

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

2903094

<https://www.phoenixcontact.com/us/products/2903094>



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PLC logic basic logic module, generation 1, with 16 I/Os, can be plugged onto 8 digital PLC-INTERFACE terminal blocks, can be extended to 48 I/Os, realtime clock, accommodates memory module and Bluetooth adapter (firmware update required, see downloads), screw connection

## Commercial data

Item number	2903094
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C424
Product key	CK2611
Catalog page	Page 455 (C-7-2015)
GTIN	4046356712842
Weight per piece (including packing)	132.1 g
Weight per piece (excluding packing)	132.1 g
Customs tariff number	85371098
Country of origin	DE

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

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## 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.
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

### Product properties

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

### Insulation characteristics

Insulation	Basic insulation
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### 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)
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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
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 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
	0.25 mm² ... 0.5 mm² (Ferrule with plastic sleeve)
	0.25 mm² ... 1.5 mm² (Ferrules without plastic sleeve)
Conductor cross section AWG	28 ... 16

### Programming connection

Connection method	Micro USB type B
Number of connections	1

### INTERFACE system

Connection method	Spring-cage connection
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Stripping length	6 mm
Number of connections	1
Number of positions	3
Conductor cross section rigid	0.14 mm² ... 0.5 mm²
Conductor cross section flexible	0.2 mm² ... 0.5 mm²
Conductor cross section AWG	26 ... 20

## PLC logic - bus

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

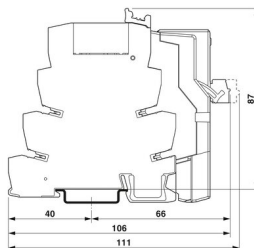
## Memory

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

## Signaling

Status display	Green LED
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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)

## 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

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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 instructions	can be plugged onto 8 x PLC-INTERFACE terminal blocks
Mounting position	any

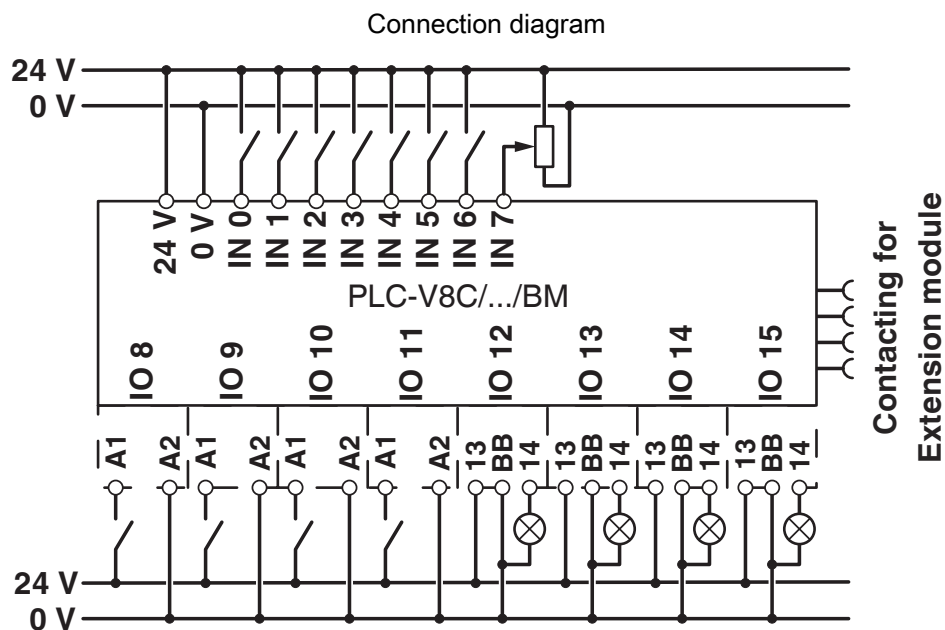
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## Drawings



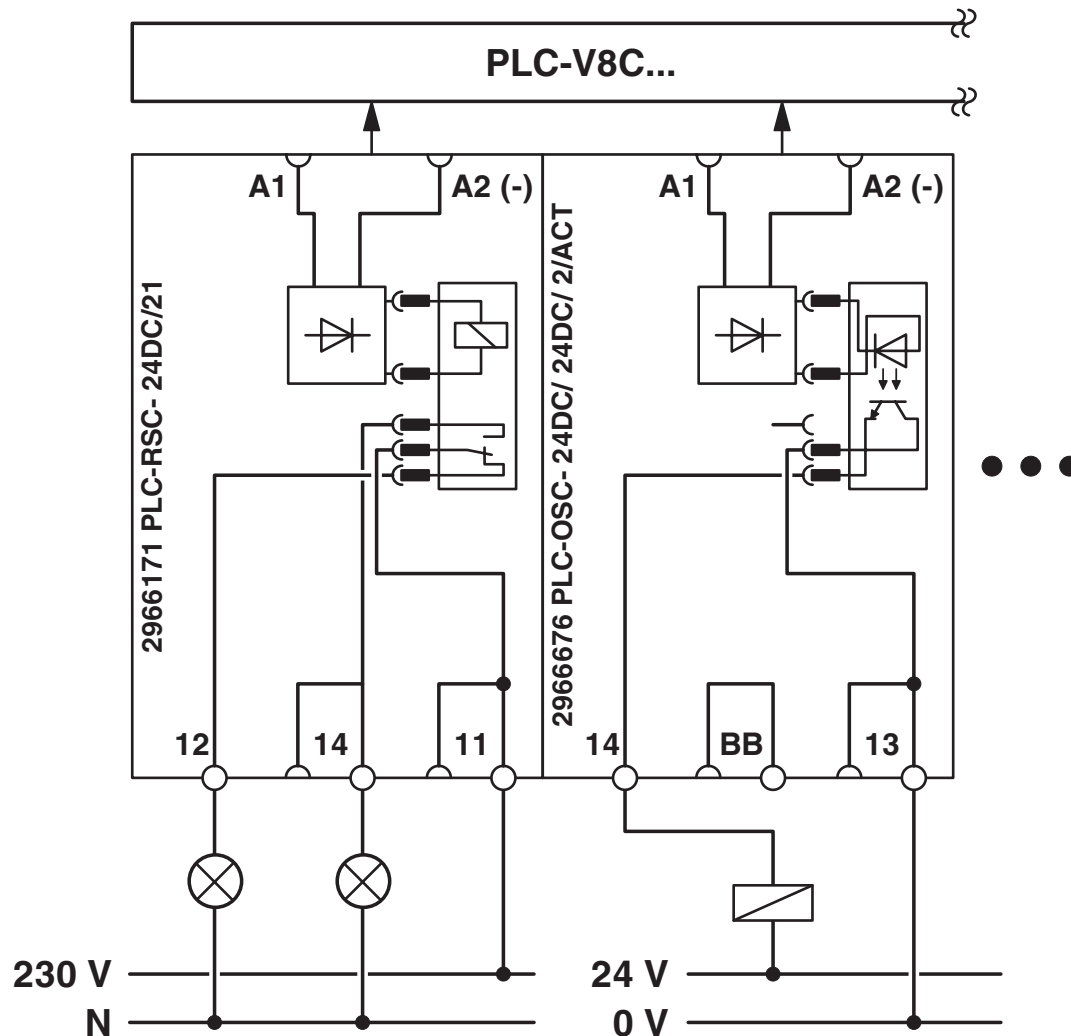
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Circuit diagram



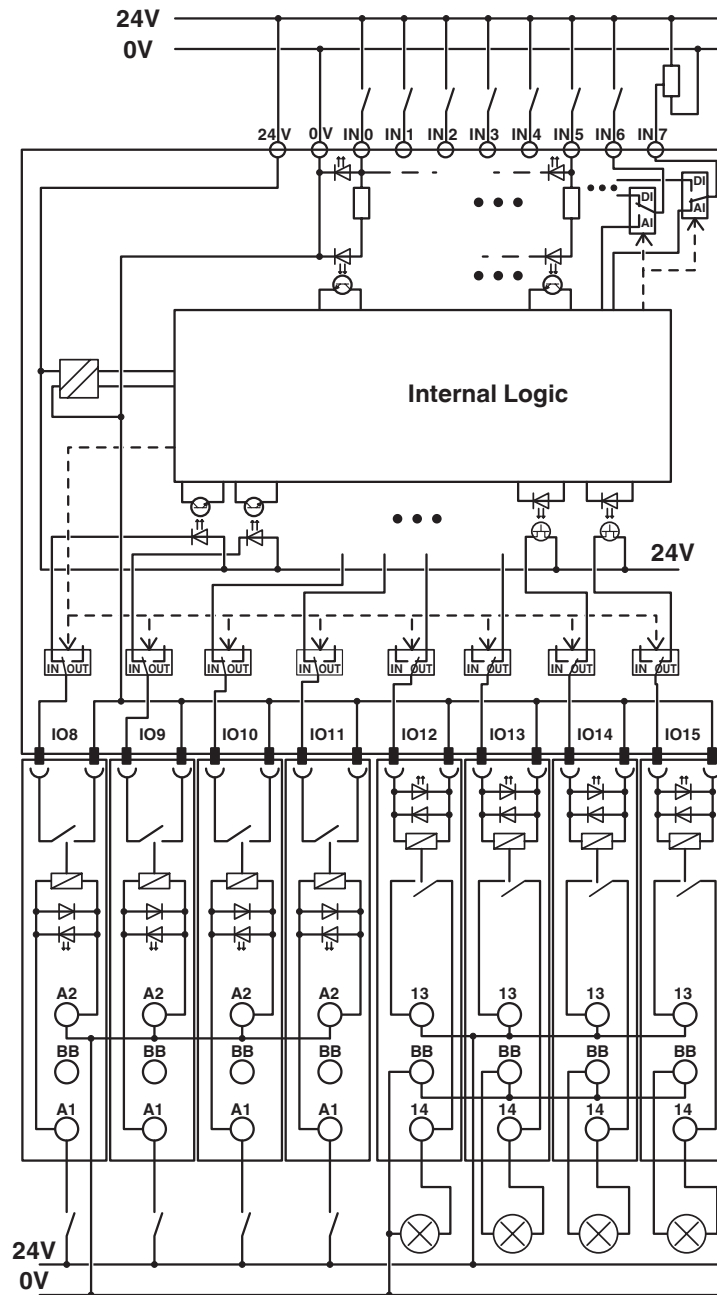
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Circuit diagram



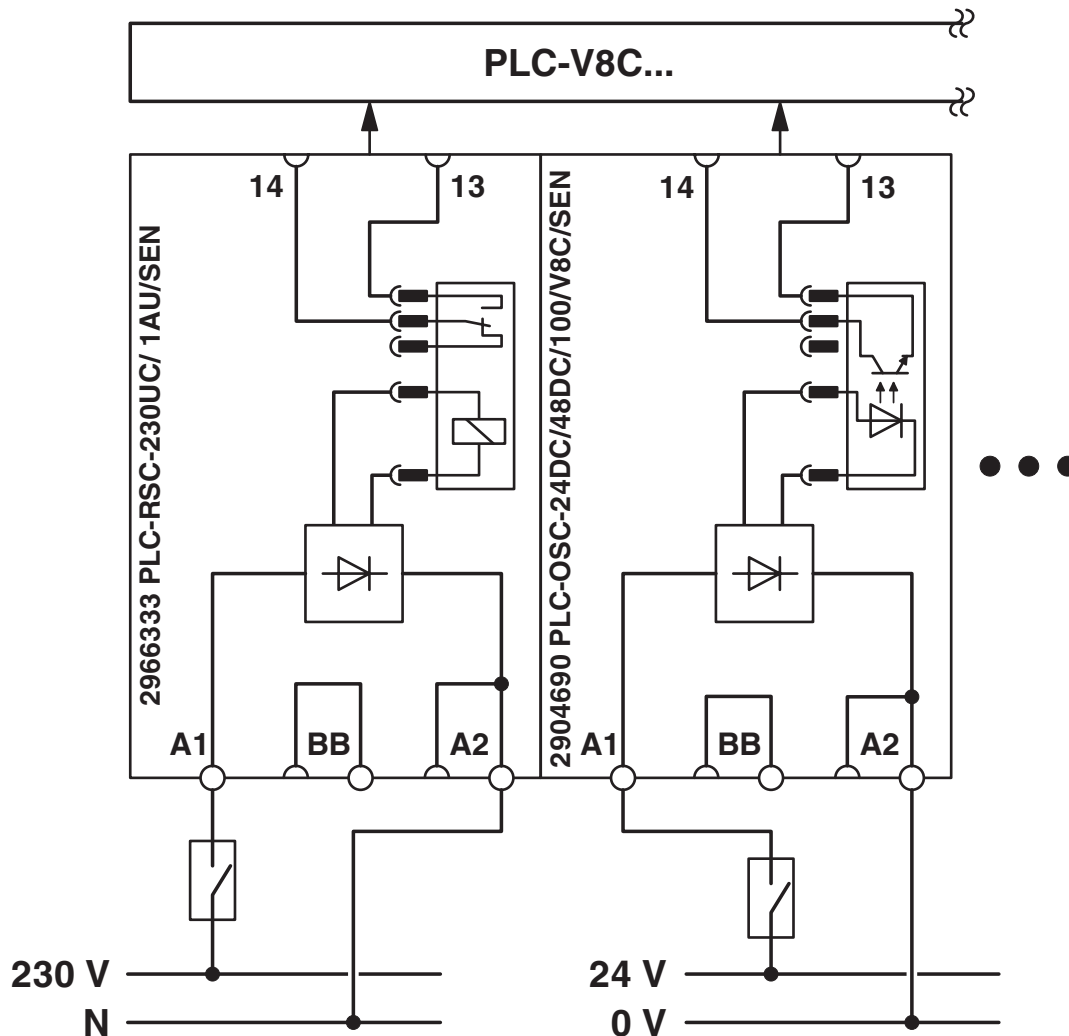
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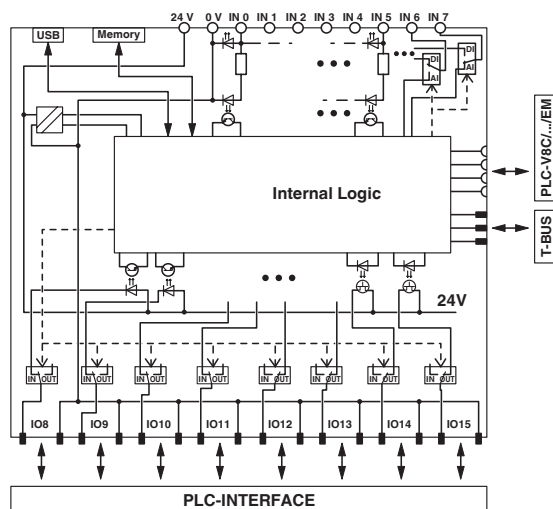
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Circuit diagram



Circuit diagram



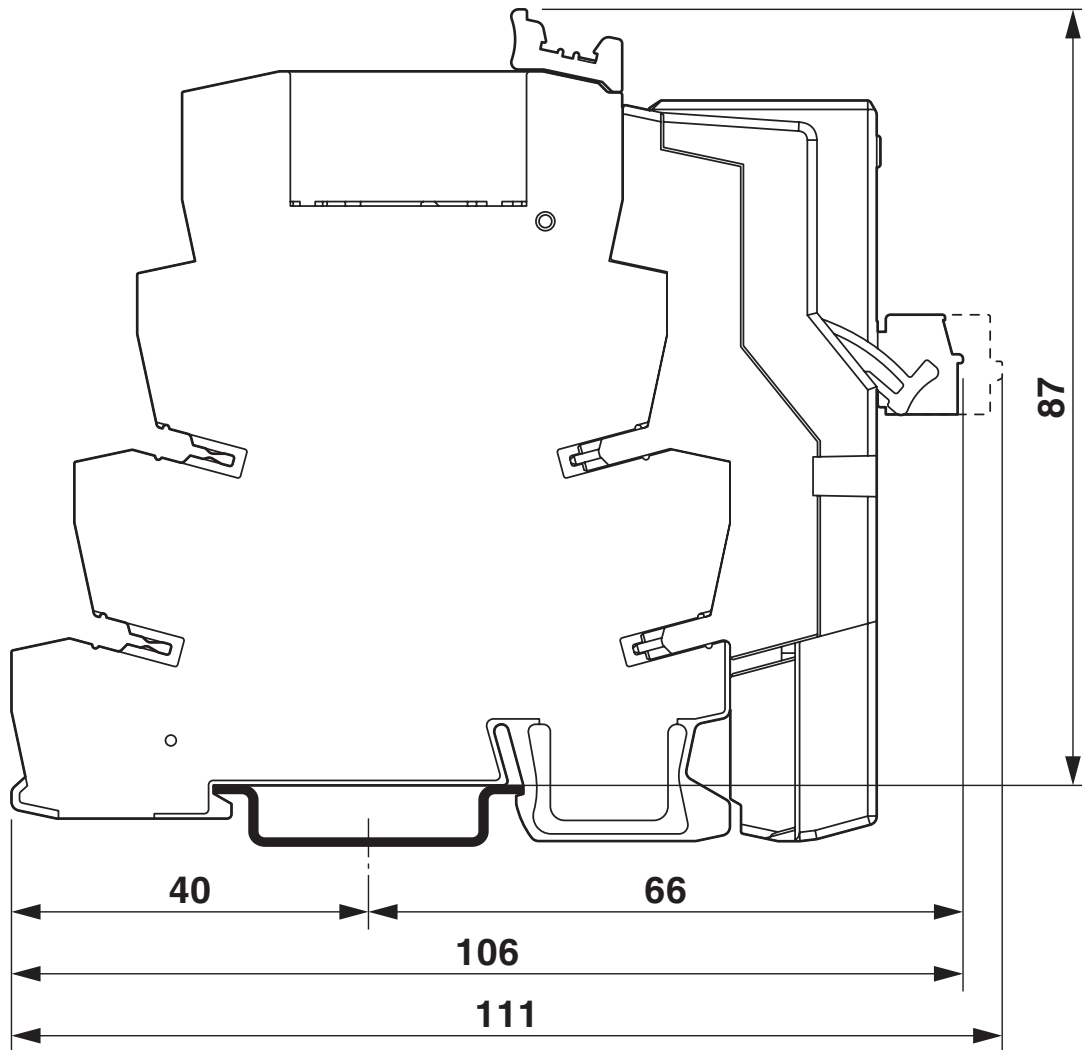
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Dimensional drawing



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## Classifications

### ECLASS

ECLASS-11.0	27242216
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## Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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## Accessories

### PLC-V8C/SC-24DC/EM - Extension module

2903095

<https://www.phoenixcontact.com/us/products/2903095>



PLC logic extension module with 16 I/Os, for plug-in connection to eight PLC-INTERFACE terminal blocks for extending the basic module (a maximum of two extension modules can be connected to a basic module), screw connection

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### IFS-CONFSTICK - Memory block

2986122

<https://www.phoenixcontact.com/us/products/2986122>



Multi-functional memory block for the INTERFACE systemf for easy storage and backup of the configuration.

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## ZBF 19,7:UNBEDRUCKT - Zack marker strips off the roll, flat

0810627

<https://www.phoenixcontact.com/us/products/0810627>



Zack marker strips off the roll, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 19.7 mm, lettering field size: 19.7 x 5.2 mm, Number of individual labels: 5

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## ZBF 19,7 CUS - Zack Marker strip, flat

0825021

<https://www.phoenixcontact.com/us/products/0825021>



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 19.7 mm, lettering field size: 5.15 x 19.7 mm, Number of individual labels: 5

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## CAB-USB A/MICRO USB B/2,0M - Connecting cable

2701626

<https://www.phoenixcontact.com/us/products/2701626>



Connecting cable, for connecting the controller to a PC for PC Worx and LOGIC+, USB A to micro USB B, 2 m in length.

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## PLC-V8C/CAB/TBUS/0,3M - Connecting cable

2905263

<https://www.phoenixcontact.com/us/products/2905263>



Assembled shielded round cable; controller: PLC logic (connection to the DIN rail connector); connection 1: COMBICON connectors (1x 3-position); connection 2: COMBICON connectors (1x 5-position); cable length: 0.3 m

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## SZS 0,4X2,5 VDE - Screwdriver

1205037

<https://www.phoenixcontact.com/us/products/1205037>



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

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## EM-PB-GATEWAY-IFS - Data interface

2297620

<https://www.phoenixcontact.com/us/products/2297620>



Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via PROFIBUS DP. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

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## EM-MODBUS-GATEWAY-IFS - Data interface

2901528

<https://www.phoenixcontact.com/us/products/2901528>



Gateway for the connection of up to 32 INTERFACE system devices via Modbus/TCP to a higher-level controller. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

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## EM-CAN-GATEWAY-IFS - Data interface

2901504

<https://www.phoenixcontact.com/us/products/2901504>



Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via CANopen<sup>®</sup>. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

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## EM-PNET-GATEWAY-IFS - Data interface

2904472

<https://www.phoenixcontact.com/us/products/2904472>



Gateway for the connection of up to 32 INTERFACE system devices via PROFINET to a higher-level controller. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

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## EM-ETH-GATEWAY-IFS - Data interface

2901988

<https://www.phoenixcontact.com/us/products/2901988>



Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via EtherNet/IP™. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.

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

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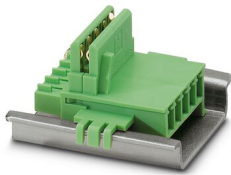
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## ME 22,5 TBUS 1,5/ 5-ST-3,81 GN - DIN rail bus connectors

2707437

<https://www.phoenixcontact.com/us/products/2707437>



DIN rail connector, color: green, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

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## IFS-BT-PROG-ADAPTER - Adapter

2905872

<https://www.phoenixcontact.com/us/products/2905872>



Bluetooth adapter with micro USB and S-PORT interface for wireless communication with the MINI Analog, MINI Analog Pro, MACX Analog, Interface System Gateways, and PLC logic device series.

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## PLC-RPT- 24DC/21 - Relay Module

2900299

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and plug-in miniature relay with power contact, for mounting on NS 35/7,5 DIN rail, 1 changeover contact, input voltage 24 V DC

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## PLC-RPT- 24DC/21AU - Relay Module

2900306

<https://www.phoenixcontact.com/us/products/2900306>



PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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## PLC-RPT- 24DC/ 1/ACT - Relay Module

2900312

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PLC-INTERFACE for output functions, consisting of PLC-BPT.../ACT basic terminal block with push-in connection and plug-in miniature relay with power contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC

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## PLC-RPT- 24UC/ 1/S/H - Switch

2900328

<https://www.phoenixcontact.com/us/products/2900328>



PLC-INTERFACE with switch (operation by hand) and integrated power contact relay for the "Manual, Zero and Automatic" functions, with push-in connection, for mounting on DIN rail NS 35/7.5, one N/O contact, input voltage 24 V AC/DC

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## PLC-RSC- 24DC/21 - Relay Module

2966171

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PLC-INTERFACE, consisting of basic terminal block PLC-BSC.../21 with screw connection and plug-in miniature relay with power contact, for assembly on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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## PLC-RSC- 24DC/21AU - Relay Module

2966265

<https://www.phoenixcontact.com/us/products/2966265>



PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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

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## PLC-RSC- 24UC/ 1/S/H - Switch

2982236

<https://www.phoenixcontact.com/us/products/2982236>



PLC-INTERFACE with switch (operation by hand) for the "Manual, Zero, and Automatic" functions, with screw connection and integrated power contact relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V AC/DC

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## PLC-OPT- 24DC/ 48DC/100 - Solid-state relay module

2900352

<https://www.phoenixcontact.com/us/products/2900352>



PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

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



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## PLC-OPT- 24DC/ 24DC/2 - Solid-state relay module

2900364

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/3 A

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## PLC-OPT- 24DC/230AC/1 - Solid-state relay module

2900369

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

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

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## PLC-OPT- 24DC/ 24DC/2/ACT - Solid-state relay module

2900376

<https://www.phoenixcontact.com/us/products/2900376>



PLC-INTERFACE for output functions, consisting of PLC-BPT.../ACT basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/3 A

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## PLC-OPT- 24DC/300DC/1 - Solid-state relay module

2900383

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PLC-INTERFACE, integrated solid-state relay, with push-in connection, for mounting on NS 35/7,5 DIN rails, input: 24 V DC, output: 12 - 300 V DC/1 A

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

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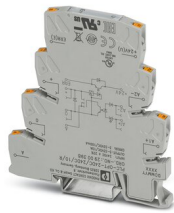
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## PLC-OPT- 24DC/ 24DC/10/R - Solid-state relay module

2900398

<https://www.phoenixcontact.com/us/products/2900398>



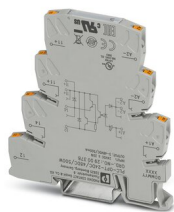
PLC-INTERFACE with confirmation contact, consisting of basic terminal block with push-in connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/10 A

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## PLC-OPT- 24DC/ 48DC/500/W - Solid-state relay module

2900378

<https://www.phoenixcontact.com/us/products/2900378>



PLC-INTERFACE with electronic changeover contact, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input: 24 V DC, output: 3-48 V DC/500 mA

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

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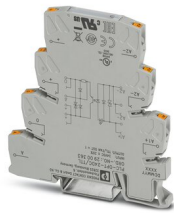
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## PLC-OPT- 24DC/TTL - Solid-state relay module

2900363

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PLC-INTERFACE for TTL signal, consisting of PLC-O.../TTL basic terminal block with push-in connection and integrated solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: TTL (5 V DC)

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## PLC-OSC- 24DC/ 48DC/100 - Solid-state relay module

2966728

<https://www.phoenixcontact.com/us/products/2966728>



PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

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

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## PLC-OSC- 24DC/ 24DC/ 2 - Solid-state relay module

2966634

<https://www.phoenixcontact.com/us/products/2966634>



PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/3 A

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## PLC-OSC- 24DC/230AC/ 1 - Solid-state relay module

2967840

<https://www.phoenixcontact.com/us/products/2967840>



PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

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

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## PLC-OSC- 24DC/ 24DC/ 2/ACT - Solid-state relay module

2966676

<https://www.phoenixcontact.com/us/products/2966676>



PLC-INTERFACE for output functions, consisting of PLC-BSC.../ACT basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/3 A

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## PLC-OSC- 24DC/230AC/ 1/ACT - Solid-state relay module

2967947

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PLC-INTERFACE for output functions, consisting of PLC-BSC.../ACT basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 24 ... 253 V AC/0.75 A

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

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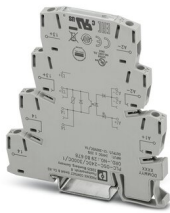
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## PLC-OSC- 24DC/300DC/ 1 - Solid-state relay module

2980678

<https://www.phoenixcontact.com/us/products/2980678>



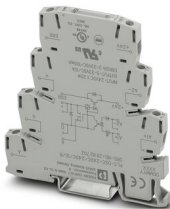
PLC-INTERFACE, integrated solid-state relay, with screw connection, for mounting on NS 35/7,5 DIN rails, input: 24 V DC, output: 12 - 300 V DC/1 A

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## PLC-OSC- 24DC/ 24DC/ 10/R - Solid-state relay module

2982702

<https://www.phoenixcontact.com/us/products/2982702>



PLC-INTERFACE with checkback contact, consisting of basic terminal block with screw connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/10 A

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

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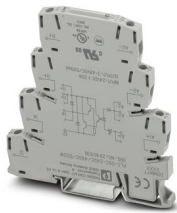
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## PLC-OSC- 24DC/ 48DC/500/W - Solid-state relay module

2980636

<https://www.phoenixcontact.com/us/products/2980636>



PLC-INTERFACE with electronic changeover contact, consisting of PLC-BSC... /21 basic terminal block with screw connection and integrated miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 changeover contact, input: 24 V DC, output: 3 V DC ... 48 V DC/500 mA

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## PLC-OSC- 24DC/TTL - Solid-state relay module

2982728

<https://www.phoenixcontact.com/us/products/2982728>



PLC solid-state relay with screw connection, for mounting on DIN rail NS 35/7.5, input: 24 V DC, output: TTL (5 V DC)

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## PLC-RPT- 24DC/ 1AU/SEN - Relay Module

2900313

<https://www.phoenixcontact.com/us/products/2900313>



PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC

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## PLC-RPT-120UC/ 1AU/SEN - Relay Module

2900314

<https://www.phoenixcontact.com/us/products/2900314>



PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 120 V AC/110 V DC

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

2903094

<https://www.phoenixcontact.com/us/products/2903094>



## PLC-RPT-230UC/ 1AU/SEN - Relay Module

2900315

<https://www.phoenixcontact.com/us/products/2900315>



PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 230 V AC/220 V DC

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## PLC-RSC- 24DC/ 1AU/SEN - Relay Module

2966317

<https://www.phoenixcontact.com/us/products/2966317>



PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC

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

2903094

<https://www.phoenixcontact.com/us/products/2903094>



## PLC-RSC-120UC/ 1AU/SEN - Relay Module

2966320

<https://www.phoenixcontact.com/us/products/2966320>



PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 120 V AC/110 V DC

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## PLC-RSC-230UC/ 1AU/SEN - Relay Module

2966333

<https://www.phoenixcontact.com/us/products/2966333>



PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 230 V AC/220 V DC

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



2903094

<https://www.phoenixcontact.com/us/products/2903094>

## PLC-BSC- 5DC/ 1/SEN - Relay base

2980267

<https://www.phoenixcontact.com/us/products/2980267>



6.2 mm PLC basic terminal block for output functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with load return line connection (BB), 1 N/O contact, input voltage 5 V DC

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## PLC-BPT- 24DC/21 - Relay base

2900445

<https://www.phoenixcontact.com/us/products/2900445>



6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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



2903094

<https://www.phoenixcontact.com/us/products/2903094>

## PLC-BPT- 24DC/ 1/SEN - Relay base

2900262

<https://www.phoenixcontact.com/us/products/2900262>



6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC

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## PLC-BSC- 24DC/21 - Relay base

2966016

<https://www.phoenixcontact.com/us/products/2966016>



6.2 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

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

2903094

<https://www.phoenixcontact.com/us/products/2903094>



## PLC-BSC- 24DC/ 1/SEN - Relay base

2966061

<https://www.phoenixcontact.com/us/products/2966061>



6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC

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