

1291482

https://www.phoenixcontact.com/us/products/1291482

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 2, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: black

Your advantages

- · Clear wiring, thanks to lateral conductor entry
- · The compact design enables wiring in a confined space
- · The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system
- · In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection

Commercial data

Item number	1291482
Packing unit	1 pc
Minimum order quantity	100 pc
Sales key	BE23
Product key	BE2311
GTIN	4063151524302
Weight per piece (including packing)	6.01 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Product type	Feed-through terminal block
Product family	PTV
Number of positions	1
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	2
Number of rows	1
Potentials	1
nsulation characteristics	
Overvoltage category	III
Degree of pollution	3

Electrical properties

Maximum power dissipation for nominal condition	0.77 W
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Connection data

Number of connections per level	2
Nominal cross section	2.5 mm²
Stripping length	8 mm 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 4 mm²
Conductor cross section, flexible [AWG]	26 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 2.5 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm ² 1 mm ²
Nominal current	24 A (at 2.5 mm²)
Maximum load current	28 A (with 4 mm² conductor cross section, rigid)
Nominal voltage	800 V
Nominal cross section	2.5 mm²

Connection cross sections directly pluggable

* * **	
Conductor cross section rigid	0.5 mm² 4 mm²
Conductor cross section, rigid [AWG]	20 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm² 2.5 mm²



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Ex data

D	/ATEV/1505	`
Rated data	(ATEX/IECEx	()

Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1088746 D-PTV 2,5/4
	3030721 ATP-ST 4
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
List of bridges	Plug-in bridge / FBS 2-5 / 3030161
	Plug-in bridge / FBS 3-5 / 3030174
	Plug-in bridge / FBS 4-5 / 3030187
	Plug-in bridge / FBS 5-5 / 3030190
	Plug-in bridge / FBS 10-5 / 3030213
	Plug-in bridge / FBS 20-5 / 3030226
	Plug-in bridge / FBS 50-5 / 3038930
Bridge data	20.5 A / 2.5 mm ²
Ex temperature increase	40 K (20.7 A / 2.5 mm²)
Rated voltage	550 V
for bridging with bridge	550 V
- At bridging between non-adjacent terminal blocks	352 V
- At cut-to-length bridging	275 V
- At cut-to-length bridging with cover	275 V
- At cut-to-length bridging with partition plate	550 V
Rated insulation voltage	500 V
output	(Permanent)

Ex level General

Rated current	20.5 A (2.5 mm²)
Maximum load current	24.5 A (4 mm²)
Contact resistance	0.8 mΩ

Ex connection data General

Nominal cross section	2.5 mm ²
Rated cross section AWG	14
Connection capacity rigid	0.14 mm² 4 mm²
Connection capacity AWG	26 12
Connection capacity flexible	0.14 mm² 4 mm²
Connection capacity AWG	26 12

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	50.8 mm
Depth	35.3 mm



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Depth on NS 35/7,5	36.8 mm
Depth on NS 35/15	44.3 mm
aterial specifications	
Color	black
Flammability rating according to UL 94	V0
Insulating material group	I
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
Surge voltage test Test voltage setpoint	9.8 kV
Test voltage setpoint Result	9.8 kV Test passed
Test voltage setpoint Result Temperature-rise test	Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test	Test passed Increase in temperature ≤ 45 K
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result	Test passed Increase in temperature ≤ 45 K Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm²	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result	Test passed Increase in temperature ≤ 45 K Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage	Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result echanical properties	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result echanical properties Mechanical data	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed 2 kV Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result echanical properties Mechanical data Open side panel	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result echanical properties Mechanical data Open side panel	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed 2 kV Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result echanical properties Mechanical data Open side panel echanical tests	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed 2 kV Test passed
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Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result Echanical properties Mechanical data Open side panel echanical strength Result	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed 2 kV Test passed
Test voltage setpoint Result Temperature-rise test Requirement temperature-rise test Result Short-time withstand current 2.5 mm² Result Power-frequency withstand voltage Test voltage setpoint Result echanical properties Mechanical data Open side panel echanical strength	Test passed Increase in temperature ≤ 45 K Test passed 0.3 kA Test passed 2 kV Test passed



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Connection in acc. with standard

Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.14 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed
ironmental and real-life conditions	
ging	
Temperature cycles	192
Result	Test passed
eedle-flame test	
Time of exposure	30 s
Result	Test passed
scillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 2, bogie-mounted
Frequency	f ₁ = 5 Hz to f ₂ = 250 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
nocks	
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 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 %

IEC 60947-7-1



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Mounting

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

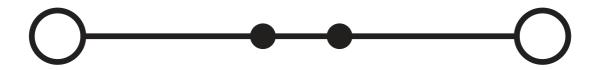


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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1291482

CSA Approval ID: 158887				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	20 A	26 - 12	-
Use group C				
	600 V	20 A	26 - 12	-

CB scheme	IECEE CB Scheme Approval ID: DE1-67139				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		800 V	24 A	-	0.2 - 4

EHC	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00644

81	cULus Recognized
e 911 us	Approval ID: E60425

e 712 us	cULus Recognized
C TALE US	Approval ID: E60425

VDE Zeichengene Approval ID: 40056318	hmigung			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	800 V	24 A	-	0.2 - 4

[(IEĈEx	IECEx
	Approval ID: IECExPTB20.0037U

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	Approval ID: IECExPTB20.0037U





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CCC

Approval ID: 2021122313114374



UKCA-EX

Approval ID: CSAE 22UKEX1099U



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Classifications

ECLASS

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
FI	TIM	
	IIVI	
	ETIM 8.0	EC000897
LIN	NSPSC	
UI	NOFOC	
	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 2-5 - Plug-in bridge

3030161

https://www.phoenixcontact.com/us/products/3030161



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, length: 23 mm, color: red

1 Max. current carrying capacity: 24 A

FBS 3-5 - Plug-in bridge

3030174

https://www.phoenixcontact.com/us/products/3030174



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, length: 23 mm, color: red

1 Max. current carrying capacity: 24 A



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FBS 4-5 - Plug-in bridge

3030187

https://www.phoenixcontact.com/us/products/3030187



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, length: 23 mm, color: red

1 Max. current carrying capacity: 24 A

FBS 5-5 - Plug-in bridge

3030190

https://www.phoenixcontact.com/us/products/3030190



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, length: 23 mm, color: red

1 Max. current carrying capacity: 24 A



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FBS 10-5 - Plug-in bridge

3030213

https://www.phoenixcontact.com/us/products/3030213



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, length: 23 mm, color: red

Max. current carrying capacity: 24 A

FBS 20-5 - Plug-in bridge

3030226

https://www.phoenixcontact.com/us/products/3030226



Plug-in bridge, pitch: 5.2 mm, number of positions: 20, color: red

Max. current carrying capacity: 24 A



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FBSR 2-5 - Plug-in bridge

3033702

https://www.phoenixcontact.com/us/products/3033702



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: red

10 Max. current carrying capacity: 17.5 A

FBSR 3-5 - Plug-in bridge

3001591

https://www.phoenixcontact.com/us/products/3001591



Plug-in bridge, pitch: 5.2 mm, number of positions: 3, color: red

17.5 A Max. current carrying capacity: 17.5 A



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FBSR 4-5 - Plug-in bridge

3001592

https://www.phoenixcontact.com/us/products/3001592



Plug-in bridge, pitch: 5.2 mm, number of positions: 4, color: red

10 Max. current carrying capacity: 17.5 A

FBSR 5-5 - Plug-in bridge

3001593

https://www.phoenixcontact.com/us/products/3001593



Plug-in bridge, pitch: 5.2 mm, number of positions: 5, color: red

17.5 A Max. current carrying capacity: 17.5 A



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FBSR 10-5 - Plug-in bridge

3033710

https://www.phoenixcontact.com/us/products/3033710



Plug-in bridge, pitch: 5.2 mm, number of positions: 10, color: red

17.5 A Max. current carrying capacity: 17.5 A

RB ST 6-(2,5/4) - Reducing bridge

3030860

https://www.phoenixcontact.com/us/products/3030860



Reducing bridge, pitch: 9 mm, number of positions: 2, length: 30 mm, color: red

1 Max. current carrying capacity: 35 A



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RB ST 10-(2,5/4) - Reducing bridge

3030873

https://www.phoenixcontact.com/us/products/3030873



Reducing bridge, pitch: 10 mm, number of positions: 2, length: 36 mm, color: red

1 Max. current carrying capacity: 35 A

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

3030886

https://www.phoenixcontact.com/us/products/3030886



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

Max. current carrying capacity: 35 A



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

3030899

https://www.phoenixcontact.com/us/products/3030899



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

1 Max. current carrying capacity: 35 A

RB UT 6-ST(2,5/4) - Reducing bridge

3047264

https://www.phoenixcontact.com/us/products/3047264



Reducing bridge, pitch: 9.5 mm, number of positions: 2, length: 33 mm, color: red

Max. current carrying capacity: 35 A



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

3047280

https://www.phoenixcontact.com/us/products/3047280



Reducing bridge, pitch: 10.8 mm, number of positions: 2, color: red

1 Max. current carrying capacity: 40 A

RB UT 10-ST(2,5/4) - Reducing bridge

3047086

https://www.phoenixcontact.com/us/products/3047086



Reducing bridge, pitch: 10.2 mm, number of positions: 2, length: 33 mm, color: red

Max. current carrying capacity: 40 A



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

3047099

https://www.phoenixcontact.com/us/products/3047099



Reducing bridge, pitch: 11 mm, number of positions: 2, length: 41 mm, color: red

Max. current carrying capacity: 40 A

ATP-ST 4 - Partition plate

3030721

https://www.phoenixcontact.com/us/products/3030721



Partition plate, length: 59.8 mm, width: 2 mm, height: 59.8 mm, color: gray



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PAI-4 - Test adapter

3030925

https://www.phoenixcontact.com/us/products/3030925



Test adapter, Touch proof against unintentional direct contact according to DIN EN 50274 when plugged in, for 4 mm test plug and terminal blocks with 4.2 mm pitch, number of positions: 1, color: gray

CLIPFIX 35-5 V0 - End clamp

3032350

https://www.phoenixcontact.com/us/products/3032350



Quick-fit end bracket, inflammability class V0 according to UL 94, for DIN rail NS 35/7.5 or NS 35/15, can be marked with UC-TM 5, UC-TMF 5, KLM 2, KLM3, and KML3L, parking for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray



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STP 5-2-ZB - Marker carriers

3037643

https://www.phoenixcontact.com/us/products/3037643



Marker carriers, snaps into ST 2,5 spring-cage terminal blocks, can be marked with UC-TM 5, UCT-TMF 5, UCT-TM 5, UCT-TMF 5, ZB 5, or ZBF 5, gray, unlabeled, mounting type: snapped

PAI-4-FIX-5/6 BU - Test adapter

3035975

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PAI-4-FIX-5/6 OG - Test adapter

3035974

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4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

PAI-4-FIX-5/6 YE - Test adapter

3035977

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PAI-4-FIX-5/6 RD - Test adapter

3035976

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4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

PAI-4-FIX-5/6 GN - Test adapter

3035978

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PAI-4-FIX-5/6 BK - Test adapter

3035980

https://www.phoenixcontact.com/us/products/3035980



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

PAI-4-FIX-5/6 GY - Test adapter

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PAI-4-FIX-5/6 VT - Test adapter

3035979

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4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

PAI-4-FIX-5/6 BN - Test adapter

3035981

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PAI-4-FIX-5/6 WH - Test adapter

3035983

https://www.phoenixcontact.com/us/products/3035983



4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

CLIPFIX 35 - End clamp

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

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