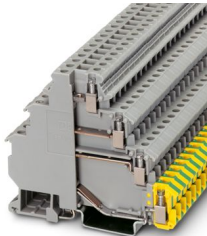


3024465
<https://www.phoenixcontact.com/us/products/3024465>

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Initiator/actuator terminal block, nom. voltage: 400 V, nominal current: 24 A, connection method: Screw connection, 2nd, 3rd and 4th level, Rated cross section: 2.5 mm², cross section: 0.2 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Commercial data

Item number	3024465
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1218
GTIN	4017918282790
Weight per piece (including packing)	27.53 g
Weight per piece (excluding packing)	27.53 g
Customs tariff number	85369010
Country of origin	PL

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

Technical data

Product properties

Product type	Sensor/actuator terminal block
Number of connections	7
Number of rows	4

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	2.5 mm ²

2nd, 3rd and 4th level

Screw thread	M3
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	0.5 ... 0.6 Nm
Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²
Cross-section with insertion bridge, rigid	4 mm ²
Cross-section with insertion bridge, flexible	2.5 mm ²
Nominal current	24 A
Maximum load current	26 A (with a 2.5 mm ² conductor cross section)
Nominal voltage	400 V (when using EB insertion bridges, the nominal voltage is reduced to 250 V.)
Nominal cross section	2.5 mm ²

Ex data

Rated data (ATEX/IECEx)

Identification	Ex II 2 G Ex e IIC Gb
----------------	-----------------------

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

Operating temperature range	-50 °C ... 110 °C
Ex-certified accessories	1205053 SZS 0,6X3,5 1201442 E/UK
List of bridges	Insertion bridge / EB 2- DIK GY / 2715898 Insertion bridge / EB 2- DIK RD / 2716693 Insertion bridge / EB 2- DIK BU / 2716648 Insertion bridge / EB 3- DIK GY / 2715908 Insertion bridge / EB 3- DIK RD / 2716745 Insertion bridge / EB 3- DIK BU / 2716651 Insertion bridge / EB 10- DIK GY / 2715937 Insertion bridge / EB 10- DIK RD / 2716774 Insertion bridge / EB 10- DIK BU / 2716680
Bridge data	16 A / 2.5 mm² ΔT 45 K
Ex temperature increase	37 K (20 A / 2.5 mm²)
Rated voltage	176 V
at bridging with insertion bridge	176 V
Rated insulation voltage	160 V
output	(Permanent)

Ex level General

Rated current	20 A (ΔT 45 K)
Maximum load current	25 A (ΔT 45 K)

Ex connection data General

Torque range	0.5 Nm ... 0.6 Nm
Nominal cross section	2.5 mm²
Rated cross section AWG	14
Connection capacity rigid	0.2 mm² ... 4 mm²
Connection capacity AWG	24 ... 12
Connection capacity flexible	0.2 mm² ... 2.5 mm²
Connection capacity AWG	24 ... 14
2 conductors with same cross section, solid	0.2 mm² ... 1 mm²
2 conductors with the same cross-section AWG rigid	24 ... 17
2 conductors with same cross section, stranded	0.2 mm² ... 1 mm²
2 conductors with the same cross-section AWG flexible	24 ... 17
output	(Permanent)

Ex level Level 1

Contact resistance	0.8 mΩ
output	(Permanent)

Ex level Level 2

Contact resistance	0.6 mΩ
output	(Permanent)

Ex level Level 3

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



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Contact resistance	0.5 mΩ
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Dimensions

Width	6.2 mm
Height	82.5 mm
Depth on NS 35/7,5	70 mm
Depth on NS 35/15	77.5 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA

Mechanical properties

Mechanical data

Open side panel	No
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Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

Standards and regulations

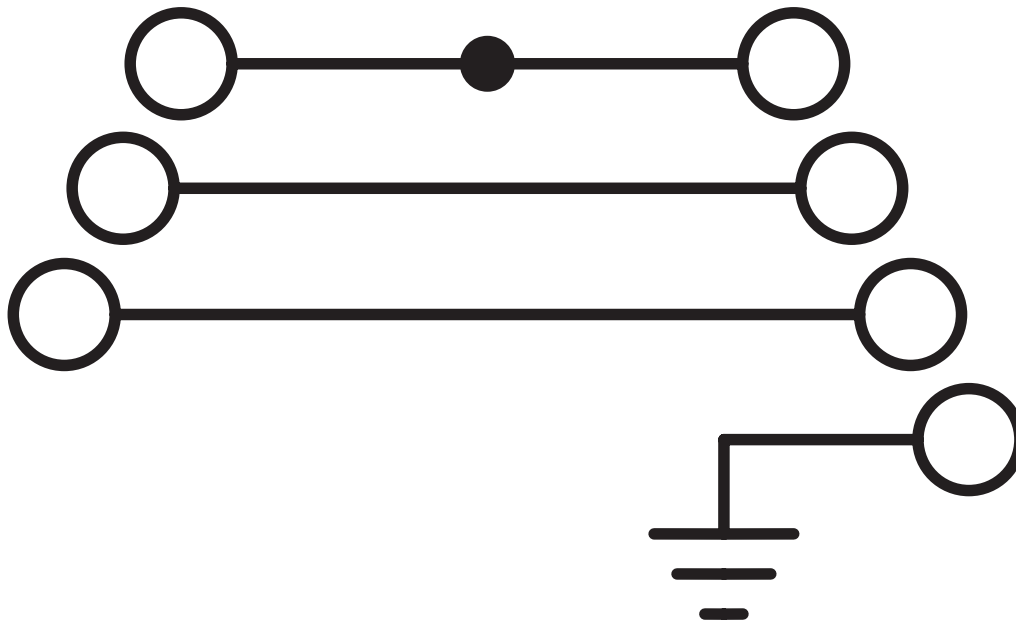
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
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Mounting

Mounting type	NS 35/7,5
	NS 35/15

Drawings

Circuit diagram



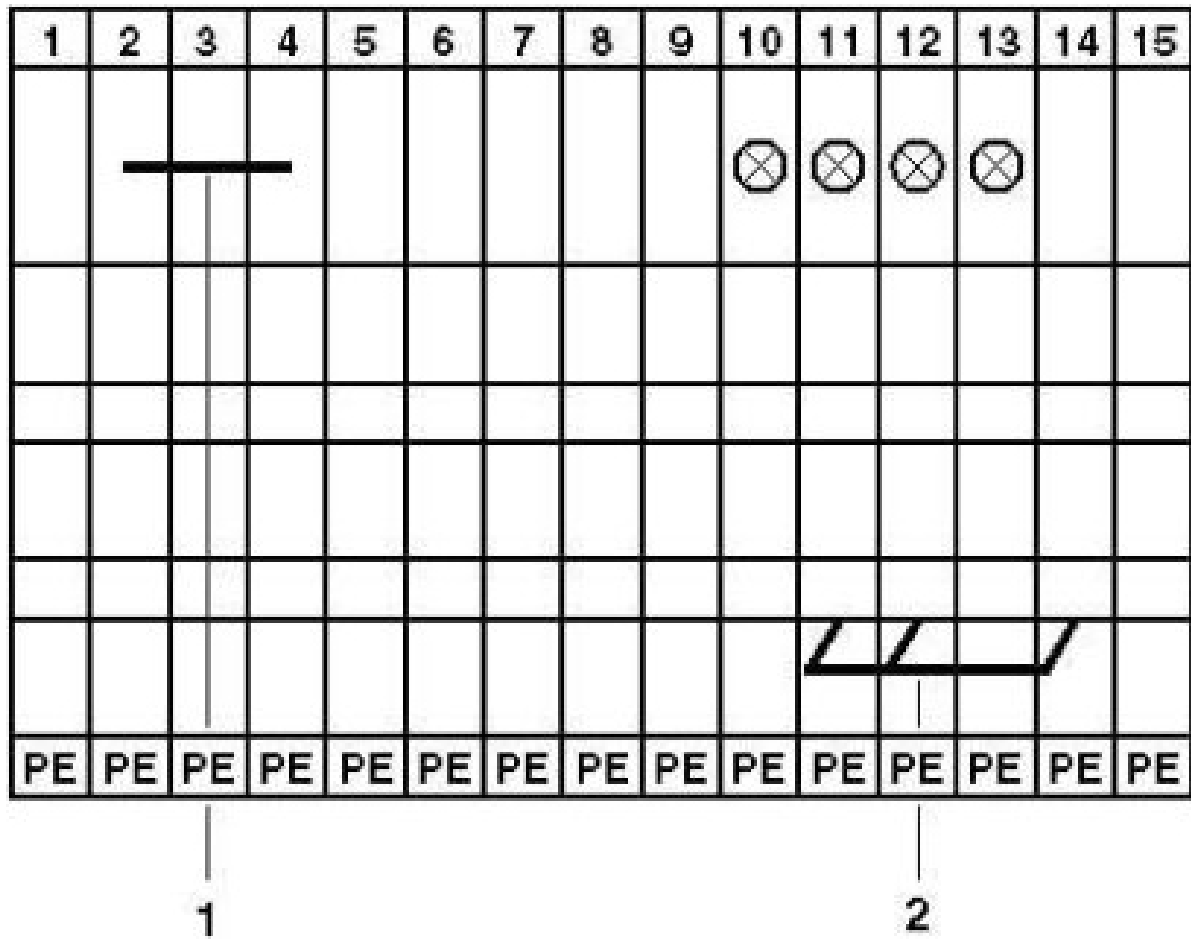
VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



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Circuit diagram



VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



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Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3024465>



EAC

Approval ID: RU C-DE.BL08.B.00534



EAC Ex

Approval ID: RU C-DE.Ax07.B.03227



ATEX

Approval ID: VTT 09 ATEX 057U

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



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Classifications

ECLASS

ECLASS-11.0	27141128
ECLASS-12.0	27141128
ECLASS-13.0	27250112

ETIM

ETIM 9.0	EC000900
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



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Accessories

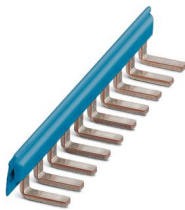


Note: Applying some accessories below might limit this product.

EB 80- DIK BU - Insertion bridge

2715940

<https://www.phoenixcontact.com/us/products/2715940>



Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: blue



Max. current carrying capacity: 26 A

EB 10- DIK RD - Insertion bridge

2716774

<https://www.phoenixcontact.com/us/products/2716774>



Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: red



Max. current carrying capacity: 26 A

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

EB 10- DIK BU - Insertion bridge

2716680

<https://www.phoenixcontact.com/us/products/2716680>

Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: blue



 Max. current carrying capacity: 26 A

EB 80- DIK RD - Insertion bridge

2715953

<https://www.phoenixcontact.com/us/products/2715953>

Insertion bridge, pitch: 6.2 mm, number of positions: 80, color: red



 Max. current carrying capacity: 26 A

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

EB 10- DIK GY - Insertion bridge

2715937

<https://www.phoenixcontact.com/us/products/2715937>

Insertion bridge, pitch: 6.15 mm, number of positions: 10, color: gray



 Max. current carrying capacity: 26 A

SBS 6:UNBEDRUCKT - Marker card

1007222

<https://www.phoenixcontact.com/us/products/1007222>

Marker card, Card, white, unlabeled, can be labeled with: Marker pen, mounting type: snapped, snap into flat marker groove, for terminal block width: 6 mm, lettering field size: 6 x 6.1 mm, Number of individual labels: 250



VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

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

0801733

<https://www.phoenixcontact.com/us/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

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

0801681

<https://www.phoenixcontact.com/us/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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block

3024465

<https://www.phoenixcontact.com/us/products/3024465>



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

1204119

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



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

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

1204122

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



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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block

3024465

<https://www.phoenixcontact.com/us/products/3024465>



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

0801704

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



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

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

1206421

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



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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block

3024465

<https://www.phoenixcontact.com/us/products/3024465>



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

1206434

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



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

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

0801762

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



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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block

3024465

<https://www.phoenixcontact.com/us/products/3024465>



NS 35/ 7,5 CAP - End cap

1206560

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

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



NS 35/15 PERF 2000MM - DIN rail perforated

1201730

<https://www.phoenixcontact.com/us/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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

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

1201714

<https://www.phoenixcontact.com/us/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

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

0806602

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



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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block

3024465

<https://www.phoenixcontact.com/us/products/3024465>



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

1204135

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



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

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

1201756

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



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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

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

1206599

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



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

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

1206586

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



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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block

3024465

<https://www.phoenixcontact.com/us/products/3024465>



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

1201895

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



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

NS 35/15 CAP - End cap

1206573

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

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



VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block

3024465

<https://www.phoenixcontact.com/us/products/3024465>



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

1201798

<https://www.phoenixcontact.com/us/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

ZB 6:UNBEDRUCKT - Zack marker strip

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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

ZB 6 CUS - Zack marker strip

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

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

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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

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

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

ZB 6,LGS:GLEICHE ZAHLEN - Zack marker strip

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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

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

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

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

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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

UC-TM 6 - Marker for terminal blocks

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

UC-TM 6 CUS - Marker for terminal blocks

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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

UCT-TM 6 - Marker for terminal blocks

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

UCT-TM 6 CUS - Marker for terminal blocks

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

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

CLIPFIX 35 - End bracket

3022218

<https://www.phoenixcontact.com/us/products/3022218>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

CLIPFIX 35-5 - End bracket

3022276

<https://www.phoenixcontact.com/us/products/3022276>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

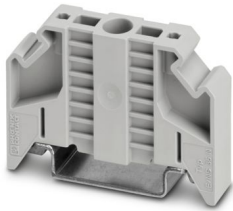
<https://www.phoenixcontact.com/us/products/3024465>

E/NS 35 N - End bracket

0800886

<https://www.phoenixcontact.com/us/products/0800886>

End clamp, width: 9.5 mm, color: gray



E/UK - End bracket

1201442

<https://www.phoenixcontact.com/us/products/1201442>

End bracket, Mounting on a DIN rail NS 32 or NS 35, material: PA, color: gray



VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

E/UK 1 - End bracket

1201413

<https://www.phoenixcontact.com/us/products/1201413>

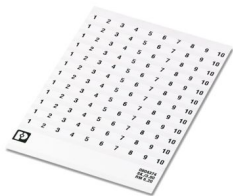


End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

SK 6,2/3,8:FORTL.ZAHLEN - Marker card

0804374

<https://www.phoenixcontact.com/us/products/0804374>



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 6.2 mm, lettering field size: 6.2 x 3.8 mm

VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

SF-SL 0,6X3,5-100 S-VDE - Screwdriver

1212587

<https://www.phoenixcontact.com/us/products/1212587>



Actuation tool, for ST terminal blocks, VDE insulated, with slimmer insulation integrated in the blade, 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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