Technical data

Operating voltage (24V~, ⊥)	Safety extra-low voltage SELV or protection by extra-low voltage PELV		AC 24 V -15 % / +20% 48...63 Hz
	Half-wave load		Symmetric
Operating data	Processor	PXC3.E...-100A (V6)	Texas Instruments AM3352, 600 MHz
		PXC3.E7... (V5.1)	Atmel AT91SAM9G20, 400 MHz
	Memory	PXC3.E...-100A (V6)	512 MB SDRAM (DDR3) 512 MB NAND Flash
		PXC3.E7... (V5.1)	128 MB SDRAM (SDR) 256 MB NAND Flash

Power consumption	**Max. permissible input current AC 24 V (through terminals 5 and 6)**	**Total max. 10 A (Ext. fusing compulsory: max. T 10 A melting fuse or max. C 10 A circuit breaker)**
	Base load (without loading by modules and field devices)	8 VA / 0.33 A
	Island bus supply *)	30 VA / 1.25 A
	KNX PL-Link supply *) **)	12 VA / 0.50 A
	DALI supply *)	9 VA / 0.37 A

*) The bus supplies can be switched off via tool if not used.

**) The NX PL-Link supply MUST be switched off via tool if an external bus supply is used.

Transit power AC 24 V	TX-IO (island bus)	144 VA / 6 A
	KNX PL-Link: AC 24V (terminals 3, 4)	48 VA / 2 A
	AC 24 V / 6 A (terminals 7 and 8, for additional AC 24 V consumers)	144 VA / 6 A (only if the sum of 10 A at terminals 5 and 6 is not exceeded)

Fusing of the supply outputs for field supply	AC 24 V /2 A ↑ (KNX PL-Link, terminals 3 and 4)	PTC resistor, short-circuit proof
Caution! ⚠	AC 24 V ↑ (terminals 7 and 8)	No internal fusing
	Island bus conductor V~	T 10A fuse (slow, exchangeable)

Response to power / communication failure

- Energy reserve (supercap) to support real-time clock (3 days).
- Start-up time after power failure: approx. 90 s

Ethernet interface	Plug	2 x RJ45, screened
	Interface type	100BaseTX, IEEE 802.3 compatible
	Bit rate	10 / 100 Mbps, autosensing
	Protocol	BACnet over UDP/IP
USB interface	Plug	Type B (USB device)
	Data rate (USB 1.1)	12MBit/s
	Galvanic isolation of ⊥	No
	Protective circuit against surges and over current	Yes (balancing currents are limited, also in the GND conductor)

Island bus interface		
Communications	Interface type	Siemens specific protocol
DC output	Nominal voltage	DC 24V
	Max. current	600 mA (sufficient for typically 8 TX-I/O modules)
	Parallel switchable with 3 supply modules TXS1.12F10	For details, see: TX-I/O planning and installation manual, CM110562)
	Short-circuit proof, overload-proof	Self-resetting
	Protection	Short-circuit proof
Island bus connector on side	Protection against faulty wiring with AC 24 V	No electric protection. Use the terminal cover.
KNX PL-Link interface		
Communications	Interface type	KNX, galvanically separated
	Transceiver	TP-UART
	Baud rate	9.6 kbps
Bus power supply	Nominal voltage	DC 29 V
	Max. supply *Note: for devices with higher power requirement, use the output AC 24 V 2 A, see above.*	160 mA for max 32 devices with KNX PL-Link. Default: Auto detection; must be turned off via ABT if external bus supply is used. Up to 64 devices with KNX PL-Link can be operated using one or two external bus supplies.
	Protection	Short-circuit proof Protection against miswiring up to AC 24 V
DALI interface		
Communications	Interface type	DALI, galvanically separated
	Baud rate	1.2 kBit/s
	Insulation strength	Reinforced insulation for 230 V (1.5 kV) Suitable for installations in overvoltage category III (4 kV).
Bus power supply	Nominal voltage	DC 16 V
	Max. current	128 mA for max 64 DALI devices
	Protection	Short-circuit proof Upon power-on, AC 230 V bus voltage is recognized on terminals DA+ and DA–.
	NO protection against miswiring with AC 24 V or AC 230 V: Voltage between DA+ / DA+ or between DA– / DA– will destroy the DALI PCB!	
Wiring, topology, cable length, cross section	See installation manual TRA, CM111043.	
Connection terminals, plug-in	Construction type	Pluggable screw terminals
	Copper-wire or Cu-strand with wire end sleeve	1 x 0.6 mm dia. to 2.5 mm^2 (22 to 14 AWG) or 2 x 0.6 mm dia. to 1,0 mm^2 (22 to 18 AWG)
	Copper-strand without wire end sleeve	1 x 0.6 mm dia. to 2.5 mm^2 (22 to 14 AWG) or 2 x 0.6 mm∅ to 1.5 mm^2 (22 to 16 AWG)
	Screwdriver	Slot screws Screwdriver, size 1
	Max. tightening torque	0.6 Nm (0.44 lb-ft)

Assignment as per EN 60730	Operation of automatic controller	Type 1
	Degree of pollution	2
	Construction type	Protection class III
Housing protection standard	Protection type as per EN 60529	
	Front parts in the DIN section	IP30
	Terminal part	IP20
Ambient conditions	Operation	As per IEC 60721-3-3
	Climatic conditions	Class 3K5
	Temperature (see page 6)	-5 ... 50 / 45 °C (23...122/113 °F)
	Humidity	5…95% r.h.
	Mechanical conditions	Class 3M2
	Transport	As per IEC 60721-3-2
	Climatic conditions	Class 2K3
	Temperature	-25...70 °C (-13 ...158 °F)
	Humidity	5…95% r.h.
	Mechanical conditions	Class 2M2
Standards, directives and approvals	Product standard	EN 60730-1
	Product family standard	
	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)	EN 50491-2 EN 50491-3 EN 50491-5
	EU conformity (CE)	See CM1T9203xx *)
	Electromagnetic compatibility (EMC)	For use in residential, commercial and industrial environments
	RCM-conformity (EMC)	See CM1T9222en_C1 *)
	UL approbation	UL 916
	EAC Eurasian conformity	For all PXC3.E...-100A types

Meets the requirements for eu.bac certification (excepted PXC3.E16A-100A).
See product list on: http://www.eubaccert.org/licences-by-criteria.asp

License	Application		Control accuracy [K]
212196	Fan-Coil 4-pipe	Heating / Cooling	0.3 / 0.1

Environmental compatibility	The product environmental declaration CM1E9203 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal)	ISO 14001 (Environment) ISO 9001 (Quality)

*) The documents can be downloaded from http://siemens.com/bt/download.

Color	Housing	RAL 7035 (light-gray)
Dimensions	Housing as per DIN 43 880, see dimensions	
Weight Without / with packaging	PXC3.E7x....	349g / 392g
	PXC3.E7xA...	373g / 416g
	PXC3.E16A...	347g / 390g

Disposal

The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU (WEEE) and may not be disposed of as domestic waste.
Dispose of the devices via the proper channels.
Follow all local and currently applicable laws and regulations.