

https://www.phoenixcontact.com/us/products/3036149



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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 76 A, number of connections: 2, connection method: Spring-cage connection, Rated cross section: 16 mm², cross section: 0.2 mm² - 25 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

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

Commercial data

Item number	3036149
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2111
Catalog page	Page 247 (C-1-2019)
GTIN	4017918819309
Weight per piece (including packing)	36.9 g
Weight per piece (excluding packing)	36.86 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	2.43 W

Connection data

Number of connections per level	2
Nominal cross section	16 mm²
Stripping length	18 mm
Internal cylindrical gage	A7
	B6
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 25 mm²
Cross section AWG	24 4 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² 16 mm²
Conductor cross section, flexible [AWG]	24 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 16 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 16 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm² 4 mm²
Nominal current	76 A
Maximum load current	90 A (with 25 mm² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	16 mm²

Ex data

Rated data (ATEX/IECEx)

,	
Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	3036657 D-ST 16
	1206612 SZF 3-1,0X5,5
	3022276 CLIPFIX 35-5



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	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-12 / 3005950
Bridge data	60 A / 16 mm²
Ex temperature increase	40 K (71.3 A / 16 mm²)
Rated voltage	550 V
for bridging with bridge	550 V
Rated insulation voltage	500 V
output	(Permanent)
Ex level General	
Rated current	64.5 A
Maximum load current	81.5 A
Contact resistance	0.34 mΩ
Ex connection data General	
Nominal cross section	16 mm²
Rated cross section AWG	6
Connection capacity rigid	1.5 mm² 25 mm²
Connection capacity AWG	16 4
Connection capacity flexible	1.5 mm² 16 mm²
Connection capacity AWG	16 6
Dimensions	
Width	12.2 mm

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Width	12.2 mm
End cover width	2.2 mm
Height	80 mm
Depth on NS 35/7,5	51.5 mm
Depth on NS 35/15	59 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	1
Insulating material	PA
Static insulating material application in cold	-60 °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
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



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Surge voltage test

Test voltage setpoint	9.8 kV
Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 16 mm²	1.92 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes
Open side parier	103

Mechanical tests

Result

Mechanical strength

Attachment on the carrier		
DIN rail/fixing support	NS 32/NS 35	
Test force setpoint	5 N	
Result	Test passed	

Test passed

Test for conductor damage and slackening

Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.2 mm² / 0.2 kg
	16 mm² / 2.9 kg
	25 mm² / 4.5 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192	
Result	Test passed	
Needle-flame test		
Time of exposure	30 s	
Result	Test passed	

Oscillation/broadband noise



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Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
ocks	
Specification	DIN EN 50155 (VDE 0115-200):2022-06
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
nbient conditions	
Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heatin for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, no longer than 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 %
ndards and regulations	
Connection in acc. with standard	IEC 60947-7-1
nting	
Mounting type	NS 35/7,5
	NS 35/15

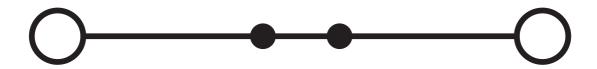


3036149

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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3036149

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	85 A	16 - 4	-
Use group C				
	600 V	85 A	16 - 4	-

	IECEE CB Scheme
	Approval ID: DE1-62791



LR

Approval ID: LR2014888TA



KR

Approval ID: HMB17372-EL002



NK

Approval ID: 09 ME 140



ΒV

Approval ID: 13403/D0 BV

VDE Zeichengenehmigung Approval ID: 40009030					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		1000 V	76 A	-	1.5 - 16

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	85 A	16 - 4	-
Use group C				
	600 V	85 A	16 - 4	-



3036149

https://www.phoenixcontact.com/us/products/3036149



Approval ID: TAE00001CS



ATEX

Approval ID: KEMA01ATEX2260U



EAC Ex

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



FCFx

Approval ID: IECEx KEM 06.0033U



CCC

Approval ID: 2020322313000621



UKCA-EX

Approval ID: DEKRA 21UKEX0303U



3036149

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Classifications

ECLASS

	ECLASS-11.0	27141120	
	ECLASS-13.0	27250101	
ETIM			
	ETIM 9.0	EC000897	
UNSPSC			
	UNSPSC 21.0	39121400	

May 17, 2024, 6:57 AM Page 9 (32)



https://www.phoenixcontact.com/us/products/3036149



Environmental product compliance

EU R	oHS
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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%	



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Accessories



Note: Applying some accessories below might limit this product.

FBS 2-12 - Plug-in bridge

3005950

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Plug-in bridge, pitch: 12 mm, number of positions: 2, color: red

1 Max. current carrying capacity: 76 A

RB PTPOWER 35-ST 16 - Reducing bridge

3032170

https://www.phoenixcontact.com/us/products/3032170



Reducing bridge, For bridging PTPOWER 35 to ST 16... or PT 16 N terminal blocks, pitch: 14.5 mm, number of positions: 2, length: 5 mm, color: red

1 Max. current carrying capacity: 90 A



3036149

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RB ST 16-1,5/S - Reducing bridge

3213254

https://www.phoenixcontact.com/us/products/3213254



Reducing bridge, pitch: 10 mm, number of positions: 2, length: 37 mm, color: red

1 Max. current carrying capacity: 24 A

RB ST 16-(2,5/4) - Reducing bridge

3030886

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Reducing bridge, pitch: 11 mm, number of positions: 2, length: 37 mm, color: red

1 Max. current carrying capacity: 35



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RB 35-16 - Reducing bridge

3032169

https://www.phoenixcontact.com/us/products/3032169



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

1 Max. current carrying capacity: 90 A

RB 16-6 - Reducing bridge

3047072

https://www.phoenixcontact.com/us/products/3047072



Reducing bridge, pitch: 12.2 mm, number of positions: 2, color: red

Max. current carrying capacity: 37 A



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LPS-12/E - Service connector

3270600

https://www.phoenixcontact.com/us/products/3270600



Service connector, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: $2.5 \, \text{mm}^2$, cross section: $0.14 \, \text{mm}^2$ - $4 \, \text{mm}^2$, color: red

LPS-12 - Service connector

3270601

https://www.phoenixcontact.com/us/products/3270601



Service connector, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm²- 4 mm², color: red



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LPO 16/E - Pick-off plug

3270531

https://www.phoenixcontact.com/us/products/3270531



Pick-off plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm²- 4 mm², color: gray

LPO 16 - Pick-off plug

3270532

https://www.phoenixcontact.com/us/products/3270532



Pick-off plug, nom. voltage: 800 V, nominal current: 24 A, number of positions: 1, connection method: Push-in connection, Rated cross section: $2.5~\text{mm}^2$, cross section: $0.14~\text{mm}^2$ - $4~\text{mm}^2$, color: gray



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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



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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



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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



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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



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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



ZB 12:UNPRINTED - Zack marker strip

0812120

https://www.phoenixcontact.com/us/products/0812120



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5



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ZB 12 CUS - Zack marker strip

0824942

https://www.phoenixcontact.com/us/products/0824942



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5

ZB 12,LGS:L1-N,PE - Zack marker strip

0812146

https://www.phoenixcontact.com/us/products/0812146



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 10.5 x 12.15 mm, Number of individual labels: 5



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UC-TM 12 - Marker for terminal blocks

0819194

https://www.phoenixcontact.com/us/products/0819194



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: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

UC-TM 12 CUS - Marker for terminal blocks

0824613

https://www.phoenixcontact.com/us/products/0824613



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: 12 mm, lettering field size: 11.45×10.5 mm, Number of individual labels: 40



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UCT-TM 12 - Marker for terminal blocks

0829144

https://www.phoenixcontact.com/us/products/0829144



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30

UCT-TM 12 CUS - Marker for terminal blocks

0829630

https://www.phoenixcontact.com/us/products/0829630



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: 12 mm, lettering field size: 10.8 x 9.6 mm, Number of individual labels: 30



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ZBF 12:UNBEDRUCKT - Zack Marker strip, flat

0809735

https://www.phoenixcontact.com/us/products/0809735



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

ZBF 12 CUS - Zack Marker strip, flat

0825018

https://www.phoenixcontact.com/us/products/0825018



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: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5



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UC-TMF 12 - Marker for terminal blocks

0819233

https://www.phoenixcontact.com/us/products/0819233



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: 12 mm, lettering field size: 11.45 x 5.1 mm, Number of individual labels: 40

UC-TMF 12 CUS - Marker for terminal blocks

0824670

https://www.phoenixcontact.com/us/products/0824670



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: 12 mm, lettering field size: 11.45×5.1 mm, Number of individual labels: 40



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UCT-TMF 12 - Marker for terminal blocks

0829214

https://www.phoenixcontact.com/us/products/0829214



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: 12 mm, lettering field size: 11.2 x 4.7 mm, Number of individual labels: 30

UCT-TMF 12 CUS - Marker for terminal blocks

0829686

https://www.phoenixcontact.com/us/products/0829686



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: 12 mm, lettering field size: 11.2 x 4.7 mm, Number of individual labels: 30



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MPS-MT - Test plug

0201744

https://www.phoenixcontact.com/us/products/0201744



Test plug, with solder connection up to 1 \mbox{mm}^2 conductor cross section, number of positions: 1, color: gray

MPS-IH WH - Insulating sleeve

0201663

https://www.phoenixcontact.com/us/products/0201663

Insulating sleeve, color: white





3036149

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MPS-IH RD - Insulating sleeve

0201676

https://www.phoenixcontact.com/us/products/0201676

Insulating sleeve, color: red



MPS-IH BU - Insulating sleeve

0201689

https://www.phoenixcontact.com/us/products/0201689

Insulating sleeve, color: blue





3036149

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MPS-IH YE - Insulating sleeve

0201692

https://www.phoenixcontact.com/us/products/0201692

Insulating sleeve, color: yellow



MPS-IH GN - Insulating sleeve

0201702

https://www.phoenixcontact.com/us/products/0201702

Insulating sleeve, color: green





3036149

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MPS-IH GY - Insulating sleeve

0201728

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Insulating sleeve, color: gray



MPS-IH BK - Insulating sleeve

0201731

https://www.phoenixcontact.com/us/products/0201731

Insulating sleeve, color: black





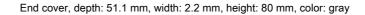
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D-ST 16 - End cover

3036657

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SZF 3-1,0X5,5 - Screwdriver

1206612

https://www.phoenixcontact.com/us/products/1206612



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



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WST 10/35 - Warning cover

3030006

https://www.phoenixcontact.com/us/products/3030006

Warning cover, 5-pos., for terminal widths of 10.2 mm, 12.2 mm, and 16 mm



PROJECT COMPLETE - Software

1050453

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