standard GPRS No	Supporting protocol for DeviceNet Safety			No
Supporting protocol for SafetyBUS p  No Supporting protocol for other bus systems  Radio standard Bluetooth  Radio standard WLAN 802.11  No Radio standard GPRS  No	Supporting protocol for INTERBUS-Safety			No
Supporting protocol for other bus systems  Radio standard Bluetooth  Radio standard WLAN 802.11  No  Radio standard GPRS  No	Supporting protocol for PROFIsafe			No
Radio standard Bluetooth  Radio standard WLAN 802.11  No Radio standard GPRS  No	Supporting protocol for SafetyBUS p			No
Radio standard WLAN 802.11 No Radio standard GPRS No	Supporting protocol for other bus systems			Yes
Radio standard GPRS No	Radio standard Bluetooth			No
	Radio standard WLAN 802.11			No
	Radio standard GPRS			No
Radio standard GSM No	Radio standard GSM			No
Radio standard UMTS No	Radio standard UMTS			No
10 link master No	IO link master			No
System accessory Yes				
Redundancy	Redundancy			No

With display		No
Type of memory		RAM
Memory size	kByte	4000
Additional program memory possible		Yes
Rail mounting possible		Yes
Wall mounting/direct mounting		Yes
Front build in possible		No
Rack-assembly possible		No
Suitable for safety functions		No
Category according to EN 954-1		
SIL according to IEC 61508		None
Performance level acc. to EN ISO 13849-1		None
Appendant operation agent (Ex ia)		No
Appendant operation agent (Ex ib)		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Width	mm	60
Height	mm	100
Depth	mm	100

# **Dimensions**



### Additional product information (links)

Additional product information (miks)					
MN05003001Z-EN User manual Modular PLC X	C-CPU201(-XV), XC-CPU202XV				
MN05003001Z Handbuch Modular PLC XC-CPU201(-XV), XC-CPU202XV - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003001Z-DE.pdf				
MN05003001Z Handbuch Modular PLC XC-CPU201(-XV), XC-CPU202XV - Deutsch	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003001Z_DE.pdf				
MN05003001Z-EN User manual Modular PLC XC-CPU201(-XV), XC-CPU202XV - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003001Z-EN.pdf				
MN05003001Z-EN User manual Modular PLC XC-CPU201(-XV), XC-CPU202XV - English	ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003001Z_EN.pdf				