SIEMENS

Climatix™

S300 Heat Recovery Ventilation Controller

POS3.5715/100

S300 configurable OEM controller for HVAC controlling, switching and monitoring. Delivered with user interfaces, peripherals and pre-engineered applications, and optimized for heat recovery ventilation.

- Configurable controller with dedicated I/O mix
- Pre-engineered and tested ventilation application
- Modbus RTU communication
- BACnet / IP communication: BACnet profile ASC
- KNX PL-Link bus communication for room units and sensors
- USB interface with power supply for fast FW upgrade and WLAN stick
- Climatix IC for remote access, monitoring and predictive maintenance
- Configuration, parameter setting tool for OEM
- Commissioning app for installers
- End-user app for resident's operation
- I/O extension board with pressure sensors
- Plug-in terminal blocks and cabinet mounting

Features

The controller is configurable and is delivered with a pre-loaded, pre-engineered and fully tested application developed for heat recovery ventilation applications.

Inputs and outputs (I/Os)

The controller's I/O mix is dedicated for heat recovery ventilation (HRV).

10 inputs

- 4 analog inputs for temperature sensor (B1…B4)
- 2 digital inputs for galvanically isolated AC or DC 24 V (D1, D2)
- 1 multi-functional input for digital potential-free contacts and temperature sensors (X8)
- 2 multi-functional inputs for 0…10 V, 4…20 mA, digital, pulse, mutli-state (X1…X2)
- 1 multi-functional input for 0…10 V, 4…20 mA, digital, pulse, multi-state and temperature sensors (X3)

8 outputs

- 4 analog outputs for DC 0…10 V (A1…A4)
- 3 digital relay outputs (3 NO contacts, SPST) (Q1…Q3)
- 1 triac output AC 24…230 V (Y1)

Communication

The S300 control platform is IP-ready and comes with open communication protocols for flexible integration.

- BACnet communication over RJ45 Ethernet IP to connect to router for direct Internet connectivity, or to connect to WLAN gateway for communication using a mobile device
- USB connection for firmware up-/download with USB stick, or temporary WLAN stick for communication using a mobile device during commissioning using ABT Go
- 1 Modbus RTU master over RS485 for integration in building automation and control
- 2 Modbus RTU slaves over RS485 to communicate with peripherals
- KNX PL-Link bus to communicate with room units and sensors

I/O extensions with pressure sensors

The controller's I/Os can be extended with I/O extensions and sensors for bigger plants via Modbus master port.

POS9 (PCB variant)

- 2 air pressure sensors on PCB to measure absolute and differential pressure
- 1 Modbus RTU RS485 to communicate with the controller
- 2 multi-functional inputs: Digital, temperature sensors (X21) and digital 0…10-V (X22)
- 2 multi-functional outputs: DC 0…10-V and PWM (A21) and relay output (Q21)

QBM97 (variant with housing)

- 2 air pressure sensors 0…500…7000 Pa to measure absolute and differential pressure
- 1 Modbus RTU RS485 to communicate with the controller
- 2 multi-functional inputs for DC 0…10-V, Ni1000, Pt1000, NTC10k, LG-Ni1000 (NTC10k configured only for AI1 and 0-10 V configured only for AI2)
- 2 multi-functional outputs for DC 0…10-V (AO1/2)

Modbus Fan

- Up to 2 Modbus EBM Papst fans. For additional information please refer to the manufacturer's web site https://www.ebmpapst.com

Peripherals

S300 range comes with a full set of peripherals: OEM customization of range peripherals is possible upon request.

- Climatix IC for remote servicing and Cloud with application programming interface (API)
- ABT Site PC tool for OEM configuration, parameter setting and creation of CSV files
- ABT Go mobile app for installer commissioning and operation

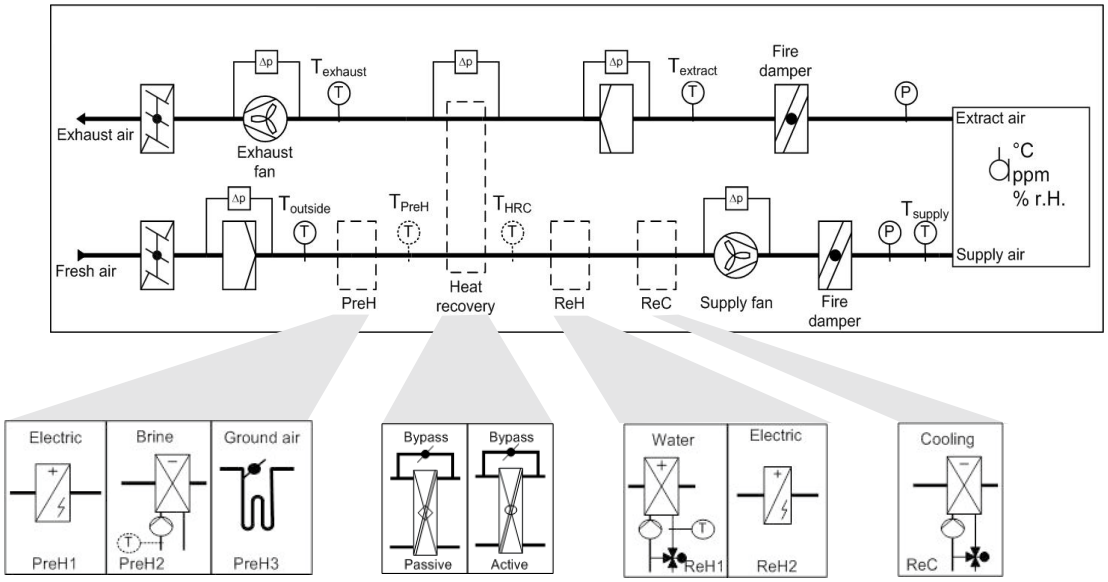
Factory API for production line integration

- End-user mobile app for resident's operation
- Room units and sensors
- Further information on available peripherals with S300 find in "Equipment combinations".

Applications

The S300 controllers, designed for heat recovery ventilation (HRV) application, were developed for the mid- and high-end residential and lighting market. The applications and hardware are designed for HRV but can also be used on compact air handling units (AHU).

- POS3.5715/100 controller with KNX PL-Link

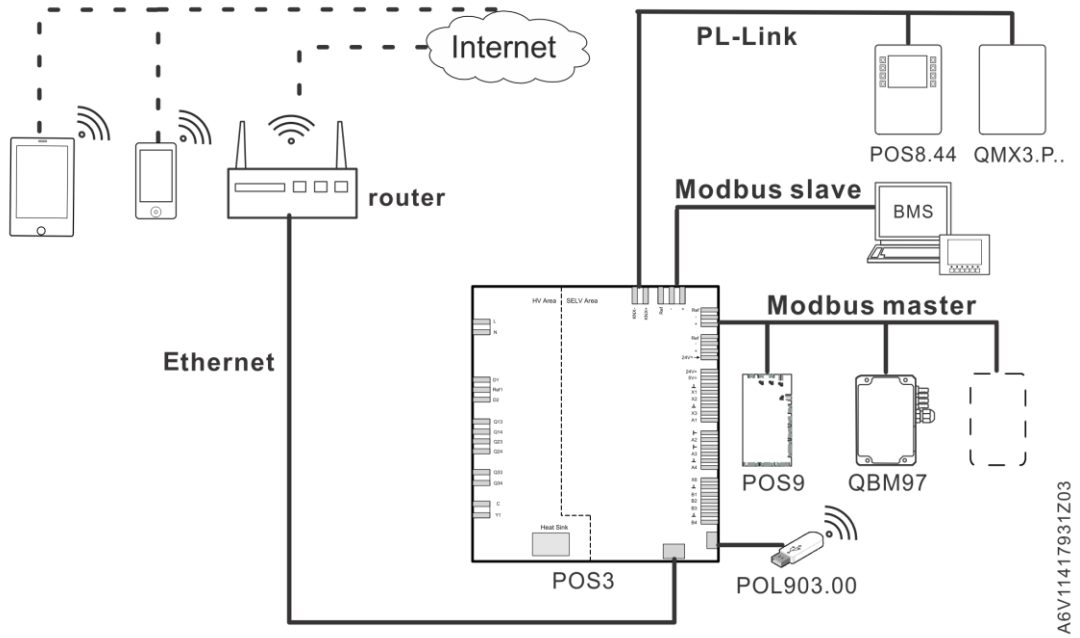


Functional description

- 2 fans with speed, flow or pressure control with or without Modbus communication
- Filter supervision via time or differential pressure
- Various air pre-conditioning options: Electric (heating), brine (heating/cooling), underground air duct (heating/cooling)
- Intelligent heat recovery handling: Passive element with bypass, active 0…10 V element with bypass, various frost protection strategies, efficiency calculation
- Compatible with air piston damper for specific bypass functionality
- Multiple air conditioning options: Electric (heating), water (heating/cooling)
- Water coil with intelligent frost protection
- Fire damper control with periodic test program
- 2 air temperature control strategies: Constant supply air temperature, cascade control
- Room measurement options: Temperature, air quality (ppm, VOC, radon), relative humidity
- Special room functions: Kitchen hood with/without own exhaust fan, ventilation boost, fireplace function, window contact, smoke / CO detection
- System control: Scheduler programs, home/away switch
- Alarm function

For a detailed description of the application functions, see the application guide ID A6V10733786.

System overview



POL903.00

Order data

Type number (ASN)	Stock number (SSN)	Product description, application	Inputs	Outputs	Modbus	KNX PL-Link	MOQ
POS3.5715/100	S55393-C571-F100	Controller with heat recovery ventilation, standard application	10	8	1 master, 2 slave	1	20

Note:

- MOQ = Minimum order quantity. The number of devices in one package equals MOQ.
- When ordering, specify type, stock number and quantity.

Equipment combinations and accessories

I/O extensions with/without pressure sensors

With POS3.3515/100 and POS3.5715/100							
Type number	**Document ID**	**Product description, application**	**Sensor elements**	**Inputs**	**Outputs**	**Com**	**MOQ**
POS9.1515/100	A6V11725998	Modbus air pressure sensor with I/O extension, on PCB, piezoresistive silicon pressure sensor elements	2 0…1245Pa	2	2	1 Modbus slave	20
QBM97..	A6V11478118	Modbus air pressure sensor with I/O extension, with housing, membrane pressure sensor elements	2 0…500Pa 0…1250Pa 0…2500Pa 0…5000Pa 0…7000Pa	2	2	1 Modbus slave	20

Room units with sensors

With POS3.5715/100						
Type number	**Document ID**	**Product description, application**	**Sensor element**	**Display**	**Com**	**MOQ**
QMX2 POS8.4420/109	A6V11519429	Room unit with temperature sensor	1 temperature	1 LCD with backlight	KNX PL-Link	20

Room sensors

With POS3.3515/100 and POS3.5715/100						
Type number	**Document ID**	**Product description, application**	**Sensor element**	**Display**	**Com**	**MOQ**
QFA20..	CE1N1857	Room sensor with different sensor combinations	Temperature, air quality CO_2, VOC, humidity	Optional	DC 0…10 V	1
QSA2700..	A6V11160938	Room fine dust sensor	Fine dust PM2.5-10	Optional	DC 0…10 V	1

With POS3.5715/100						
Type number	**Document ID**	**Product description, application**	**Sensor element**	**Display**	**Com**	**MOQ**
QMX3.P30	CM2N1602	Room sensor with different sensor combinations	Temperature	-	KNX PL-Link	1
QMX3.P40	CM2N1602		Temperature, humidity	-	KNX PL-Link	1
QMX3.P70	CM2N1602		Temperature, humidity, air quality CO_2	LED for air quality	KNX PL-Link	1
Note: only one of each type can be connected to S300 controllers.						

Duct sensors

With POS3.3515/100 and POS3.5715/100						
Type number	**Document ID**	**Product description, application**	**Sensor element**	**Display**	**Output**	**MOQ**
QAM21..	CE1N1761	Duct sensors, temperature	1 temperature	-	Pt 100 Pt 1000 LG-Ni 1000 NTC 10k	1
QFM31..	CE1N1882	Duct sensors, relative humidity / temperature, for demanding requirements	1 temperature, 1 humidity	Optional	DC 0…10 V 4…20 mA	1
QPM11..	CE1N1962	Duct air quality sensor, VOC	1 VOC	-	DC 0…10 V DC 0…5 V 4…20 mA	1
QPM21..	CE1N1962	Duct air quality sensor, CO_2 / temperature / relative humidity / VOC	1 CO_2, 1 humidity, 1 temperature	Optional	DC 0…10 V DC 0…5 V 4…20 mA	1

Damper actuators

With POS3.3515/100 and POS3.5715/100					
Type number	**Document ID**	**Product description, application**	**Output**	**Com**	**MOQ**
GSD..	CE1N4606	Damper actuator 2 Nm without spring return	DC 0…10 V	-	20

Note: the GSD.. damper actuators can only be used for heat exchanger (bypass).

WLAN stick

Type number	Document ID	Product description, application	Use	MOQ
POL903.00/100	A6V11937426	WLAN stick	Temporary for WLAN connection to mobile device during commissioning and servicing.	20

Tools and Apps

Type number	Document ID	Product description, application	Download	Note
ABT Go app	-	Commissioning app for installation, servicing, configuration, settings, parameter copy, file share	Android: Google Play™ iOS: App store®	-
ABT Site PC tool	-	Configuration, parameter setting and creation of CSV file	SIOS	-
End-user app	-	Operation app for end-user including scheduler	SIOS	End-user app made available to OEM; customization upon request

Remote access and cloud API

With POS3.3515/100 and POS3.5715/100										
Type number	**Document ID**	**Product description, application**	**Remote access**	**Location plant overview**	**Config. dashboard**	**Web graphics**	**Monitoring trending alarm**	**FW upgrade**	**API**	**MOQ**
POL0L2.00/STD	A6V10449189	Climatix IC20 credits	1	1	1	1	1	1	1	500

Connectors

Type number	Stock number	Product description, application	Pole	Area	Phoenix type	MOQ
POL005.15/STD	S55843-Z151-F100	2-pole connector orange, power supply	2	230 V	Phoenix:1773879 MVSTBW 2,5/2-ST OG	100
POL005.25/STD	S55843-Z152-F100	2-pole connector	2	230 V	Phoenix:1792524 MVSTBW 2,5/2-ST	100
POL005.35/STD	S55843-Z152-F100	3-pole connector	3	230 V	Phoenix:1792537 MVSTBW 2,5/3-ST	100
-	-	4-pole	-	-	Note: use two 2-pole connectors	-
POS0.3325/100	S55844-Z332-F100	2-pole connector	2	SELV	FK-MC 0,5/2-ST-2,5 1881325	100
POS0.3335/100	S55844-Z333-F100	3-pole connector	3	SELV	FK-MC 0,5/3-ST-2,5 1881338	100
POS0.3345/100	S55844-Z334-F100	4-pole connector	4	SELV	FK-MC 0,5/4-ST-2,5 1881341	100

Type number	Stock number	Product description, application	Pole	Area	Phoenix type	MOQ
POS0.3365/100	S55844-Z336-F100	6-pole connector	6	SELV	FK-MC 0,5/6-ST-2,5 1881367	100
POS0.3375/100	S55844-Z337-F100	7-pole connector	7	SELV	FK-MC 0,5/7-ST-2,5 1881370	100
POS0.3385/100	S55844-Z338-F100	8-pole connector	8	SELV	FK-MC 0,5/8-ST-2,5 1881383	100

Note:

- API = Application Programming Interface for third party integration (clouds, applications, business software)
- For ordering, check the device datasheet (Document ID) for type number, stock number and quantity. Make sure the number of devices in one package equals MOQ.

Product documentation

Topic	Title	Document ID:
Engineering, mounting and installation	Basic documentation	A6V11417934
CE declaration		A6V11664101
Product environmental declaration		A5W90008047

All documents can be downloaded from http://siemens.com/bt/download.

Notes

Security

⚠ CAUTION

National safety regulations

Failure to comply with national safety regulations may result in personal injury and property damage.

- Observe national provisions and comply with the appropriate safety regulations.

Engineering

⚠ WARNING

No accidental contact with relays at voltages above 42 $V_{eff.}$

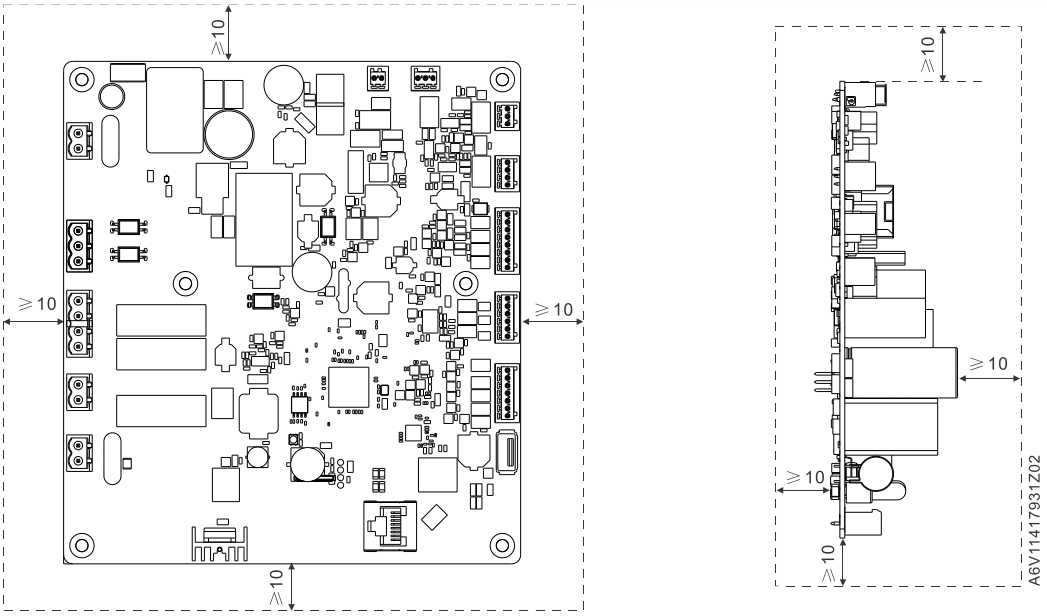
Contact my result in death or serious injury.

- Use external protection for inductive load of relay outputs.
- Use external fuses for over current protection of relay and Triac outputs.
- Do not mix SELV/PELV and line voltages on the same terminal.
- AC 230 V cables must be double-insulated against cables carrying safety extra-low voltage (SELV).

Mounting

Clearance requirement

At least 10 mm clearance to the PCB edge is required.



Dimensions in mm

Mounting screws

Use metallic screws (M3.5) to mount the controller in a cabinet.

- Diameter of screw head and nut is no more than 10 mm.
- Screws are not included in the delivery package.

Installation

	**⚠ WARNING**
	No internal line protection for supply lines to external consumers Risk of fire and injury due to short-circuits ● Adapt the line diameters as per local regulations to the rated value of the installed fuse.

	**⚠ WARNING**
	The connected plug-in terminals supply mains voltage Can result in death or serious injury. ● Disconnect all power to the plug-in terminals prior to plugging in or taking off the connectors.

⚠ CAUTION

No protection against incorrect wiring on 230 V

The device is damaged

- Do not connect the mains power to the low voltage side.

Configuration, parameter setting and CSV file creation with ABT site PC tool

ABT Site is the PC based tool to engineer and commission building automation systems from Siemens. [10:38 AM] Val, Emmanuel (SI BP FDO OEM ACS)

ABT Site supports the following features:

- Upgrade firmware
- Configure and parameterize offline
- Upload device to file
- Export to factory tool
- User Role Management
- Download file to device

Commissioning with ABT Go app

The controller comes with predefined applications that can be configured and commissioned on site using the Android™ or iOS application ABT Go.

Smart phones or tablets can be connected temporarily via wireless routers, via gateway with battery pack, via gateway with USB output power supply, or via WLAN USB stick, so to be used as commissioning tool for the following tasks:

- Check and change configurations
- Change parameter settings
- Test wiring and functions
- Firmware update

For more tasks, see ABT Go feature list on Google Play™.

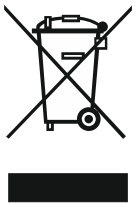
Operation with Room Unit and Mobile app

- End user operation on room unit POS8.4420/109, including:
  - Set operating mode
  - Change setpoints
  - Temporary override
  - Error and maintenance information
  - Change scheduler
- End user operation on smart phones or tablets via Internet connection, including:
  - Set operating mode
  - Change setpoints
  - Change scheduler
  - Temporary override
  - Error and maintenance information
  - Historical charts

Maintenance

The controller is designed as a maintenance-free device.

Disposal



The device is considered electrical and electronic equipment for disposal in terms of the applicable European Directive and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

Warranty

Technical data on specific applications are valid only together with Siemens products listed under “Equipment combinations”. Siemens rejects any and all warranties in the event that other products are used.

Open Source Software (OSS)

All open source software components used within the product (including their copyright holders and the license conditions) can be found from the website http://www.siemens.com/download?A6V11744172.

Technical data

LED indication

LED status	Function
Red LED	Error
Green LED blink (once / sec)	System running
Green LED blink (twice / sec)	WLAN stick connected
Green and red LED blink (once / sec)	Software not loaded or not running
Green and red LED blink (> 3 times / sec)	Firmware loading

Power supply

Power supply	
Operating voltage	AC 230 V (+10% / -15%)
Frequency	50/60 Hz.
Max. power consumption	46 VA

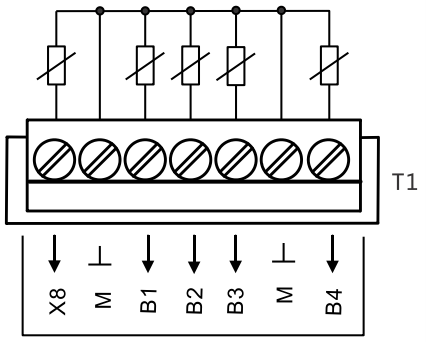
NOTICE! M or Ref must be connected to earth by metal screw installation.

Inputs

Analog inputs for sensors

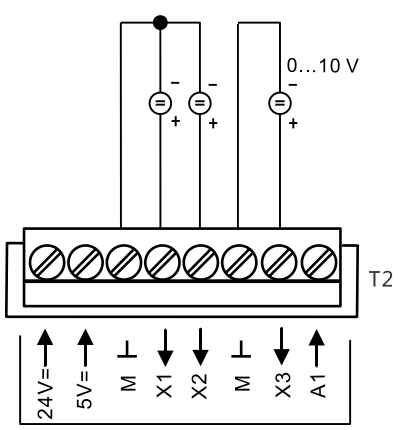
X8, B1, B2, B3, B4 (T1)

NTC 10 K ($B_{25/85}$ = 3977 K)		
Sensor current	630 µA at 25 °C (pulse sampling)	
Temperature range	-50...120 °C	
Accuracy and resolution of input	See table below	
Temperature	**Accuracy**	**Resolution**
-50 °C	4.5 K	0.6 K
-40 °C	2.5 K	0.4 K
-30 °C	1.5 K	0.2 K
-10 °C	0.8 K	0.1 K
0 °C	0.3 K	0.1 K
50 °C	0.7 K	0.2 K
70 °C	1.3 K	0.3 K
90 °C	2.5 K	0.6 K
100 °C	3.3 K	0.8 K
110 °C	4.1 K	1.0 K
120 °C	6.1 K	1.0 K



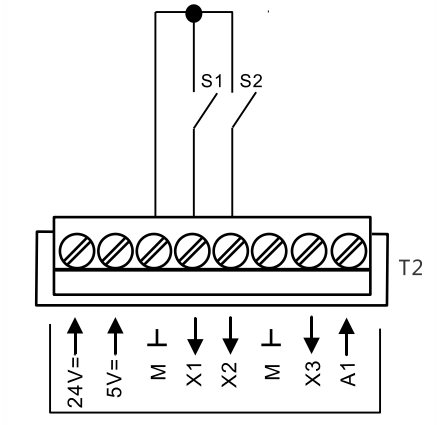
DC 0…10 V inputs

X1, X2, X3 (T2)

DC 0…10 V	
Operating range	0…10 V
Resolution	10 mV
Accuracy at 0 V Accuracy at 5 V Accuracy at 10 V	50 mV 80 mV 100 mV
Internal resistance	> 100 KΩ
Avoid negative voltages at the analog inputs, as conversion leads to undetermined results.	

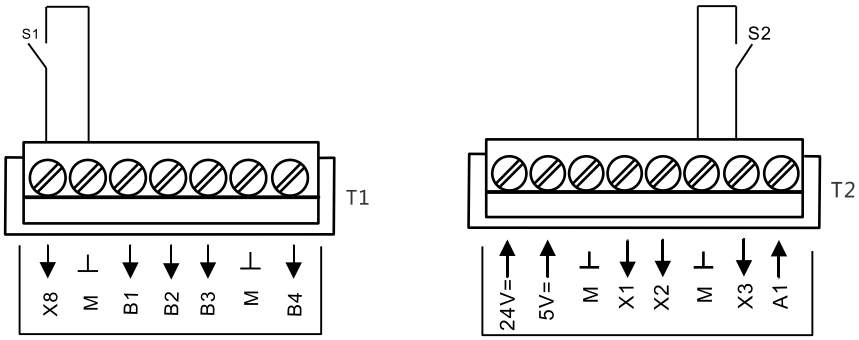
Digital inputs: pulse measurement

X1, X2 (T2)

Pulse measurement	
For open collector sensor	• Max. speed: 18000 RPM • Pulse frequency: max. 300 Hz
Contact resistance	• Max. 800 Ω (closed) • Min. 50 KΩ (open)
For fan speed visualization and error detection	1 pulse per revolution
	

Digital inputs: potential-free
X3 (T2), X8 (T1)

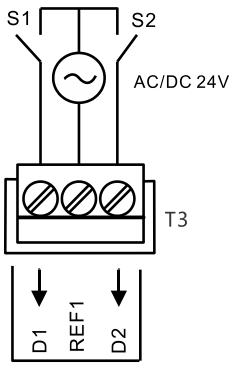
0/1 digital signal	
For potential free contacts	
Contact resistance	Max. 200 Ω (closed) Min. 50 KΩ (open)
Pulse frequency	Max. 20 Hz
Contact sensing voltage	DC19.5…24 V
Contact sensing current	2.0 mA (initial current 8 mA)



Digital inputs: AC/DC 24 V

D1, D2 (T3)

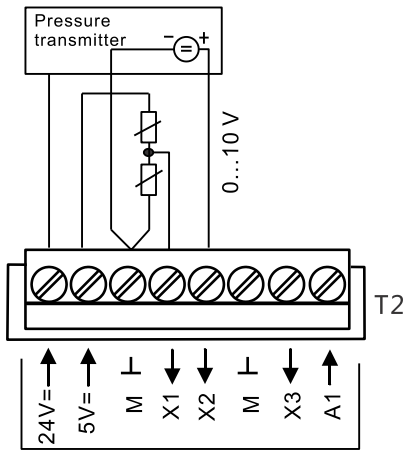
Active digital input 24 V	
24 V AC or DC signal operating range Low / high detection	AC or DC 0... 24 (+-10%) AC/DC 24 V
Digital binary input D1, D2	potential free contact (NO or NC)



Outputs

DC 5 V/24 V outputs

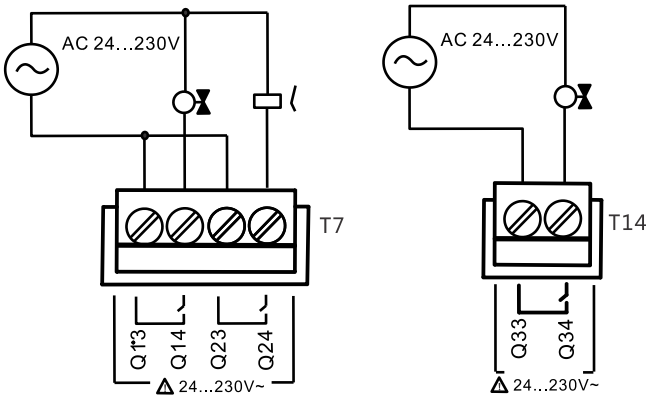
Power supply for field sensors	
DC 5 V voltage/current	DC 5 V ± 2.5% / 20 mA
DC 24 V output with HMI 24 V voltage/current	DC 24 V ± 10% / 160 mA (80 mA for T2 and 80 mA for T16)

Power supply for field sensors	
Reference potential	Terminals ⊥
Connection	Short-circuit protected
NOTICE! The drive's capacitive load of DC output 24 V and HMI 24 V is less than 100 µF.	

Digital outputs

Q13, Q14, Q23, Q24 (T7)

Q33, Q34 (T14)

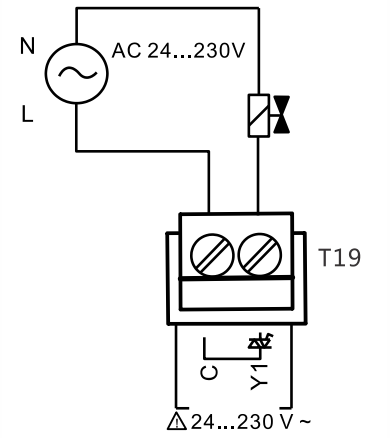
Digital relay outputs	
Contact	Monostable, NO (normally open) contacts, SPST (single pole, single throw)
Switching voltage	AC 24...230 V (-20 % / +10 %)
Rated current (res./ ind.)	AC 0.02...3 A (res.) / 2 A (ind. cosφ=0.6)
Switch on current	Max. 15 A < 1 s
Endurance	150,000 cycles at AC 250 V, 3 A (res.)
Max. external supply line fusing	6.3 A slow wire fuse or circuit breaker
	

Triac outputs

Y1 (T19)

Onboard Triac output	
Switching voltage	AC 24...230 V (-20% / +10%)
Nominal current (res./ ind.)	With heat sink: AC 0.05….1 A (cosφ=1)
Switch on current	Max. 10 A < 1 s

Onboard Triac output	
Endurance	Max. 4’000’000 cycles for 1 A resistive load
Min. cycle time (configurable) of PWM signal	≥ 1 s / 1 Hz
Max. external supply line fusing	2.5 A circuit breaker
Digital (binary) / analog output triac VAC	signal On/Off, signal PWM (constant period))

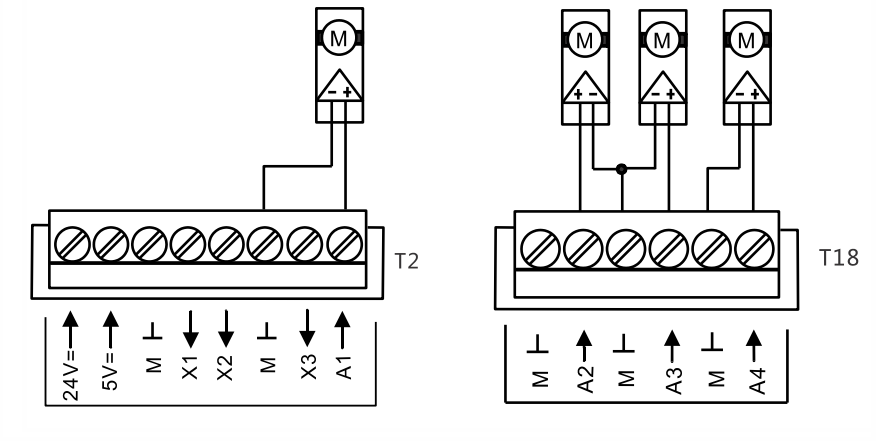


Analog outputs

A1 (T2)

A2, A3, A4 (T18)

Analog output	
Configurable voltage range	0...5 V or 0...10 V
Ripple	< 50 mVpp
Accuracy at 0 V Accuracy at 5 V Accuracy at 10 V	80 mV 100 mV 130 mV
Output current	Max. 1 mA



Connections

Interfaces	
Ethernet	Plugs: RJ45, top entry. Interface type: 10BASE-T/100BASE-TX. Bit rates: 10/100 Mbps, auto-sensing. Protocol: BACnet/IP over Ethernet. CAT5 shielded twisted pair Length: Max. 30 m
USB 2.0	Plug: USB type A. Data rate: full speed. 5 V/500 mA power supply with over-current limiting.
KNX (only for POS3.5715/100)	Type: KNX PL-Link, galvanic isolation. DPSU: 40 mA rated current Short-circuit proof. Protection against faulty wiring at max. AC 24 V.
Non-isolated RS485 (Master)	1) Low slew rate 1/8 unit load transceiver (Max. 8 slaves) 2) Baud rate:9600/19200/38400/57600/76800/115200bps 3) Configurable passive failsafe 4) Protection against faulty wiring 5) Max. 30 m cable length 6) Modbus master mode is integrated with termination resistor and can be activated/deactivated by the ABT tool **NOTICE! On RS485 network, it is essential to use terminating resistors (120 Ω/1 nF) that match the cable's characteristic impedance to prevent signal echoes from corrupting the data on the line. The terminating resistors which are integrated on the board are usually configured by users at the end of RS485 network.**
Non-isolated RS485 (slave)	1) Low slew rate 1/8 unit load transceiver 2) Baud rate: 4800/9600/19200/38400/57600/76800/115200bps 3) Max. 30 m cable length 4) Modbus master slave mode is integrated with termination resistor and can be activated/deactivated via the ABT tool

General data

General	
Dimension	165 x 150 x 31 mm (L x W x H)
Weight	251 g
Housing	No housing
Real-time clock	Buffering with internal supercap: min. 9 hrs Time accuracy: 15 min /year at 25 °C

Conformity

Ambient conditions and protection classification	
Classification as per EN 60730 Function of automatic control devices Degree of contamination Overvoltage category	 Type 1 2 III.
Design type	Device suited for use with equipment of safety classes I and II.

Ambient conditions and protection classification	
Degree of protection of housing to EN 60529 Without housing	 IP00
Climatic ambient conditions ● Transport (packaged for transport) as per IEC 721-3-2 ● Storage as per IEC 721-3-1 ● Operation as per IEC 721-3-3	Transport / Storage ● Temperature -40...70 °C (-40... 158 °F) ● Air humidity: 5-90% r.h. (non-condensing). Operation: ● Temperature -40...50 °C (-40... 122 °F) ● Air humidity: 5-90 % r.h. (non-condensing).
Mechanical ambient conditions Transport as per EN 60721-3-2 Operation as per EN 60721-3-3	 Class 2M2. Class 3M2.

Reliability	
Mean time between failure (MTBF)	Min. 65 years at 20 °C environment

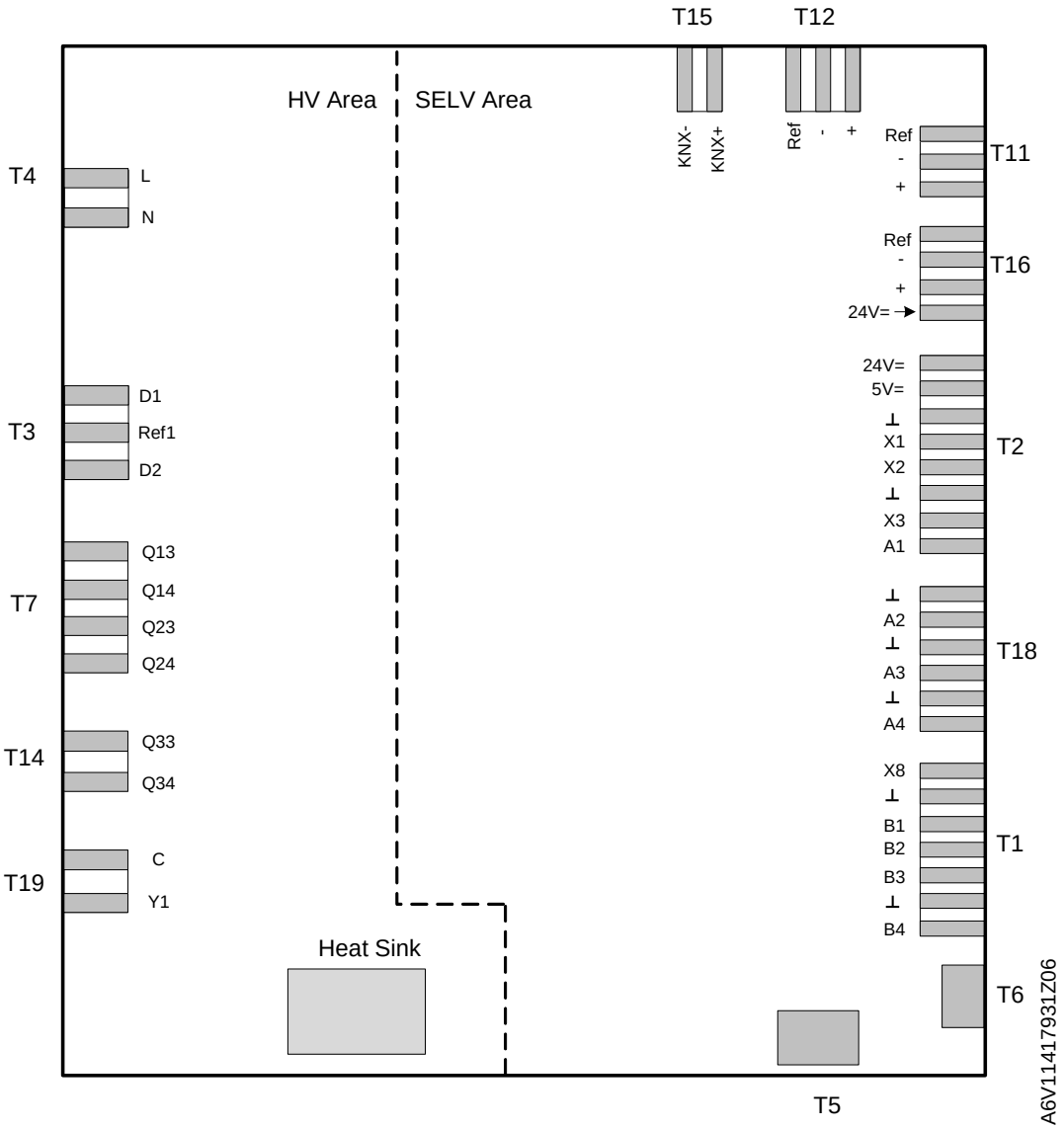
Standards, directives and approvals	
EU conformity (CE)	A6V11664101
RCM conformity	A6V11664106
Environmental compatibility	The product environmental declaration (A5W90008047) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

Related documents such as environmental declarations, CE declarations, etc., can be downloaded at the following Internet address:

http://siemens.com/bt/download

Diagrams

Connection terminals

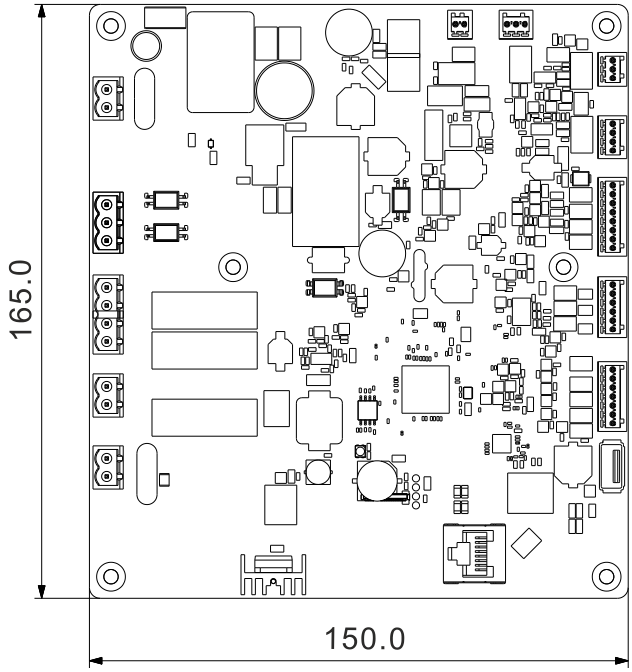


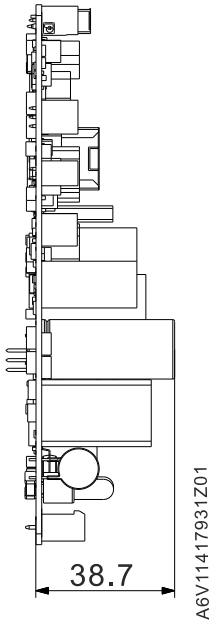
	Use	Socket	Connector type
KNX+	KNX bus connection (only on POS3.5715/100)	T15	Phoenix: FK-MC 0,5/ 2-ST-2,5 - 1881325
KNX-			
+	Modbus slave mode connection over RS485	T12	Phoenix: FK-MC 0,5/ 3-ST-2,5 1881338
-			
Ref			
Ref	Modbus master mode connection over RS485	T11	Phoenix: FK-MC 0,5/ 3-ST-2,5 1881338
-			
+			
Ref	Local HMI communication (Modbus slave mode connection over RS485)	T16	Phoenix: FK-MC 0,5/ 4-ST-2,5 – 1881341
-			
+			
24 V=→			
24 V=	DC 24 V controlled voltage output	T2	Phoenix: FK-MC 0,5/ 8-ST-2,5 – 1881383
5 V	DC 5 V controlled voltage output		

	Use	Socket	Connector type
⊥	System neutral		
X1, X2	DC 0…10 V inputs Digital inputs: pulse measurement		
⊥	System neutral		
X3	DC 0…10 V inputs Digital input: potential-free		
A1	Analog output: 0…10 V		
⊥	System neutral	T18	Phoenix: FK-MC 0,5/ 6-ST-2,5 1881367
A2	Analog output: 0…10 V		
⊥	System neutral		
A3	Analog output: 0…10 V		
⊥	System neutral		
A4	Analog output: 0…10 V		
X8	Digital input: potential-free (NTC 10K)	T1	Phoenix: FK-MC 0,5/ 7-ST-2,5 – 1881370
⊥	System neutral		
B1, B2, B3, B4	Analog inputs: resistor NTC 10 k		
⊥	System neutral		
	USB interface	T6	USB type A
	RJ45 interface for Ethernet switch	T5	
L	Phase wire AC 230 V	T4	Phoenix:1773879 MVSTBW 2,5/2-ST OG
N	Neutral conductor		
D1	AC/DC 24 V input signals DI 1	T3	Phoenix:1792537 MVSTBW 2,5/3-ST
Ref1	Measuring neutral for input signals (reference voltage G0)		
D2	AC/DC 24 V input signals DI 2		
Q13	Digital output	T7	Phoenix:1792540 MVSTBW 2,5/4-ST
Q14	Digital output		
Q23	Digital output		
Q24	Digital output		
Q33	Digital output	T14	Phoenix:1792524 MVSTBW 2,5/2-ST
Q34	Digital output		
C	Common wiring	T19	Phoenix:1792524 MVSTBW 2,5/2-ST
Y1	AC 24…230 V, Triac output		

Dimensions

Unit: mm





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