

PLC-V8C/PT-24DC/RS485 - Controller



1452919

<https://www.phoenixcontact.com/us/products/1452919>

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PLC logic basic module with RS-485 connection for Modbus/RTU communication, with 16 I/Os, for plug-in connection to 8 digital or analog PLC-INTERFACE terminal blocks, can be extended to 48 I/Os, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, Push-in connection

Commercial data

Item number	1452919
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C424
Product key	DK2611
GTIN	4063151840372
Weight per piece (including packing)	154.4 g
Weight per piece (excluding packing)	64.3 g
Customs tariff number	85371098
Country of origin	DE

Technical data

Notes

Notes on operation	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.
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Product properties

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

Insulation characteristics: Air clearances and creepage distances

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Air clearances and creepage distances

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
Signal level "1" signal	> 11 V
Input current "0" signal	< 1 mA

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Input current "I" signal	2.5 mA
Status display	LED (yellow)

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	Push-in connection
Stripping length	9 mm
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 (Ferrule without plastic sleeve)
Conductor cross-section AWG	26 ... 16

Programming connection

Connection method	Micro USB type B
Number of connections	1

RS-485

Connection method	Spring-cage connection
Stripping length	6 mm
Number of connections	1
Number of positions	3
Conductor cross-section rigid	0.14 mm ² ... 0.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 0.5 mm ²
Conductor cross-section AWG	26 ... 20

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PLC logic - bus

Connection method	Insulation displacement connection
Number of connections	1
Number of positions	4

Memory

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

Interfaces

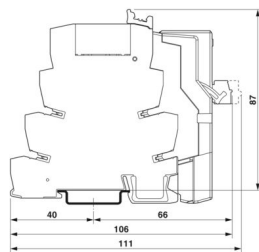
Data: RS-485

Data rate	19200 Baud
Termination resistor	150 Ω
Protocols supported	Modbus/RTU

Signaling

Status display	LED (green)
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Dimensions

Dimensional drawing	
Width	50 mm
Height	48.5 mm
Depth	111 mm (with relay)
	82.5 mm
	87 mm (with relay)

Material specifications

Color	gray (RAL 7042)
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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

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Max. permissible relative humidity (operation)	95 %
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Approvals

CE

Certificate	CE-compliant
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UL, USA/Canada

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

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

Identification	Class I, Zone 2, AEx ec IIC T4
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Standards and regulations

Air clearances and creepage distances

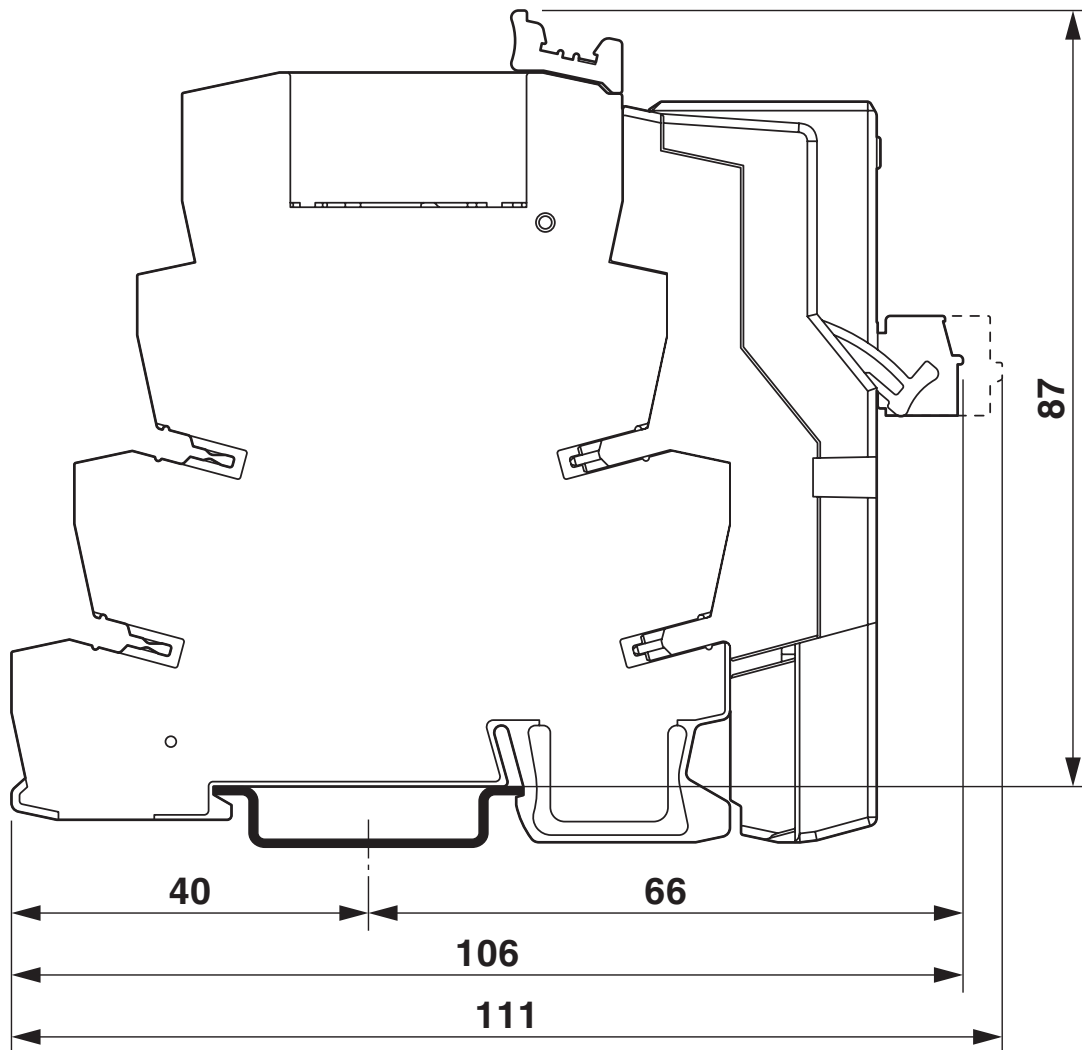
Standards/regulations	EN IEC 60664-1
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Mounting

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

Drawings

Dimensional drawing



PLC logic with relay

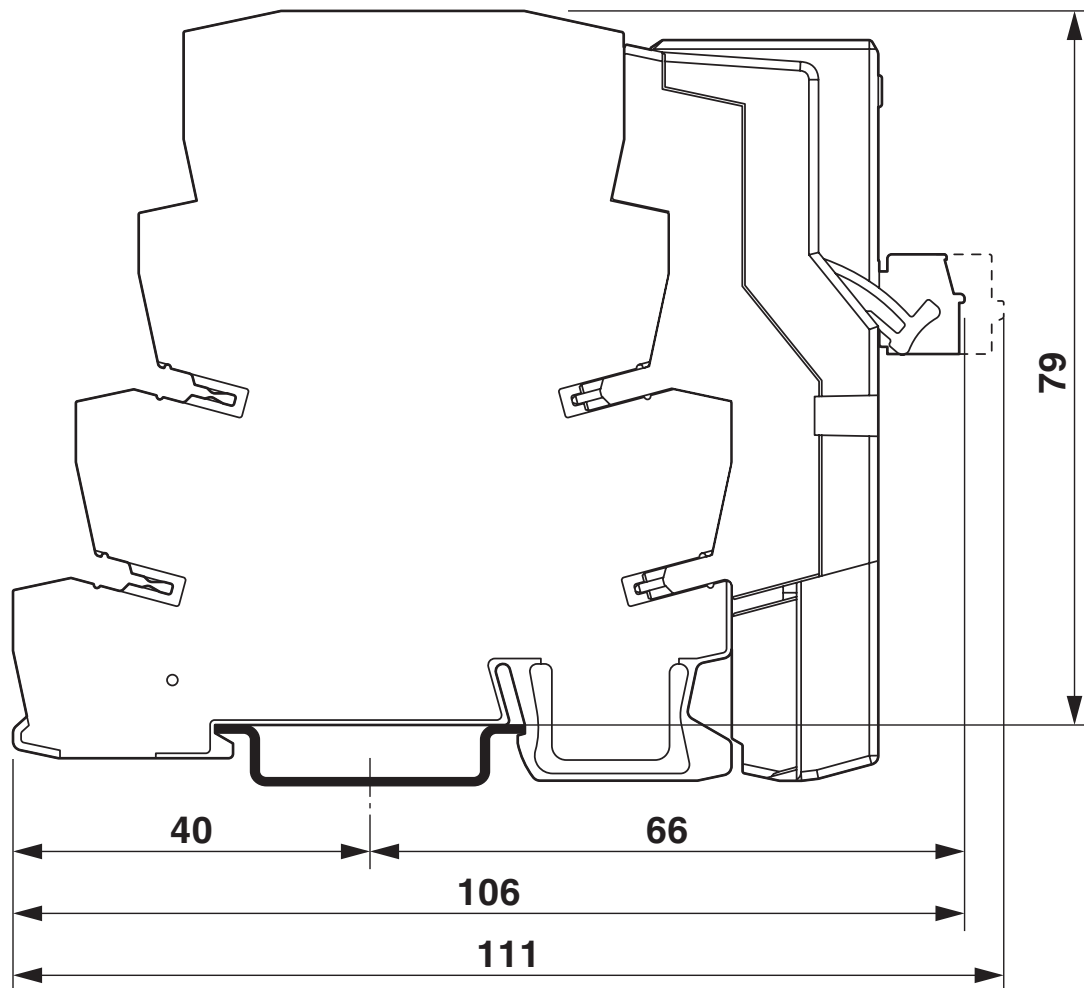
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Dimensional drawing



PLC logic with analogue terminals

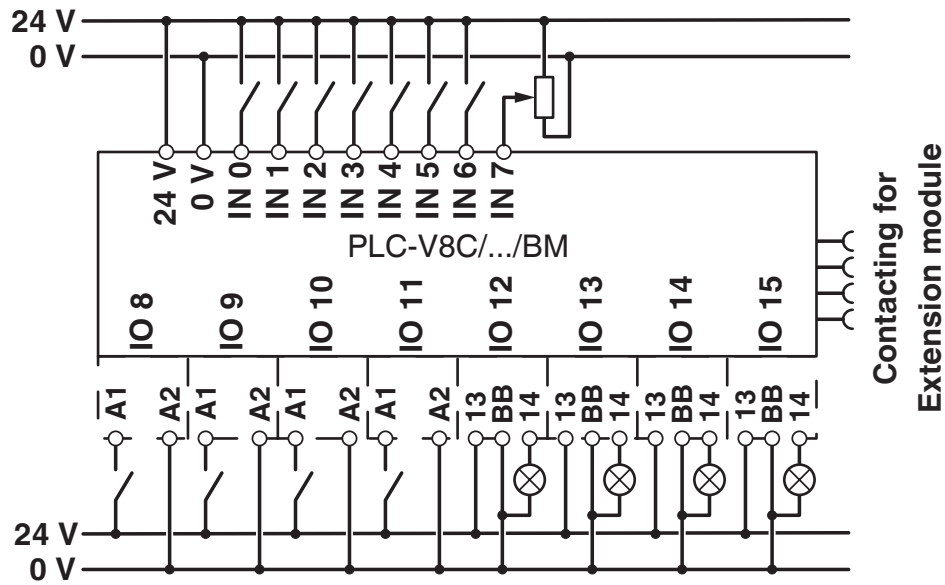
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Connection diagram



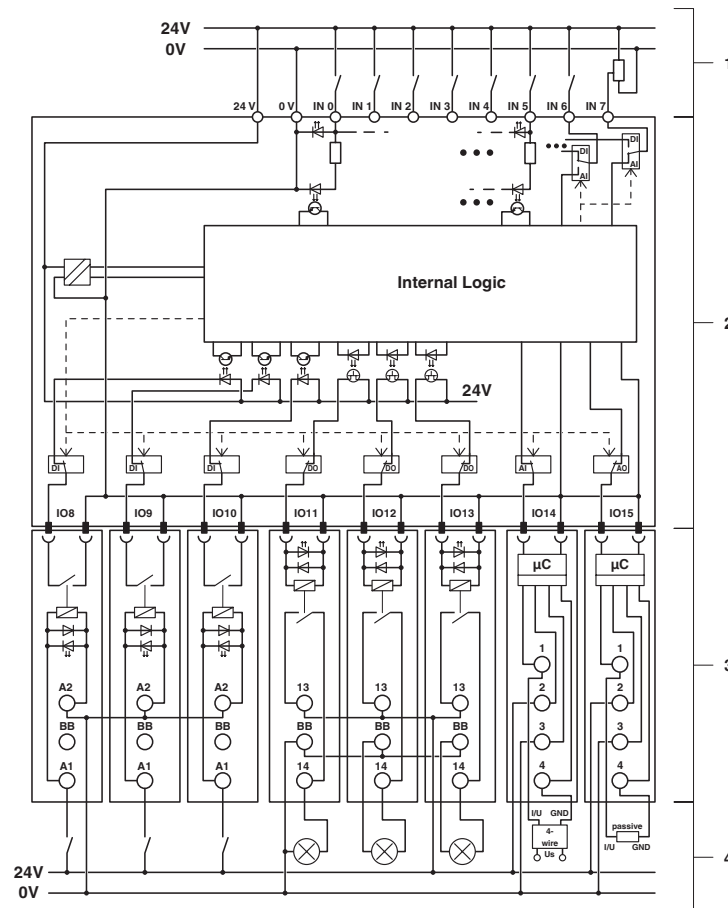
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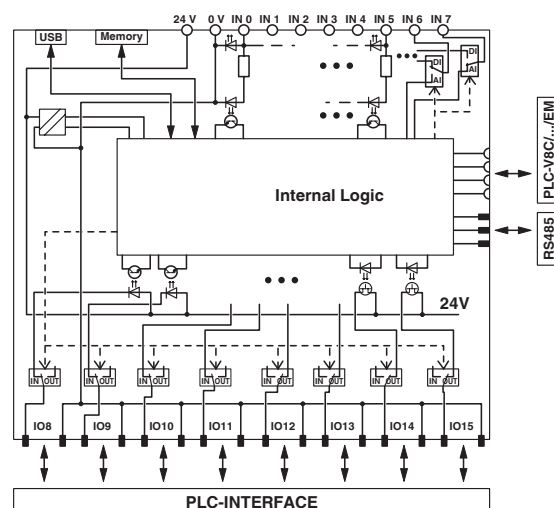


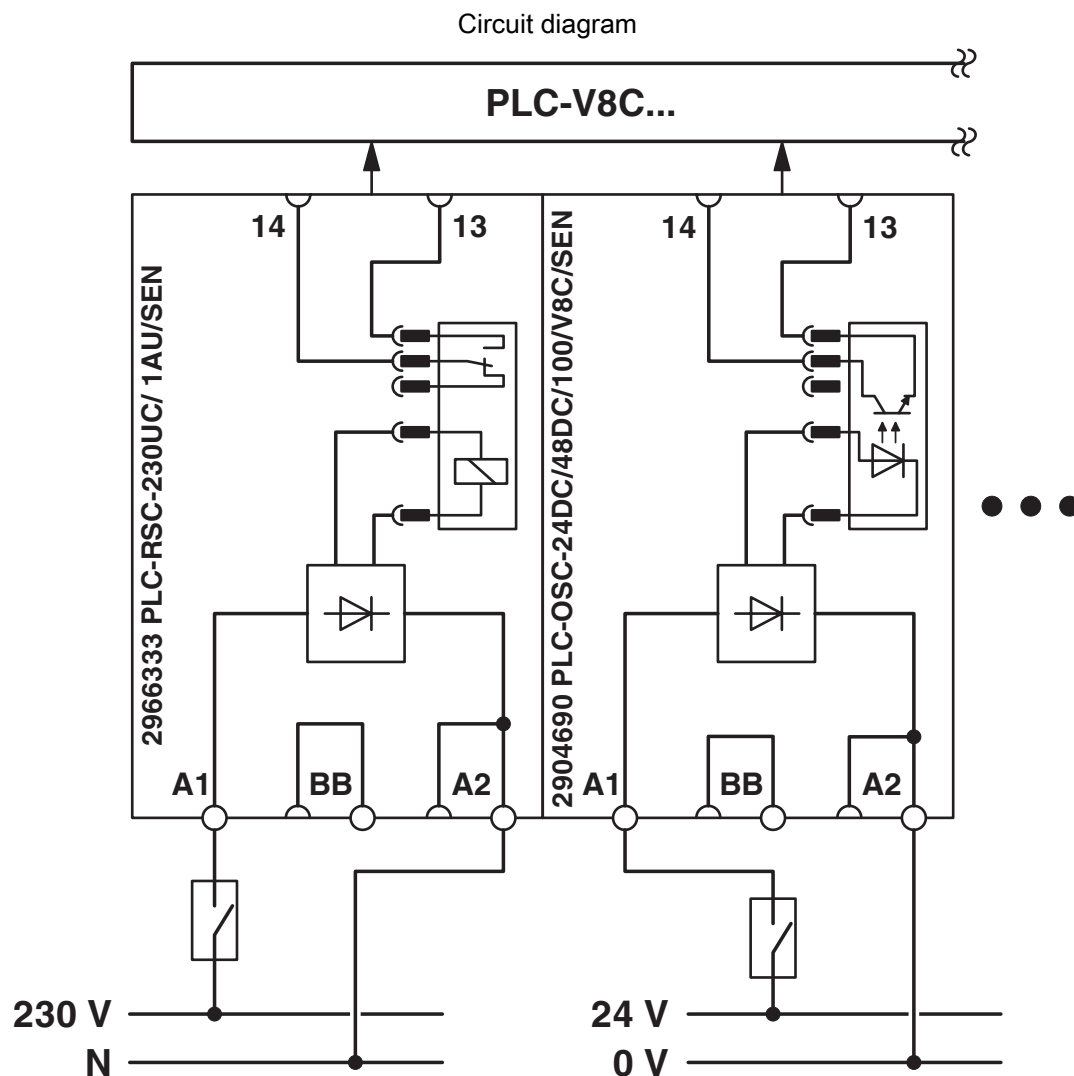
Circuit diagram



- 1 Field connection via COMBICON connector
- 2 PLC -V8C/...
- 3 PLC-INTERFACE terminal blocks
- 4 Field connection via PLC-INTERFACE terminal blocks

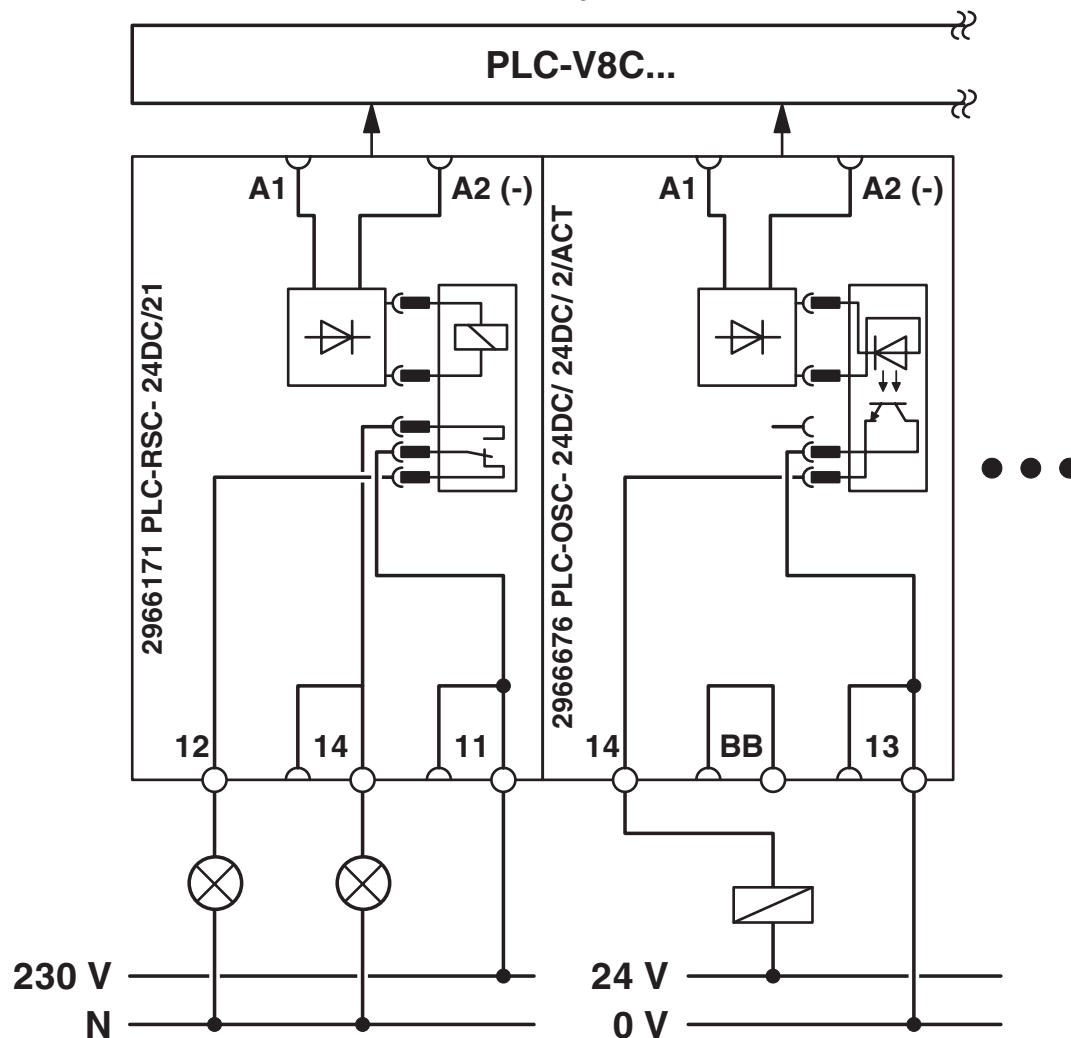
Circuit diagram





Basic circuit diagram: inputs via PLC-INTERFACE with the example of one input terminal block with relay (230 V AC) and one input terminal block with solid-state relay (24 V DC).

Circuit diagram



Basic circuit diagram: outputs via PLC-INTERFACE with the example of an output terminal block with relay, 1 changeover contact, and an output terminal block with solid-state relay.

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Approvals

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cULus Listed

Approval ID: E140324



cULus Listed

Approval ID: E199827

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Classifications

ECLASS

ECLASS-13.0	27242216
ECLASS-15.0	27242216

ETIM

ETIM 9.0	EC001417
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UNSPSC

UNSPSC 21.0	32101600
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