

# PLC-V8C/SC-24DC/SAM - Controller



2905082

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PLC logic stand-alone logic module, generation 1, with 16 I/Os, can be plugged onto 8 digital PLC-INTERFACE terminal blocks, cannot be extended, realtime clock, accommodates memory module and Bluetooth adapter (firmware update required, see downloads), screw connection

## Commercial data

Item number	2905082
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C424
Product key	DK2611
GTIN	4046356918923
Weight per piece (including packing)	131.4 g
Weight per piece (excluding packing)	131.4 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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### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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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 between the power circuits

Insulation	Basic insulation
Overvoltage 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	24 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
Maximum input current at $U_N$	120 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

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Signal level "1" signal	> 11 V
Input current "0" signal	< 1 mA
Input current "1" 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 k $\Omega$

## Contact to PLC-INTERFACE

Number of inputs	$\leq 8$
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 m $\Omega$

## Output data

Number of outputs	$\leq 8$
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 <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (Ferrule with plastic sleeve) 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule 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

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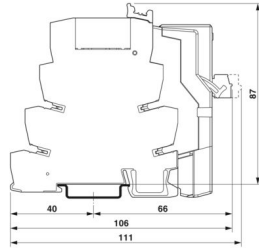
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## Signaling

Status display	LED (green)
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## Dimensions

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

## Material specifications

Color	green (RAL 6021)
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 45 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Max. permissible relative humidity (operation)	95 %

## Approvals

### CE

Certificate	CE-compliant
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## Standards and regulations

### Air clearances and creepage distances between the power circuits

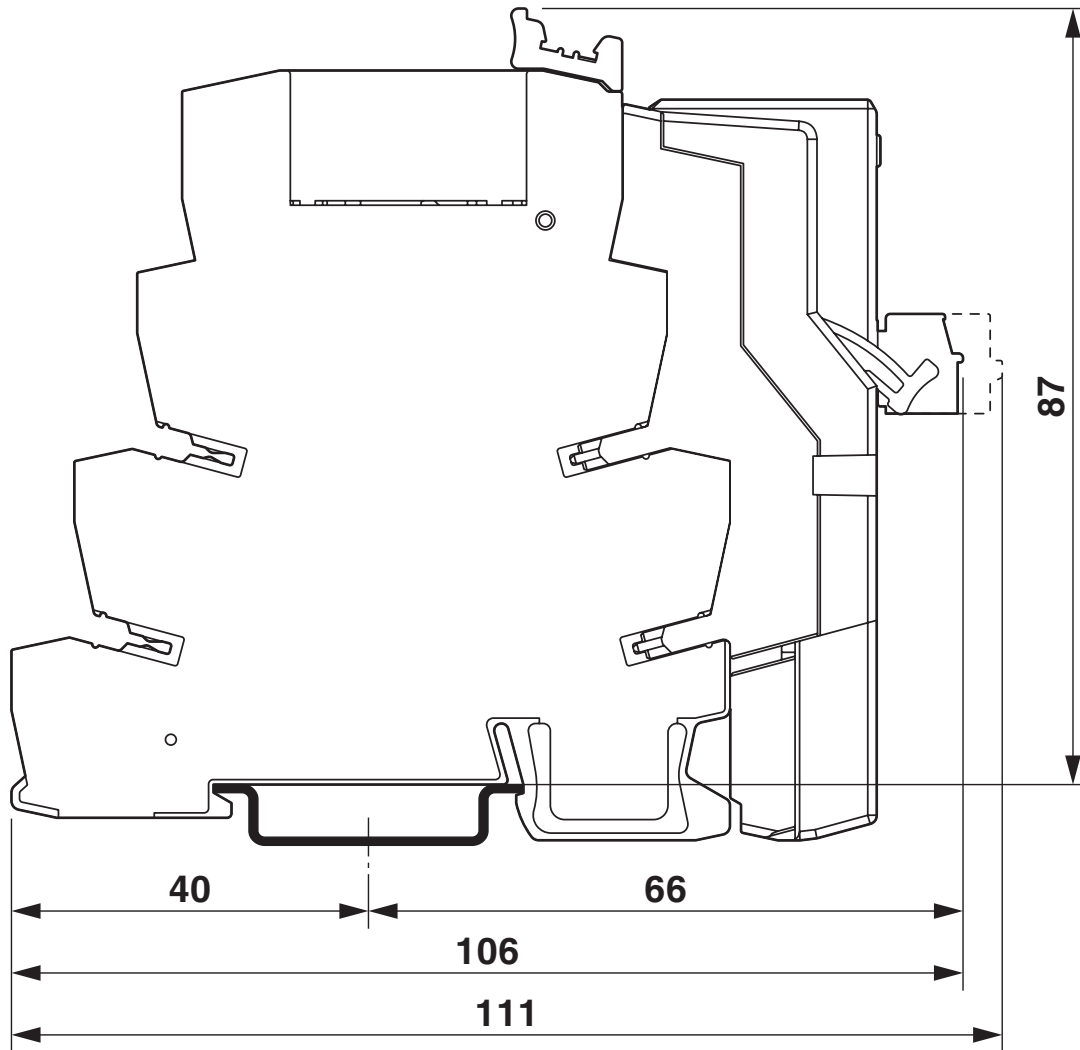
Standards/regulations	DIN EN 50178
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## Mounting

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

Drawings

Dimensional drawing



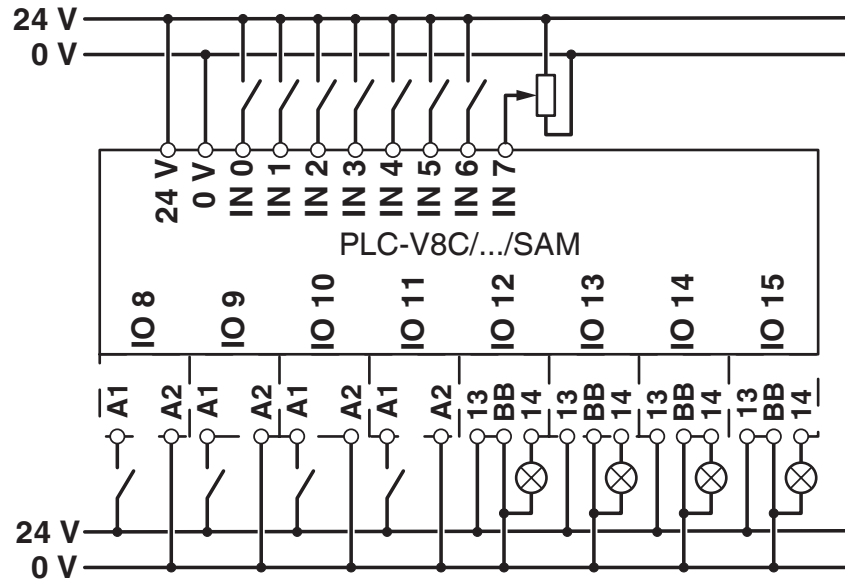
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Connection diagram



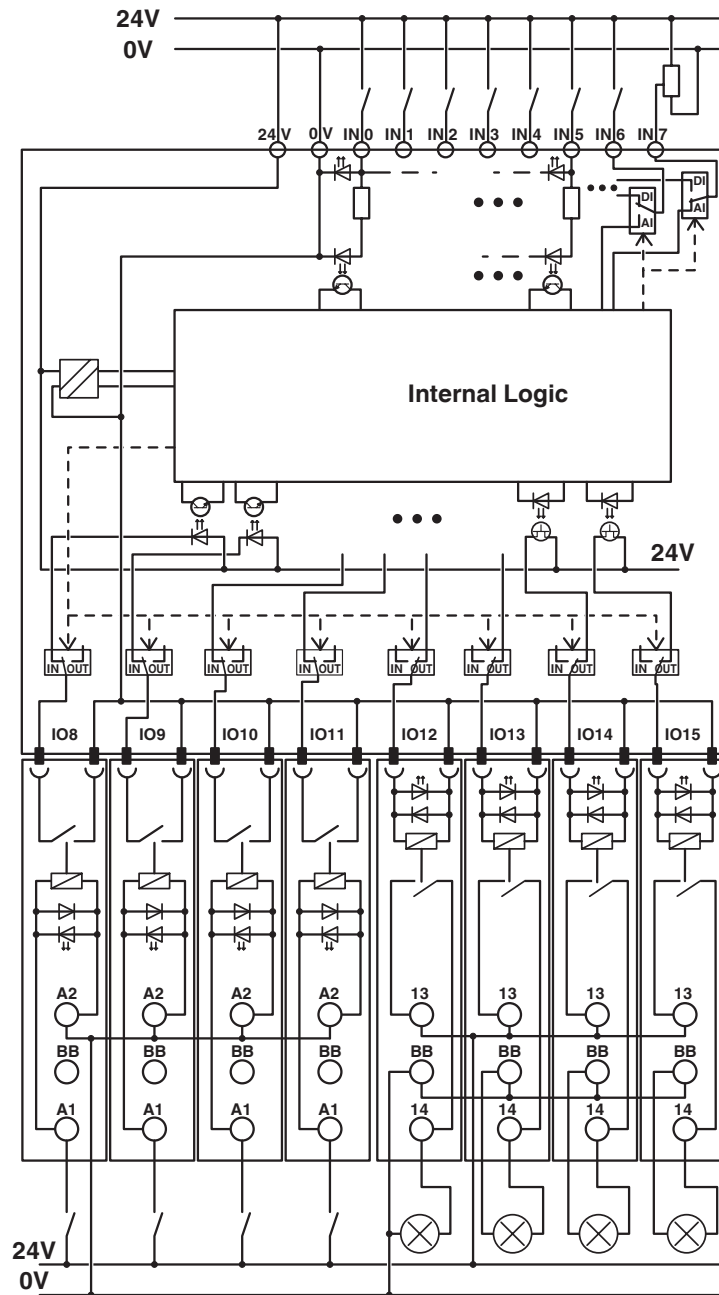
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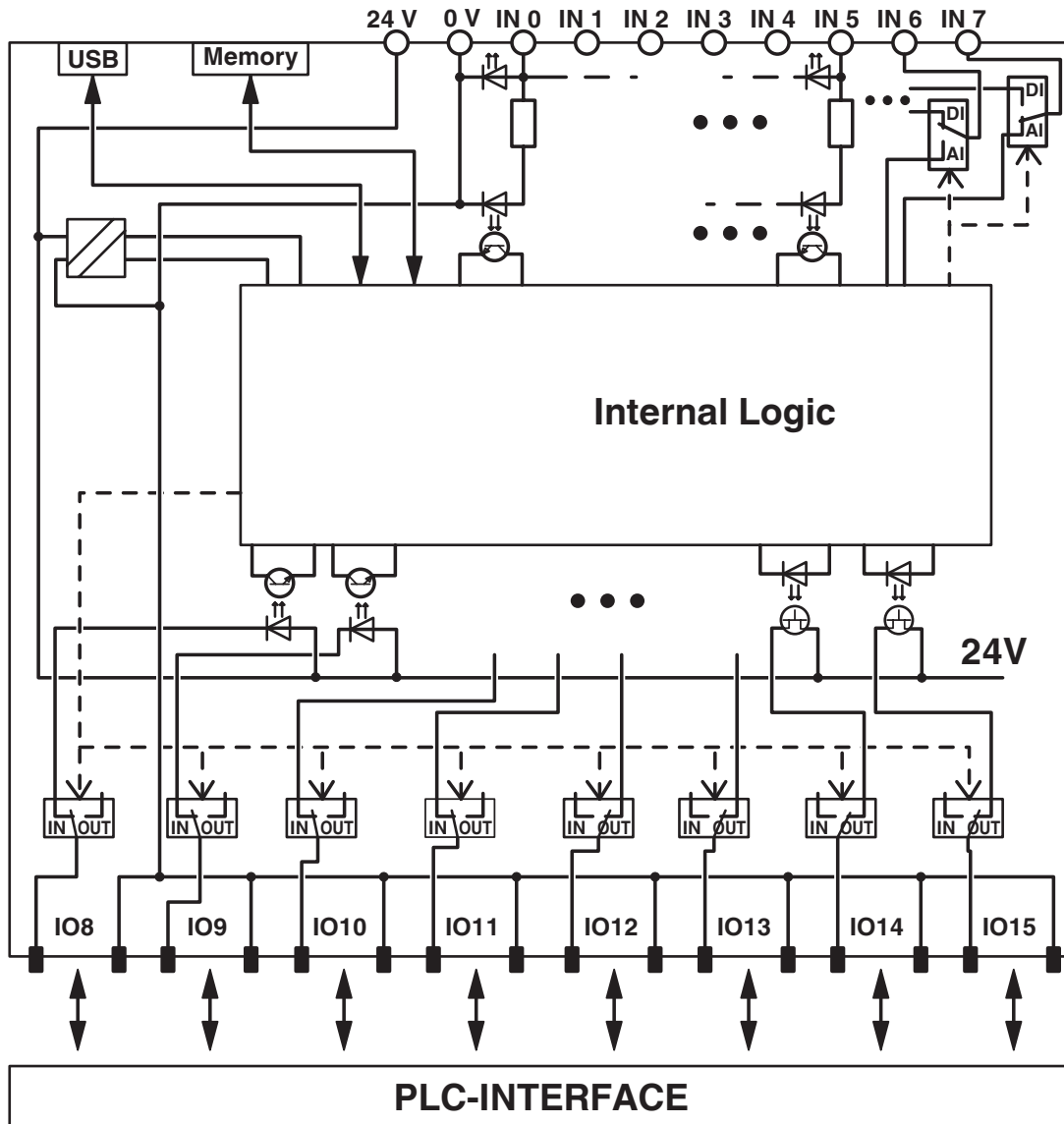
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Circuit diagram



Circuit diagram

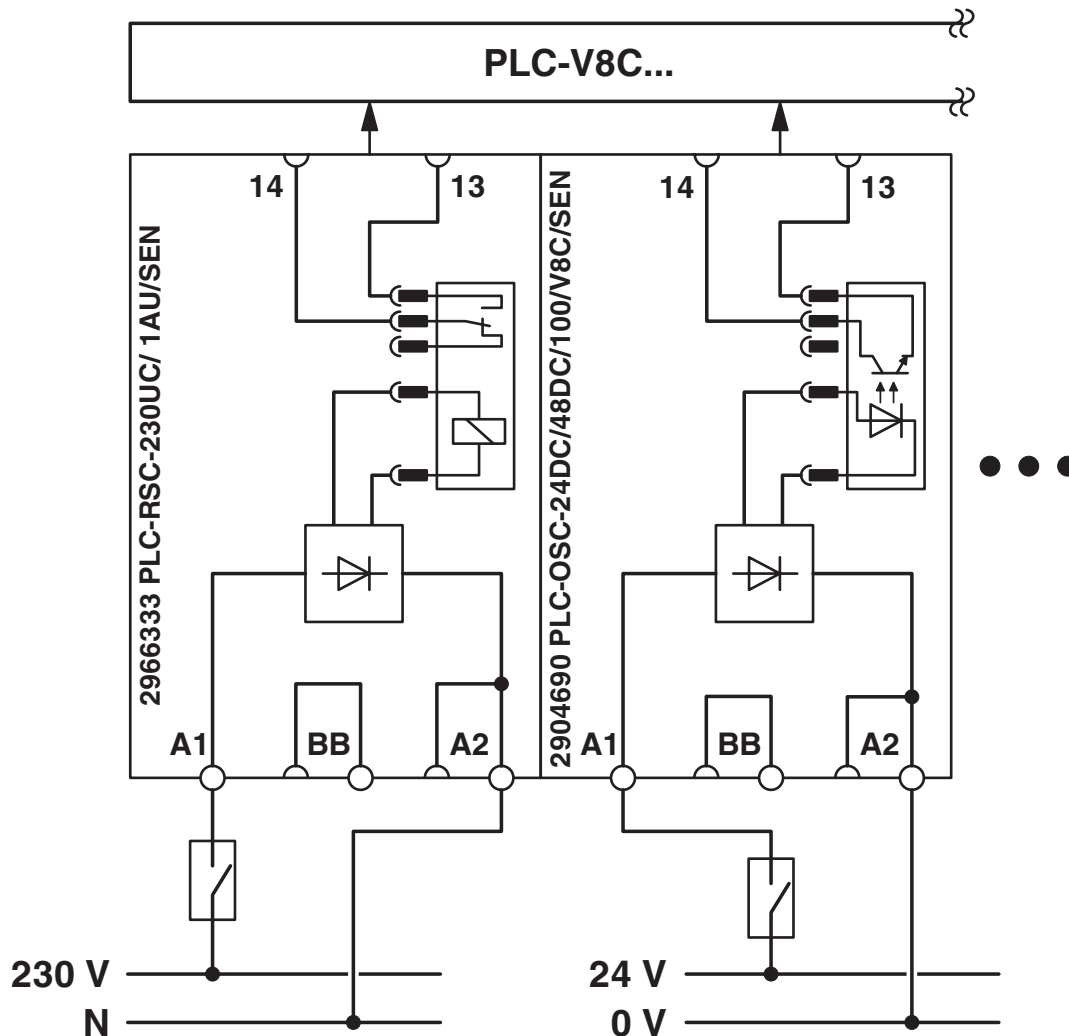


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Circuit diagram



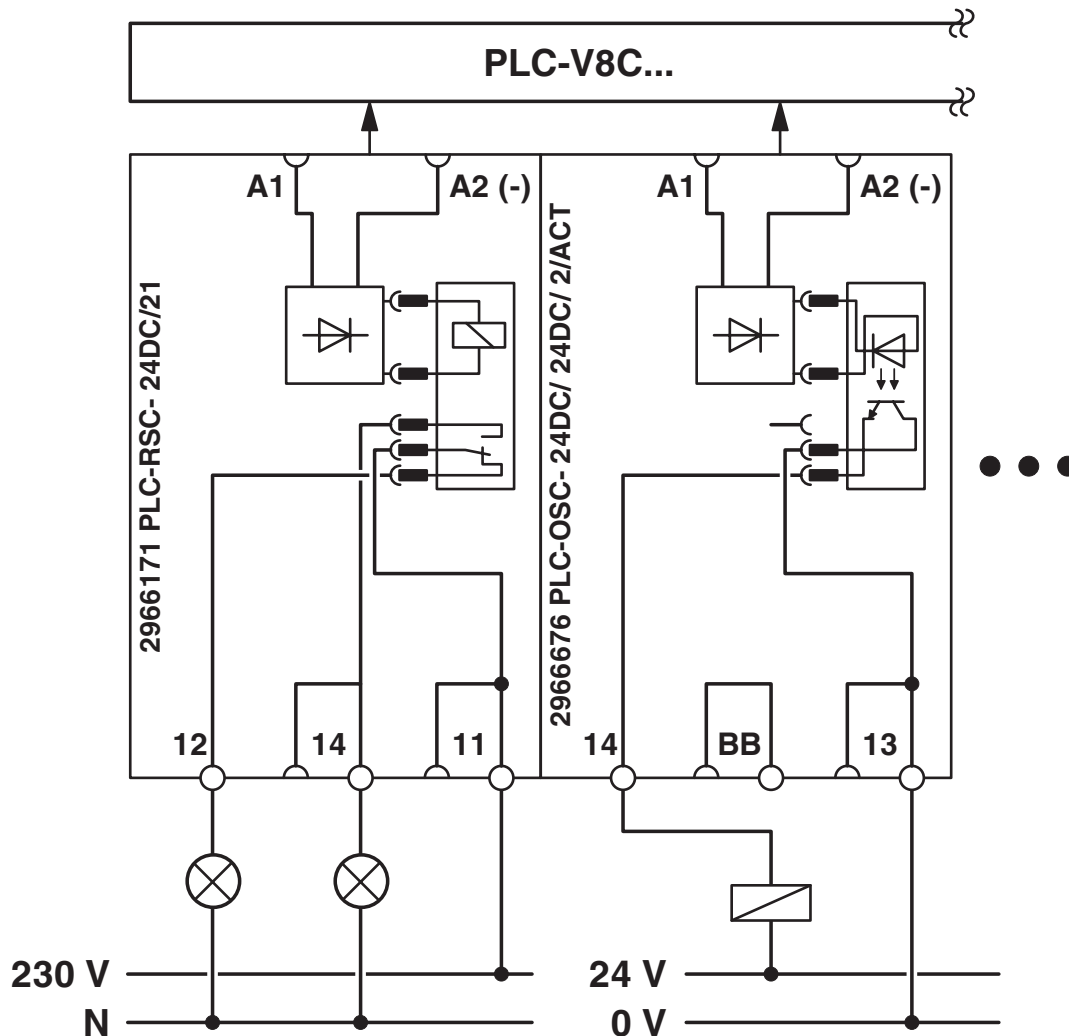
Basic circuit diagram: inputs via PLC-INTERFACE with the example of one input terminal block with relay (230 V AC) and one input terminal block with solid-state relay (24 V DC).

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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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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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