3042599

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COMBI coupling, nom. voltage: 800 V, nominal current: 32 A, number of connections: 2, number of positions: 1, connection method: Spring-cage connection, Rated cross section: 4 mm^2 , cross section: 0.08 mm^2 - 6 mm^2 , color: gray

Your advantages

- The ST-COMBI couplings for self-assembly provide solutions that users can implement themselves
- The coupling is assembled directly on site by snapping together single-position coupling elements
- · Tested for railway applications

Commercial data

Item number	3042599
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2145
Catalog page	Page 341 (C-1-2019)
GTIN	4046356012737
Weight per piece (including packing)	5.57 g
Weight per piece (excluding packing)	5.57 g
Customs tariff number	85366990
Country of origin	PL

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Technical data

Product properties

Product type	Terminal coupling		
Area of application	Railway industry		
	Machine building		
	Plant engineering		
Number of positions	1		
Pitch	6.2 mm		
Number of connections	2		
Number of rows	1		
Insulation characteristics			
Overvoltage category	III		
Degree of pollution	3		

Electrical properties

Rated surge voltage	8 KV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Nominal cross section	4 mm²
Stripping length	8 mm 10 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 61984
Conductor cross section rigid	0.08 mm² 6 mm²
Cross section AWG	28 10 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm² 4 mm²
Conductor cross section, flexible [AWG]	28 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm²
Nominal current	32 A
Maximum load current	32 A (with 6 mm ² conductor cross section)
Nominal voltage	800 V
Nominal cross section	4 mm²

Dimensions

Width	6.2 mm
End cover width	3.2 mm
Height	48.6 mm
Depth	22.3 mm
Pitch	6.2 mm

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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
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 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

Specification

Surge voltage test				
Result	Test passed			
Short-time withstand current 4 mm ²	0.48 kA			
Result	Test passed			
Power-frequency withstand voltage				
Test voltage setpoint	2 kV			
Result	Test passed			
Mechanical properties				
Mechanical data				
Open side panel	Yes			
Mechanical tests				
Attachment on the carrier				
Result	Test passed			
Environmental and real-life conditions				
Needle-flame test				
Time of exposure	30 s			
Result	Test passed			
Oscillation/broadband noise				

DIN EN 50155 (VDE 0115-200):2018-05

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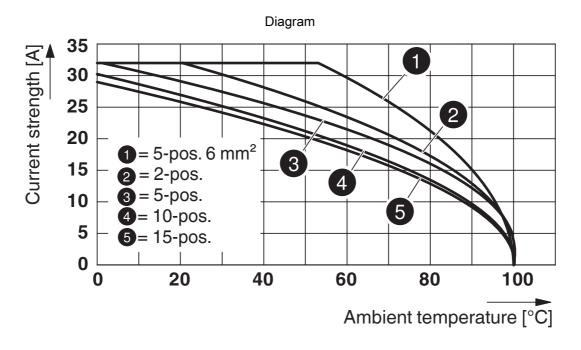
Spectrum	Service life test category 1, class B, body mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
ASD level	0.964 (m/s²)²/Hz
Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
locks	
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 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 (max. operating temperature see derating curve)
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 %
idards and regulations	
Connection in acc. with standard	IEC 61984
nting	
Assembly instructions	Use of a parallel pressing tool is recommended for easy latchin of the COMBI connector and coupling elements for self-assem

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Drawings



Circuit diagram



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Approvals

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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	30 A	28 - 10	-
Use group C				
	600 V	30 A	28 - 10	-

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Classifications

ECLASS

ECLASS-11.0	27141151
ECLASS-12.0	27141151
ECLASS-13.0	27250306

ETIM

	ETIM 9.0	EC002021		
UN	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%

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Accessories

D-SC 4 - End cover

3043307 https://www.phoenixcontact.com/us/products/3043307

End cover, depth: 48.6 mm, width: 3.2 mm, height: 22.3 mm, color: gray



SSL 2,5 - Panel feed-through

3043815 https://www.phoenixcontact.com/us/products/3043815



Panel feed-through, width: 5.2 mm, color: gray

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CZ/2 - Strain relief

3043831

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Strain relief, width: 19.8 mm, height: 28.9 mm, number of positions: 2, color: black

PC - Coding star

3040588 https://www.phoenixcontact.com/us/products/3040588



Coding star, 4-section, depth: 6 mm, width: 3 mm, height: 3 mm, color: red

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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



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MPS-IH RD - Insulating sleeve

0201676

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Insulating sleeve, color: red



MPS-IH BU - Insulating sleeve

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

Insulating sleeve, color: blue



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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



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MPS-IH GY - Insulating sleeve

0201728 https://www.phoenixcontact.com/us/products/0201728

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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ISH 4/0,5 - Insulating sleeve

3002885

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Insulating sleeve, color: gray

ISH 4/1,0 - Insulating sleeve

3002898 https://www.phoenixcontact.com/us/products/3002898



Insulating sleeve, color: black

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SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

ST-BW - Actuation tool

1207608 https://www.phoenixcontact.com/us/products/1207608



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