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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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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 120 V AC/DC

Commercial data

Item number	2966032
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CK6221
Product key	CK6221
GTIN	4017918130770
Weight per piece (including packing)	35.32 g
Weight per piece (excluding packing)	29.12 g
Customs tariff number	85366990
Country of origin	DE

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PLC-BSC-120UC/21 - Relay base

2966032

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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
Product family	PLC-INTERFACE
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	120 V AC/DC
	The nominal voltage of the plug-on electromechanical relay or solid-state relay (see necessary accessories) deviates from the nominal input voltage of the base with integrated upstream circuit
Protective circuit	Bridge rectifier

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	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 ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14
Tightening torque	0.6 Nm ... 0.8 Nm

Signaling

Status display	LED

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

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PLC-BSC-120UC/21 - Relay base

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Material specifications

Color	gray (RAL 7042)
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

Approvals

CE

Certificate	CE-compliant

UKCA

Certificate	UKCA-compliant

Shipbuilding approval

Certificate	TAE0000196

Corrosive gas test

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

DNV GL data

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

EMC data

Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive

Standards and regulations

Standards/regulations	IEC 60255/DIN VDE 0435 (in relevant parts)
	DIN EN 50178/VDE 0160 (in relevant parts)
	EN 60730/DIN VDE 0631

Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

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PLC-BSC-120UC/21 - Relay base

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2966032

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

cULus Recognized

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PLC-BSC-120UC/21 - Relay base

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Classifications

ECLASS

ECLASS-11.0	27371603
ECLASS-12.0	27371603
ECLASS-13.0	27371603

ETIM

ETIM 9.0	EC001456

UNSPSC

UNSPSC 21.0	39122300

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PLC-BSC-120UC/21 - Relay base

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	513b08d4-6e20-4db9-8d69-e76aa5dd5387

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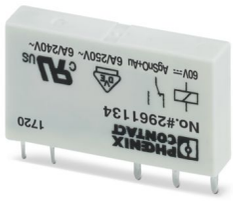
https://www.phoenixcontact.com/gb/products/2966032

Mandatory accessories

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

2961134

https://www.phoenixcontact.com/gb/products/2961134

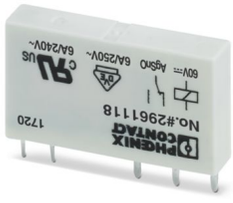


Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 60 V DC

REL-MR- 60DC/21 - Single relay

2961118

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



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

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PLC-BSC-120UC/21 - Relay base

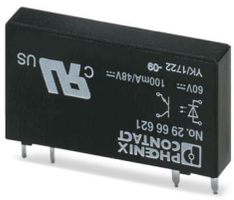
2966032

https://www.phoenixcontact.com/gb/products/2966032

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

2966621

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

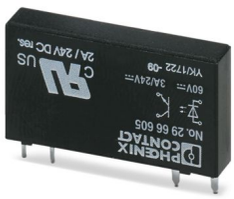


Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input: 60 V DC, output: 3 - 48 V DC/100 mA

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

2966605

https://www.phoenixcontact.com/gb/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

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PLC-BSC-120UC/21 - Relay base

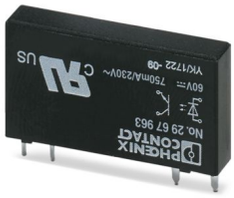
2966032

https://www.phoenixcontact.com/gb/products/2966032

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

2967963

https://www.phoenixcontact.com/gb/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

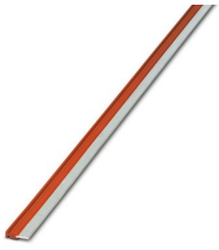
Accessories

Note: Applying some accessories below might limit this product.

FBST 500-PLC RD - Continuous plug-in bridge

2966786

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



Continuous plug-in bridge, length: 500 mm, color: red

Max. current carrying capacity: 32 A

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PLC-BSC-120UC/21 - Relay base

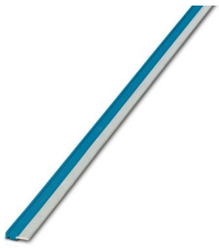
2966032

https://www.phoenixcontact.com/gb/products/2966032

FBST 500-PLC BU - Continuous plug-in bridge

2966692

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



Continuous plug-in bridge, length: 500 mm, color: blue

Max. current carrying capacity: 32 A

FBST 500-PLC GY - Continuous plug-in bridge

2966838

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



Continuous plug-in bridge, length: 500 mm, color: gray

Max. current carrying capacity: 32 A

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PLC-BSC-120UC/21 - Relay base

2966032

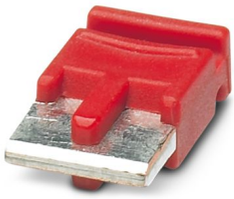
https://www.phoenixcontact.com/gb/products/2966032

FBST 6-PLC RD - Single plug-in bridge

2966236

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

Single plug-in bridge, number of positions: 2, length: 6 mm, color: red



Max. current carrying capacity: 6 A

FBST 6-PLC BU - Single plug-in bridge

2966812

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

Single plug-in bridge, number of positions: 2, length: 6 mm, color: blue



Max. current carrying capacity: 6 A

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PLC-BSC-120UC/21 - Relay base

2966032

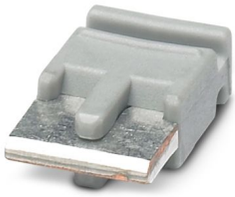
https://www.phoenixcontact.com/gb/products/2966032

FBST 6-PLC GY - Single plug-in bridge

2966825

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

Single plug-in bridge, number of positions: 2, length: 6 mm, color: gray



Max. current carrying capacity: 6 A

FBST 8-PLC GY - Single plug-in bridge

2967688

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

Single plug-in bridge, number of positions: 2, length: 8 mm, color: gray



Max. current carrying capacity: 6 A

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

PLC-ESK GY - Power terminal block

2966508

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



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

PLC-ATP BK - Separating plate

2966841

https://www.phoenixcontact.com/gb/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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

PLC-FA-5X20 - Fuse adapter

1186510

https://www.phoenixcontact.com/gb/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.

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

1186499

https://www.phoenixcontact.com/gb/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.

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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

1186508

https://www.phoenixcontact.com/gb/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.

ZB 6:UNBEDRUCKT - Zack marker strip

1051003

https://www.phoenixcontact.com/gb/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

PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

ZB 6 CUS - Zack marker strip

0824992

https://www.phoenixcontact.com/gb/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

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

1051414

https://www.phoenixcontact.com/gb/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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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

1051430

https://www.phoenixcontact.com/gb/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

UC-TM 6 - Marker for terminal blocks

0818085

https://www.phoenixcontact.com/gb/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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

UC-TM 6 CUS - Marker for terminal blocks

0824589

https://www.phoenixcontact.com/gb/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

UCT-TM 6 - Marker for terminal blocks

0828736

https://www.phoenixcontact.com/gb/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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

UCT-TM 6 CUS - Marker for terminal blocks

0829602

https://www.phoenixcontact.com/gb/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

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

0801733

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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

0801681

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



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

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

1204119

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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

1204122

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



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

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

0801704

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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

1206421

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



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

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

1206434

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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

0801762

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



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

NS 35/ 7,5 CAP - End cap

1206560

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

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



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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

NS 35/15 PERF 2000MM - DIN rail perforated

1201730

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



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

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

1201714

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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

0806602

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



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

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

1204135

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

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

1201756

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



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

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

1206599

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

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

1206586

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



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

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

1201895

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

NS 35/15 CAP - End cap

1206573

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

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



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

1201798

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



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

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PLC-BSC-120UC/21 - Relay base

2966032

https://www.phoenixcontact.com/gb/products/2966032

SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/gb/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

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