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.

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 230 V AC/DC

Relay base - PLC-BPT-230UC/21

2900281

https://www.phoenixcontact.com/us/products/2900281

Commercial Data

Item number	2900281
Packing unit	1 pc
Minimum order quantity	10 pc
Sales Key	C05
Product Key	CK6231
GTIN	4046356510127
Weight per Piece (including packing)	31.16 g
Weight per Piece (excluding packing)	31.16 g
Customs tariff number	85366990
Country of origin	DE

Relay base - PLC-BPT-230UC/21

2900281

https://www.phoenixcontact.com/us/products/2900281

Technical Data

Notes

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

Product properties

Product type	Relay socket
Set comprises	2900305 PLC-RPT-230UC/21
	2900311 PLC-RPT-230UC/21AU
	2900356 PLC-OPT-230UC/ 48DC/100
	2900368 PLC-OPT-230UC/ 24DC/2
	2900374 PLC-OPT-230UC/230AC/1
Application	Universal
Operating mode	100% operating factor
Insulation characteristics	
Overvoltage category	II
Pollution degree	3

Electrical properties

Protective circuit	Bridge rectifier

Input data

Nominal input voltage U_N	230 V AC/DC
Protective circuit	Bridge rectifier

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14

LED signaling

Status display	LED

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approval data

Corrosive gas test

Identification	ISA-S71.04. G3 Harsh Group
	EN 60068-2-60

Mounting

Mounting type	DIN rail mounting
Mounting position	any

Relay base - PLC-BPT-230UC/21

2900281

https://www.phoenixcontact.com/us/products/2900281

Approvals

	cUL Recognized
	Approval ID: FILE E 238705

	UL Recognized
	Approval ID: FILE E 238705

	EAC
	Approval ID: RU D-DE.B*00573/18

DNV GL
Approval ID: TAE0000196

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
			-	-

cULus Recognized

Classifications

ECLASS

ECLASS-9.0	27371603
ECLASS-10.0.1	27371603
ECLASS-11.0	27371603

ETIM

ETIM 8.0	EC001456

UNSPSC

UNSPSC 21.0	39122300

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

Single relay

Single relay - REL-MR- 60DC/21AU - 2961134

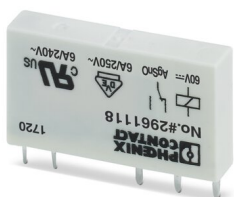https://www.phoenixcontact.com/us/products/2961134
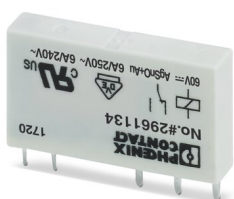
Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 60 V DC

Single relay

Single relay - REL-MR- 60DC/21 - 2961118

https://www.phoenixcontact.com/us/products/2961118

Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 60 V DC

Miniature solid-state relay

Miniature solid-state relay - OPT-60DC/ 48DC/100 - 2966621

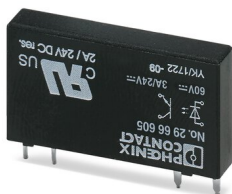https://www.phoenixcontact.com/us/products/2966621

Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 - 48 V DC/100 mA

Miniature solid-state relay

Miniature solid-state relay - OPT-60DC/ 24DC/ 2 - 2966605

https://www.phoenixcontact.com/us/products/2966605

Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 ... 33 V DC/3 A
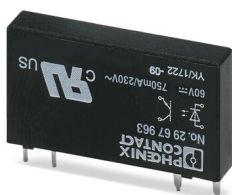
PHŒNIX CONTACT

Miniature solid-state relay

Miniature solid-state relay - OPT-60DC/230AC/ 1 - 2967963

https://www.phoenixcontact.com/us/products/2967963

Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input: 60 V DC, output: 24 - 253 V AC/0.75 A

Accessories

ⓘ Note: Applying some accessories below might limit this product.

Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786

https://www.phoenixcontact.com/us/products/2966786

Continuous plug-in bridge, color: red

ⓘ Max. current carrying capacity: 32 A

Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC BU - 2966692

https://www.phoenixcontact.com/us/products/2966692

Continuous plug-in bridge, color: blue

ℹ Max. current carrying capacity: 32 A

Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC GY - 2966838

https://www.phoenixcontact.com/us/products/2966838

Continuous plug-in bridge, color: gray

ℹ Max. current carrying capacity: 32 A

PHŒNIX CONTACT

Single plug-in bridge

Single plug-in bridge - FBST   6-PLC RD - 2966236

https://www.phoenixcontact.com/us/products/2966236

Single plug-in bridge, color: red
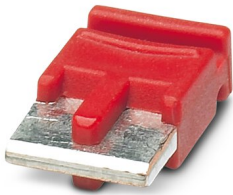
ⓘ Max. current carrying capacity: 6 A

Single plug-in bridge

Single plug-in bridge - FBST   6-PLC BU - 2966812

https://www.phoenixcontact.com/us/products/2966812

Single plug-in bridge, color: blue
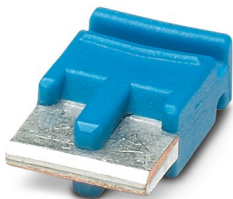
ⓘ Max. current carrying capacity: 6 A

Single plug-in bridge

Single plug-in bridge - FBST   6-PLC GY - 2966825

https://www.phoenixcontact.com/us/products/2966825

Single plug-in bridge, color: gray
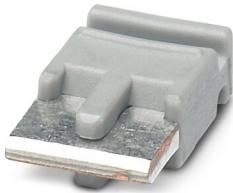
ⓘ Max. current carrying capacity: 6 A

Single plug-in bridge

Single plug-in bridge - FBST   8-PLC GY - 2967688

https://www.phoenixcontact.com/us/products/2967688

Single plug-in bridge, color: gray

ⓘ Max. current carrying capacity: 6 A

Power terminal block

Power terminal block - PLC-ESK GY - 2966508

https://www.phoenixcontact.com/us/products/2966508

Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

Zack marker strip

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003

https://www.phoenixcontact.com/us/products/1051003

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Separating plate

Separating plate - PLC-ATP BK - 2966841

https://www.phoenixcontact.com/us/products/2966841

Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

Zack marker strip

Zack marker strip - ZB 6 CUS - 0824992

https://www.phoenixcontact.com/us/products/0824992

Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Screwdriver

Screwdriver - SZF 1-0,6X3,5 - 1204517

https://www.phoenixcontact.com/us/products/1204517

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Zack marker strip

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016

https://www.phoenixcontact.com/us/products/1051016

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10

System connection

System connection - PLC-V8/FLK14/OUT - 2295554

https://www.phoenixcontact.com/us/products/2295554

V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output 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: plusschaltend

Zack marker strip

Zack marker strip - ZB 6,QR:FORTL.ZAHLEN - 1051029

https://www.phoenixcontact.com/us/products/1051029

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

System connection

System connection - PLC-V8/FLK14/OUT/M - 2304102

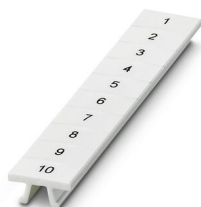https://www.phoenixcontact.com/us/products/2304102

V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output 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

Zack marker strip

Zack marker strip - ZB 6,LGS:GLEICHE ZAHLEN - 1051032

https://www.phoenixcontact.com/us/products/1051032

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Adapter module

Adapter module - PLC-V8/D15S/OUT - 2296058

https://www.phoenixcontact.com/us/products/2296058

V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: Screw connection 1x, connection 2: D-SUB pin strip 1x 15-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: plusschaltend

Marker for terminal blocks

Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414

https://www.phoenixcontact.com/us/products/1051414

Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

System connection

System connection - PLC-V8/D15B/OUT - 2296061
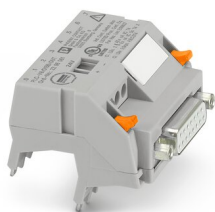
https://www.phoenixcontact.com/us/products/2296061

V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: Screw connection 1x, connection 2: D-SUB socket strip 1x 15-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: plusschaltend

Marker for terminal blocks

Marker for terminal blocks - ZB 6,LGS:U-N - 1051430

https://www.phoenixcontact.com/us/products/1051430

Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

Fuse adapter

Fuse adapter - PLC-FA-5X20 - 1186510

https://www.phoenixcontact.com/us/products/1186510

Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5 x 20 mm fuses. Operating voltage: Universal. Without fuse failure indication.

Marker for terminal blocks

Marker for terminal blocks - UC-TM 6 - 0818085

https://www.phoenixcontact.com/us/products/0818085

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

Fuse adapter

Fuse adapter - PLC-FA-I-5X20-12-24UC - 1186499

https://www.phoenixcontact.com/us/products/1186499

Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5 x 20 mm fuses. Operating voltage: 12 ... 24 V AC/DC. With LED for fuse failure indication.

Marker for terminal blocks

Marker for terminal blocks - UC-TM 6 CUS - 0824589

https://www.phoenixcontact.com/us/products/0824589

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

Fuse adapter

Fuse adapter - PLC-FA-I-5X20-120-230UC - 1186508

https://www.phoenixcontact.com/us/products/1186508

Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5 x 20 mm fuses. Operating voltage: 120 ... 230 V AC/DC. With LED for fuse failure indication.

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 - 0828736

https://www.phoenixcontact.com/us/products/0828736

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

2900281

https://www.phoenixcontact.com/us/products/2900281

Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 CUS - 0829602

https://www.phoenixcontact.com/us/products/0829602

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

DIN rail perforated

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

https://www.phoenixcontact.com/us/products/0801733

DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

Relay base - PLC-BPT-230UC/21

2900281

https://www.phoenixcontact.com/us/products/2900281

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

https://www.phoenixcontact.com/us/products/0801681

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail perforated

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119

https://www.phoenixcontact.com/us/products/1204119

DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - 1204122

https://www.phoenixcontact.com/us/products/1204122

DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

https://www.phoenixcontact.com/us/products/0801704

DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail perforated

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421

https://www.phoenixcontact.com/us/products/1206421

DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

https://www.phoenixcontact.com/us/products/1206434

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - 0801762

https://www.phoenixcontact.com/us/products/0801762

DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

End cap

End cap - NS 35/ 7,5 CAP - 1206560

https://www.phoenixcontact.com/us/products/1206560

DIN rail end piece, for DIN rail NS 35/7.5

DIN rail perforated

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

https://www.phoenixcontact.com/us/products/1201730

DIN rail perforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714

https://www.phoenixcontact.com/us/products/1201714

DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail perforated

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602

https://www.phoenixcontact.com/us/products/0806602

DIN rail perforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: white, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM-VPE 10 - 1204135

https://www.phoenixcontact.com/us/products/1204135

DIN rail, unperforated, similar to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756

https://www.phoenixcontact.com/us/products/1201756

DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

DIN rail perforated

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599

https://www.phoenixcontact.com/us/products/1206599

DIN rail perforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586

https://www.phoenixcontact.com/us/products/1206586

DIN rail, unperforated, similar to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

DIN rail, unperforated

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM-VPE 10 - 1201895

https://www.phoenixcontact.com/us/products/1201895

DIN rail, unperforated, similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

End cap

End cap - NS 35/15 CAP - 1206573

https://www.phoenixcontact.com/us/products/1206573

DIN rail end piece, for DIN rail NS 35/15

DIN rail, unperforated

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM-VPE 10 - 1201798

https://www.phoenixcontact.com/us/products/1201798

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver, Pack of 10 (20 m)