

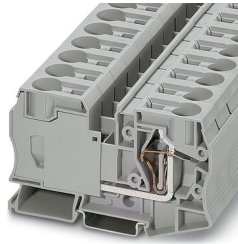
ST 35 - Feed-through terminal block



3036178

<https://www.phoenixcontact.com/in/products/3036178>

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 125 A, number of connections: 2, connection method: Spring-cage connection, 1 level, Rated cross section: 35 mm², cross section: 2.5 mm² - 35 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- The flexible options for reducing bridging in the CLIPLINE complete system can be found in "Accessories for the CLIPLINE complete modular terminal block system"
- The double bridge shaft not only enables individual chain bridging, but also reducing bridging to spring-cage terminal blocks with smaller cross sections

Commercial Data

Item number	3036178
Packing unit	10 pc
Minimum order quantity	10 pc
Sales Key	BE2
Product Key	BE2111
Catalog Page	Page 249 (C-1-2019)
GTIN	4017918821043
Weight per Piece (including packing)	84.15 g
Weight per Piece (excluding packing)	84.15 g
Customs tariff number	85369010
Country of origin	PL

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Technical Data

Product properties

Product type	Feed-through terminal block
Product family	ST
Number of connections	2
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	4.06 W

Connection data

Number of connections per level	2
Nominal cross section	35 mm ²

1 level

Stripping length	25 mm
Internal cylindrical gage	A8
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	2.5 mm ² ... 35 mm ²
Cross section AWG	14 ... 2 (converted acc. to IEC)
Conductor cross section flexible	2.5 mm ² ... 35 mm ²
Conductor cross section, flexible [AWG]	14 ... 2 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	2.5 mm ² ... 35 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	2.5 mm ² ... 35 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	2.5 mm ² ... 10 mm ²
Nominal current	125 A
Maximum load current	125 A (with 35 mm ² conductor cross section)
Nominal voltage	1000 V
Note	The supply from the ST 35 terminal block to the ST 16 TWIN terminal block with the RB-ST 35 reducing bridge is single-sided only. In the case of a central supply, the D-ST 16-TWIN cover cannot be bridged via the reducing bridge.
Nominal cross section	35 mm ²

Ex data

Rated data (ATEX/IECEx)

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Identification	□ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	1206612 SZF 3-1,0X5,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-16 / 3005963
Bridge data	85.5 A / 35 mm ²
Ex temperature increase	40 K (118.6 A / 35 mm ²)
Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

Ex level General

Rated current	107.5 A
Maximum load current	107.5 A
Contact resistance	0.21 mΩ

Ex connection data General

Nominal cross section	35 mm ²
Rated cross section AWG	2
Connection capacity rigid	2.5 mm ² ... 35 mm ²
Connection capacity AWG	14 ... 2
Connection capacity flexible	2.5 mm ² ... 35 mm ²
Connection capacity AWG	14 ... 2

Dimensions

Width	16 mm
Height NS 35/15	66.5 mm
Height NS 35/7,5	59 mm
Length	100 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

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Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

Electrical tests

Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature \leq 45 K
Result	Test passed
Short-time withstand current 35 mm ²	4.2 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Mechanical strength

Result	Test passed
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Attachment on the carrier

DIN rail/fixing support	NS 35
Test force setpoint	10 N
Result	Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	2.5 mm ² / 0.7 kg
	35 mm ² / 6.8 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

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Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	$6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature 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 (storage/transport)	30 % ... 70 %

Standards and regulations

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

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

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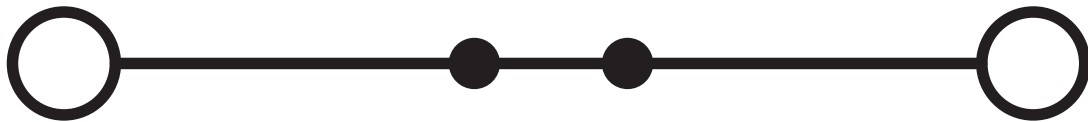
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Drawings

Circuit diagram




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Approvals


 CSA Approval ID: 13631				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	600 V	115 A	14 - 2	-
Use group C	600 V	115 A	14 - 2	-


 IECEE CB Scheme Approval ID: DE1-62909				
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 LR Approval ID: LR2014888TA				
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 KR Approval ID: HMB17372-EL002				
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 ClassNK				
NK Approval ID: 09 ME 140				

 RS Approval ID: 22.44.01.00083.250				
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 BV Approval ID: 13403/D0 BV				
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 cULus Recognized Approval ID: E60425				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
Use group B	600 V	115 A	14 - 2	-
Use group C	600 V	115 A	14 - 2	-

 ATEX Approval ID: KEMA01ATEX2260U				
	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2

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Type examination certificate	690 V	107.5 A	-	2.5 - 35
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EAC Ex

Approval ID: RU C-DE.HA91.B.00066



IECEX

Approval ID: IECEX KEM 06.0033U

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	690 V	107.5 A	-	2.5 - 35



CCC

Approval ID: 2020322313000621



NEPSI

Approval ID: GYJ20.1193U



UKCA-EX

Approval ID: DEKRA 21 UKEX0303U

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Classifications

ECLASS

ECLASS-11.0

27141120

ETIM

ETIM 8.0

EC000897

UNSPSC

UNSPSC 21.0

39121400

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Environmental Product Compliance


China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

 Note: Applying some accessories below might limit this product.

FBS 2-16 - Plug-in bridge

3005963

<https://www.phoenixcontact.com/in/products/3005963>



Plug-in bridge, pitch: 16 mm, number of positions: 2, length: 44 mm, color: red

 Max. current carrying capacity: 101 A


RB ST 35-(2,5/4) - Reducing bridge

3030899

<https://www.phoenixcontact.com/in/products/3030899>



Reducing bridge, pitch: 11 mm, number of positions: 2, color: red

 Max. current carrying capacity: 35 A

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RB 35-16 - Reducing bridge

3032169

<https://www.phoenixcontact.com/in/products/3032169>



Reducing bridge, pitch: 14 mm, number of positions: 2, color: red

 Max. current carrying capacity: 90 A

SZF 3-1,0X5,5 - Screwdriver

1206612

<https://www.phoenixcontact.com/in/products/1206612>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 1.0 x 5.5 x 150 mm, 2-component grip, with non-slip grip

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PAI-ST 35/1000MM - Test adapter

3029994

<https://www.phoenixcontact.com/in/products/3029994>



Test adapter, number of positions: 1, color: red

ST-IL - Mounting material

3039900

<https://www.phoenixcontact.com/in/products/3039900>

Operating decal for the ST terminal block



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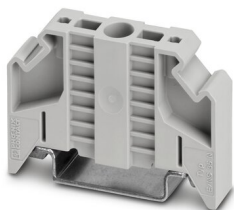


E/NS 35 N - End clamp

0800886

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

End clamp, width: 9.5 mm, color: gray



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

0801733

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



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

0801681

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

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

1204119

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



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

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

1204122

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



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

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

0801704

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



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

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

1206421

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



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

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

1206434

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



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

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

0801762

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



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

NS 35/ 7,5 CAP - End cap

1206560

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

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



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ZB 16:UNPRINTED - Zack marker strip

0827461

<https://www.phoenixcontact.com/in/products/0827461>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 16 x 10.5 mm, Number of individual labels: 50

ZB 16 CUS - Zack marker strip

0827463

<https://www.phoenixcontact.com/in/products/0827463>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 16 mm, lettering field size: 10.5 x 16 mm, Number of individual labels: 5

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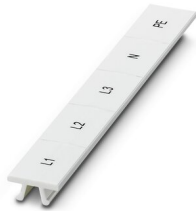
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ZB 16,LGS:L1-N,PE - Zack marker strip

0827462

<https://www.phoenixcontact.com/in/products/0827462>



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 16.3 mm, lettering field size: 10.5 x 16.25 mm, Number of individual labels: 5

UC-TM 16 - Marker for terminal blocks

0819217

<https://www.phoenixcontact.com/in/products/0819217>



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: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

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UC-TM 16 CUS - Marker for terminal blocks

0824621

<https://www.phoenixcontact.com/in/products/0824621>



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: 16 mm, lettering field size: 15.45 x 10.5 mm, Number of individual labels: 32

UCT-TM 16 - Marker for terminal blocks

0829146

<https://www.phoenixcontact.com/in/products/0829146>



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: 16 mm, lettering field size: 14.8 x 9.6 mm, Number of individual labels: 18

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UCT-TM 16 CUS - Marker for terminal blocks

0829637

<https://www.phoenixcontact.com/in/products/0829637>



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: 16 mm, lettering field size: 14.8 x 9.6 mm, Number of individual labels: 18

ZBF 16:UNPRINTED - Zack Marker strip, flat

0827464

<https://www.phoenixcontact.com/in/products/0827464>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 16 mm, lettering field size: 16.25 x 10.5 mm, Number of individual labels: 50

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ZBF 16 CUS - Zack Marker strip, flat

0827465

<https://www.phoenixcontact.com/in/products/0827465>



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: 16 mm, lettering field size: 5.15 x 16 mm, Number of individual labels: 5

UC-TMF 16 - Marker for terminal blocks

0819262

<https://www.phoenixcontact.com/in/products/0819262>



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: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

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UC-TMF 16 CUS - Marker for terminal blocks

0824678

<https://www.phoenixcontact.com/in/products/0824678>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.45 x 5.1 mm, Number of individual labels: 32

UCT-TMF 16 - Marker for terminal blocks

0829218

<https://www.phoenixcontact.com/in/products/0829218>



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: 16 mm, lettering field size: 15.2 x 4.7 mm, Number of individual labels: 24

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UCT-TMF 16 CUS - Marker for terminal blocks

0829693

<https://www.phoenixcontact.com/in/products/0829693>



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 16 mm, lettering field size: 15.2 x 4.7 mm, Number of individual labels: 24

MPS-MT - Test plugs

0201744

<https://www.phoenixcontact.com/in/products/0201744>



Test plugs, with solder connection up to 1 mm² conductor cross section, number of positions: 1, color: gray

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MPS-IH WH - Insulating sleeve

0201663

<https://www.phoenixcontact.com/in/products/0201663>

Insulating sleeve, color: white



MPS-IH RD - Insulating sleeve

0201676

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Insulating sleeve, color: red



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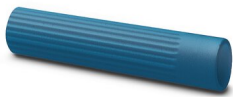


MPS-IH BU - Insulating sleeve

0201689

<https://www.phoenixcontact.com/in/products/0201689>

Insulating sleeve, color: blue



MPS-IH YE - Insulating sleeve

0201692

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Insulating sleeve, color: yellow



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MPS-IH GN - Insulating sleeve

0201702

<https://www.phoenixcontact.com/in/products/0201702>

Insulating sleeve, color: green



MPS-IH GY - Insulating sleeve

0201728

<https://www.phoenixcontact.com/in/products/0201728>

Insulating sleeve, color: gray



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MPS-IH BK - Insulating sleeve

0201731

<https://www.phoenixcontact.com/in/products/0201731>

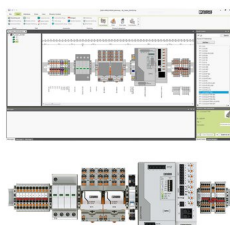
Insulating sleeve, color: black



PROJECT COMPLETE - Software

1050453

<https://www.phoenixcontact.com/in/products/1050453>



Intuitive planning and marking software for configuring terminal strips and for professional marking of marking materials for terminal blocks, conductors, cables, devices, and systems. The software is available for download

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E/AL-NS 35 - End clamp

1201662

<https://www.phoenixcontact.com/in/products/1201662>



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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