PLC-V8/FLK14/IN/M - System connection

2304115

https://www.phoenixcontact.com/in/products/2304115

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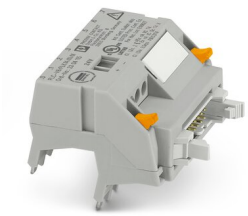


V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of input cards, connection 1: Screw connection 1x, connection 2: IDC/FLK pin strip 1x 14-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: minusschaltend

Commercial Data

Item number	2304115
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK2
Product Key	CK21C1
Catalog Page	Page 427 (C-5-2019)
GTIN	4017918924423
Weight per Piece (including packing)	107.9 g
Weight per Piece (excluding packing)	107.9 g
Customs tariff number	85369010
Country of origin	DE

Technical Data

Product properties

Product type	Interface module
Product family	PLC-INTERFACE
Number of positions	14
No. of channels	8

Insulation characteristics

Overvoltage category	II
Pollution degree	2

Electrical properties

No. of channels	8
Max. permissible operating voltage	30 V DC
Nominal voltage U_N	24 V DC
Max. current carrying capacity per branch	1 A (per signal path)
Max. total current of voltage supply	3 A
Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (Functional insulation)

Supported controller SIEMENS S7-1500

Suitable I/O card	6ES7521-1BH50-0AA0

Supported controller ABB S800 I/O

Suitable I/O card	DI814

Supported controller EMERSON DeltaV

Suitable I/O card	VE4001S2T2B3 Series 2
	VE4001S5T2B5
	VE4001S2T2B5

Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QY41P
	QY42P
	QH42P

Supported controller MITSUBISHI MELSEC L

Suitable I/O card	LY41NT1P
	LY42NT1P

Connection data

Supply

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3

Number of connections	1
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Controller level

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	14
Pitch	2.54 mm

Field level

Connection method	Plug-in connection
Note	Can be snapped onto 8x PLC-INTERFACE terminals

Signaling

Status display	Green LED
Status display present	Yes

Dimensions

Width	50 mm
Height	39 mm
Depth	56 mm

Material specifications

Flammability rating according to UL 94	V0
Housing insulation material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C

Approvals

UL, USA/Canada

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

UL, Canada

Identification	Class I, Zone 2, Ex nA IIC Gc T4 X

UL, USA

Identification	Class I, Zone 2, AEx nA IIC T4

Shipbuilding approval

Certificate	TAE0000196

DNV GL data

Temperature	D
Humidity	A
Vibration	C
Enclosure	Required protection according to the Rules shall be provided upon installation on board

Standards and regulations

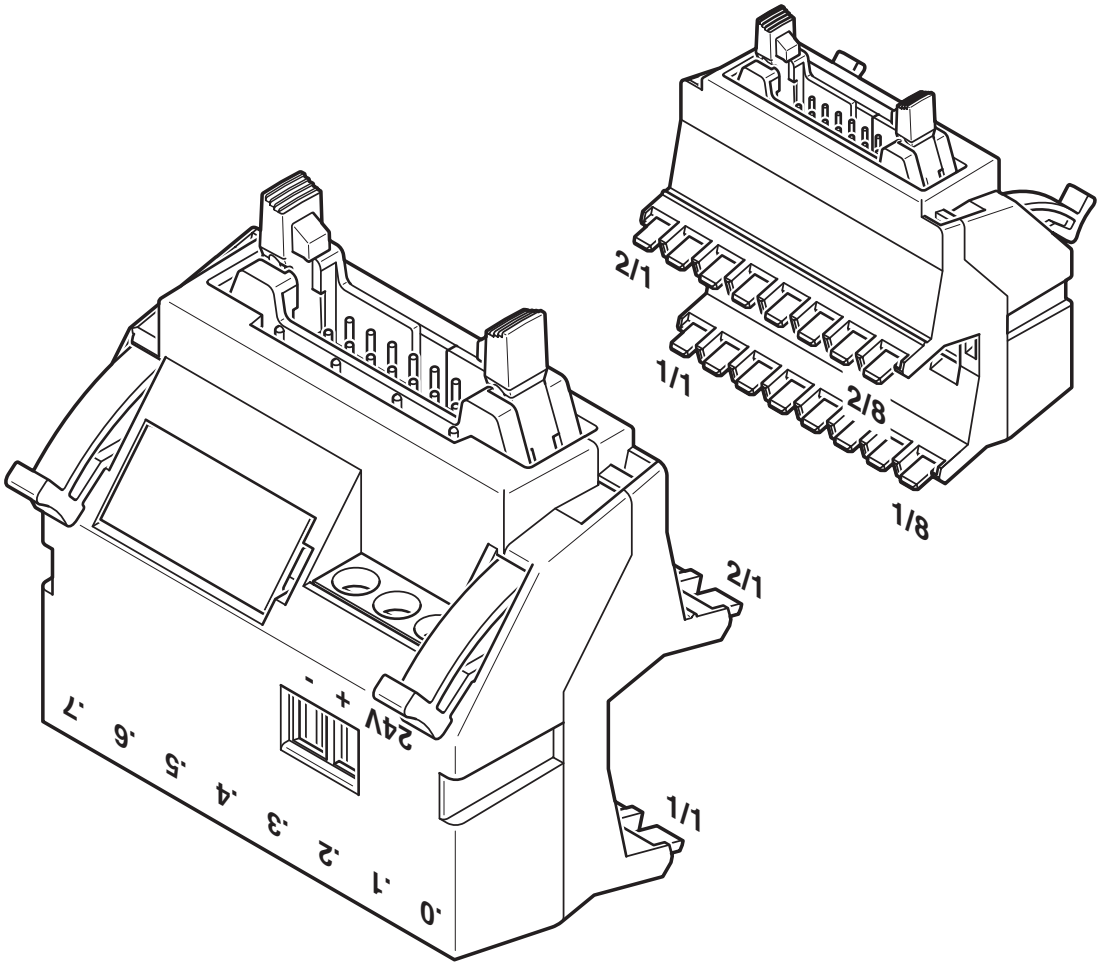
Standards/regulations	IEC 60664
	DIN EN 50178

Mounting

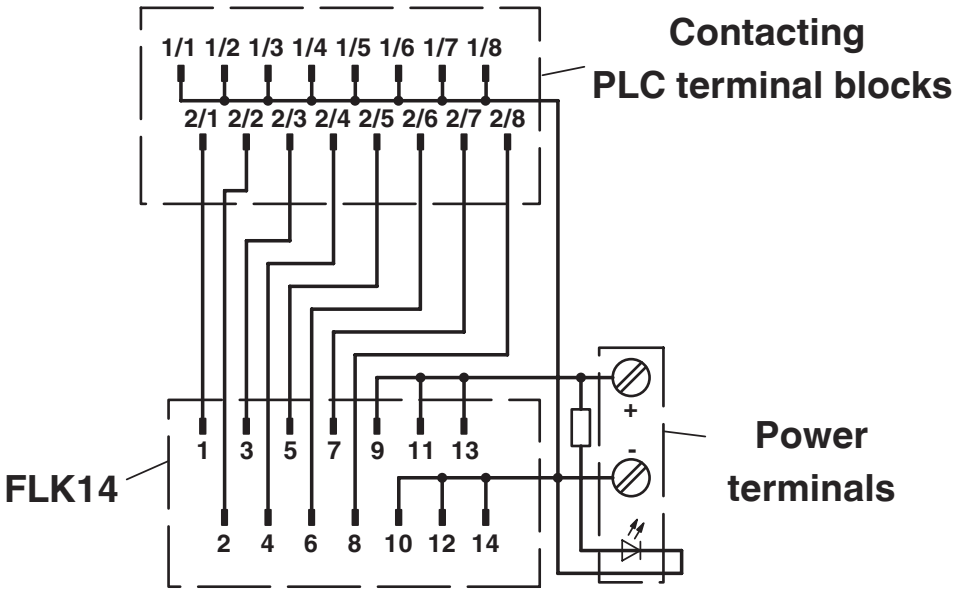
Mounting type	Plug-on assembly
Assembly instructions	in rows with zero spacing
Mounting position	any

Drawings

Schematic diagram



Circuit diagram



Approvals

cUL Recognized
Approval ID: FILE E 238705

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	24 V	1 A	-	-

UL Recognized
Approval ID: FILE E 238705

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	24 V	1 A	-	-

DNV GL
Approval ID: TAE0000196

PRS
Approval ID: TE/2109/880590/16

UL Listed
Approval ID: FILE E 172140

cUL Listed
Approval ID: FILE E 172140

cUL Listed
Approval ID: FILE E 199827

UL Listed
Approval ID: FILE E 199827

Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

ETIM

ETIM 8.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride

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

Mandatory Accessories

PLC-RPT- 12DC/21AU - Relay Module

2900317

https://www.phoenixcontact.com/in/products/2900317

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 12 V DC

PLC-RSC- 12DC/21AU - Relay Module

2966919

https://www.phoenixcontact.com/in/products/2966919

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 12 V DC

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

2900306

https://www.phoenixcontact.com/in/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

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

2966265

https://www.phoenixcontact.com/in/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-RPT- 24UC/21AU - Relay Module

2900307

https://www.phoenixcontact.com/in/products/2900307

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 AC/DC

PLC-RSC- 24UC/21AU - Relay Module

2966278

https://www.phoenixcontact.com/in/products/2966278

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 AC/DC

PLC-RPT- 48DC/21AU - Relay Module

2900308

https://www.phoenixcontact.com/in/products/2900308

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 48 V DC

PLC-RSC- 48DC/21AU - Relay Module

2966126

https://www.phoenixcontact.com/in/products/2966126

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 48 V DC

PLC-RPT- 60DC/21AU - Relay Module

2900309

https://www.phoenixcontact.com/in/products/2900309

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 60 V DC

PLC-RSC- 60DC/21AU - Relay Module

2966142

https://www.phoenixcontact.com/in/products/2966142

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 60 V DC

PLC-RPT-120UC/21AU - Relay Module

2900310

https://www.phoenixcontact.com/in/products/2900310

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 120 V AC/110 V DC

PLC-RSC-120UC/21AU - Relay Module

2966281

https://www.phoenixcontact.com/in/products/2966281

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 120 V AC/110 V DC

PLC-RPT-230UC/21AU - Relay Module

2900311

https://www.phoenixcontact.com/in/products/2900311

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 230 V AC/220 V DC

PLC-RSC-230UC/21AU - Relay Module

2966294

https://www.phoenixcontact.com/in/products/2966294

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 230 V AC/220 V DC

PLC-BPT-120UC/21/SO46 - Relay base

2900453

https://www.phoenixcontact.com/in/products/2900453

6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

PLC-BSC-120UC/21/SO46 - Relay base

2980319

https://www.phoenixcontact.com/in/products/2980319

6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 120 V AC

PLC-BPT-230UC/21/SO46 - Relay base

2900455

https://www.phoenixcontact.com/in/products/2900455

6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

PLC-BSC-230UC/21/SO46 - Relay base

2980335

https://www.phoenixcontact.com/in/products/2980335

6.2 mm PLC basic terminal block with protection against interference currents/voltages on the control side, with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

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

2900352

https://www.phoenixcontact.com/in/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-OSC- 24DC/ 48DC/100 - Solid-state relay module

2966728

https://www.phoenixcontact.com/in/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-OPT- 48DC/ 48DC/100 - Solid-state relay module

2900353

https://www.phoenixcontact.com/in/products/2900353

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: 48 V DC, output: 3 - 48 V DC/100 mA

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

2966993

https://www.phoenixcontact.com/in/products/2966993

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: 48 V DC, output: 3 - 48 V DC/100 mA

PLC-OPT- 60DC/ 48DC/100 - Solid-state relay module

2900354

https://www.phoenixcontact.com/in/products/2900354

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: 60 V DC, output: 3 - 48 V DC/100 mA

PLC-OSC- 60DC/ 48DC/100 - Solid-state relay module

2967455

https://www.phoenixcontact.com/in/products/2967455

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: 60 V DC, output: 3 - 48 V DC/100 mA

PLC-OPT-120UC/ 48DC/100 - Solid-state relay module

2900355

https://www.phoenixcontact.com/in/products/2900355

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: 120 V AC/110 V DC, output: 3 - 48 V DC/100 mA

PLC-OSC-120UC/ 48DC/100 - Solid-state relay module

2966744

https://www.phoenixcontact.com/in/products/2966744

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: 120 V AC/110 V DC, output: 3 - 48 V DC/100 mA

PLC-OPT-230UC/ 48DC/100 - Solid-state relay module

2900356

https://www.phoenixcontact.com/in/products/2900356

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: 230 V AC/220 V DC, output: 3 - 48 V DC/100 mA

PLC-OSC-230UC/ 48DC/100 - Solid-state relay module

2966757

https://www.phoenixcontact.com/in/products/2966757

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: 230 V AC/220 V DC, output: 3 - 48 V DC/100 mA

PLC-PT-EIK 1-SVN 24P/P - Solid-state relay module

2900397

https://www.phoenixcontact.com/in/products/2900397

PLC-INTERFACE for NAMUR applications, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and integrated circuit, for mounting on NS 35/7,5 DIN rail, positive switching output, 24 V DC supply voltage

PLC-SC-EIK 1-SVN 24P/P - Solid-state relay module

2982663

https://www.phoenixcontact.com/in/products/2982663

PLC-INTERFACE for NAMUR applications, consisting of PLC-BSC.../21 basic terminal block with screw connection and integrated circuit, for mounting on NS 35/7,5 DIN rail, positive switching output, 24 V DC supply voltage

PLC-VT - Feed-through terminal block

2296870

https://www.phoenixcontact.com/in/products/2296870

VARIOFACE feed-through terminal block (2-conductor screw connection), for PLC-INTERFACE universal series

PLC-VT/LA - Feed-through terminal block

2296854

https://www.phoenixcontact.com/in/products/2296854

VARIOFACE feed-through terminal block (2-conductor screw connection), for PLC-INTERFACE universal series, with 24 V DC LED display

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

2900313

https://www.phoenixcontact.com/in/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

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

2966317

https://www.phoenixcontact.com/in/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-RPT-120UC/ 1AU/SEN - Relay Module

2900314

https://www.phoenixcontact.com/in/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-RSC-120UC/ 1AU/SEN - Relay Module

2966320

https://www.phoenixcontact.com/in/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

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

2900315

https://www.phoenixcontact.com/in/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

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

2966333

https://www.phoenixcontact.com/in/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-BPT-120UC/ 1/SEN/SO46 - Relay base

2900456

https://www.phoenixcontact.com/in/products/2900456

6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with push-in connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

PLC-BSC-120UC/ 1/SEN/SO46 - Relay base

2980322

https://www.phoenixcontact.com/in/products/2980322

6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 120 V AC

PLC-BPT-230UC/ 1/SEN/SO46 - Relay base

2900457

https://www.phoenixcontact.com/in/products/2900457

6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with push-in connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

PLC-BSC-230UC/ 1/SEN/SO46 - Relay base

2980348

https://www.phoenixcontact.com/in/products/2980348

6.2 mm PLC basic terminal block with interference current and interference voltage protection on the control side, with screw connection, without relay or solid-state relay, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 230 V AC

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

2900358

https://www.phoenixcontact.com/in/products/2900358

PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN 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-OSC- 24DC/ 48DC/100/SEN - Solid-state relay module

2966773

https://www.phoenixcontact.com/in/products/2966773

PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN 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-OPT-120UC/ 48DC/100/SEN - Solid-state relay module

2900359

https://www.phoenixcontact.com/in/products/2900359

PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN 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: 120 V AC/110 V DC, output: 3 - 48 V DC/100 mA

PLC-OSC-120UC/ 48DC/100/SEN - Solid-state relay module

2966799

https://www.phoenixcontact.com/in/products/2966799

PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN 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: 120 V AC/110 V DC, output: 3 - 48 V DC/100 mA

PLC-OPT-230UC/ 48DC/100/SEN - Solid-state relay module

2900361

https://www.phoenixcontact.com/in/products/2900361

PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN 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: 230 V AC/220 V DC, output: 3 - 48 V DC/100 mA

PLC-OSC-230UC/ 48DC/100/SEN - Solid-state relay module

2966809

https://www.phoenixcontact.com/in/products/2966809

PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN 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: 230 V AC/220 V DC, output: 3 - 48 V DC/100 mA

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