

PLC-V8C/SC-24DC/SAM2 - Controller



2907445

<https://www.phoenixcontact.com/us/products/2907445>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PLC logic stand-alone module, Generation 2, with 16 I/Os, for plug-in connection to eight digital or analog PLC-INTERFACE terminal blocks, cannot be extended, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, screw connection

Commercial data

Item number	2907445
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C424
Product key	CK2611
Catalog page	Page 428 (C-5-2017)
GTIN	4055626218175
Weight per piece (including packing)	131.667 g
Weight per piece (excluding packing)	131 g
Customs tariff number	85371098
Country of origin	DE

Technical data

Notes

General	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
---------	--

Product properties

Product type	Base unit
Product family	PLC logic
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
------------	------------------

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Overtoltage category	III
Pollution degree	2

Electrical properties

Air clearances and creepage distances between the power circuits

Rated insulation voltage	50 V
Rated surge voltage	0.8 kV

Real-time clock

Realtime clock	Yes
Buffer period	96 h (Capacitor)
Accuracy realtime clock	±2 s/d

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 26.4 V DC
Typical input current at U_N	40 mA
Maximum input current at U_N	160 mA
Protective circuit	Reverse polarity protection
	Surge protection

Input data

Digital inputs

Number of inputs	≤ 8 (2 configurable as analog)
Description of the input	EN 61131-2, type 3
Input voltage	24 V DC
Signal level "0" signal	< 5 V

PLC-V8C/SC-24DC/SAM2 - Controller



2907445

<https://www.phoenixcontact.com/us/products/2907445>

Signal level "1" signal	> 11 V
Input current "0" signal	< 1 mA
Input current "1" signal	2.5 mA
Status display	Yellow LED

Analog inputs

Number of inputs	≤ 2 (IN6 and IN7 are configurable as analog)
Input voltage range	0 V ... 10 V
Input resistance	> 3.5 kΩ

Contact to PLC-INTERFACE

Number of inputs	≤ 8
Description of the input	technical data depends on the PLC-INTERFACE terminal block used
Input voltage	19 V DC
Typical current consumption	4 mA
Input resistance	< 100 mΩ

Output data

Number of outputs	≤ 8
Nominal output voltage	24 V DC
Nominal current	9 mA

Connection data

COMBICON connection

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M2
Number of connections	1
Number of positions	10
Note	Device supply and 8 x inputs
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ² 0.25 mm ² ... 0.5 mm ² (Ferrule with plastic sleeve) 0.25 mm ² ... 1.5 mm ² (Ferrules without plastic sleeve)
Conductor cross section AWG	28 ... 16

Programming connection

Connection method	Micro USB type B
Number of connections	1

Memory

Connection method	S-PORT (socket)
Number of connections	1
Number of positions	12
Note	For connecting the memory module

PLC-V8C/SC-24DC/SAM2 - Controller



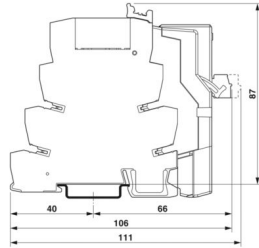
2907445

<https://www.phoenixcontact.com/us/products/2907445>

Signaling

Status display	Green LED
----------------	-----------

Dimensions

Dimensional drawing	
Width	50 mm
Height	44 mm
	106 mm (with relay)
Depth	82.5 mm
	87 mm (with relay)

Material specifications

Color	gray (RAL 7042)
-------	-----------------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Max. permissible relative humidity (operation)	95 %

Approvals

CE

Certificate	CE-compliant
-------------	--------------

UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D T4
----------------	---------------------------------------

UL, Canada

Identification	Class I, Zone 2, Ex ec IIC Gc T4 X
----------------	------------------------------------

UL, USA

Identification	Class I, Zone 2, AEx ec IIC T4
----------------	--------------------------------

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178
-----------------------	--------------

PLC-V8C/SC-24DC/SAM2 - Controller



2907445

<https://www.phoenixcontact.com/us/products/2907445>

Mounting

Mounting type	Plug-in mounting
Assembly instructions	can be plugged onto 8 x PLC-INTERFACE terminal blocks
Mounting position	any

PLC-V8C/SC-24DC/SAM2 - Controller



2907445

<https://www.phoenixcontact.com/us/products/2907445>

Classifications

ECLASS

ECLASS-11.0	27242216
ECLASS-13.0	27242216
ECLASS-12.0	27242216

ETIM

ETIM 9.0	EC001417
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

PLC-V8C/SC-24DC/SAM2 - Controller



2907445

<https://www.phoenixcontact.com/us/products/2907445>

Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com