

https://www.phoenixcontact.com/pc/products/0709026

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Screw connection with tension sleeve, number of positions: 1, load current: 32 A, cross section: $0.2 \text{ mm}^2 - 6 \text{ mm}^2$, connection direction of the conductor to plug-in direction: -90 °, width: 8.1 mm

Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Tool-free snap-in principle enables easy mounting on the device panel
- · Automatic panel thickness compensation enables universal use

Commercial data

Item number	0709026
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	AA1AAB
Catalog page	Page 628 (CC-2009)
GTIN	4017918004880
Weight per piece (including packing)	8.523 g
Weight per piece (excluding packing)	8.523 g
Customs tariff number	85369010
Country of origin	GR

PHŒN



https://www.phoenixcontact.com/pc/products/0709026

Technical data

Product properties Panel feed-through terminal block Product type Product family HDFKV 4 Number of positions 1 Pitch 8.1 mm Number of connections 2 Number of rows 1 Number of potentials 1 Insulation characteristics Overvoltage category Ш Degree of pollution 3 **Electrical properties** Nominal current I_N 32 A 400 V (With metal panels of 1 mm ... 2.5 mm) Nominal voltage U_N Degree of pollution 3 Rated voltage (III/3) 400 V Rated surge voltage (III/3) 6 kV Connection data Connection technology Connector system HDFK 4 Nominal cross section 4 mm² Conductor connection exterior Connection method Screw connection with tension sleeve -90 ° Connection direction of the conductor to plug-in direction

Conductor cross section rigid	0.2 mm ² 6 mm ²
Conductor cross section flexible	0.2 mm ² 4 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 4 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 4 mm ²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 2.5 mm²
Internal cylindrical gage	A4
Stripping length	9 mm
Tightening torque	0.6 Nm 0.8 Nm

PHŒN



0709026

https://www.phoenixcontact.com/pc/products/0709026

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	-90 °
Conductor cross section rigid	0.2 mm ² 6 mm ²
Conductor cross section flexible	0.2 mm ² 4 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 4 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
2 conductors with same cross section, solid	0.2 mm ² 1.5 mm ²
2 conductors with same cross section, flexible	0.2 mm ² 1.5 mm ²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm ² 1.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 2.5 mm ²
Internal cylindrical gage	A4
Stripping length	9 mm
Tightening torque	0.6 Nm 0.8 Nm

Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	tin-plated

Material data - housing

5	
Color (Housing)	gray (7042)
Insulating material	PA
Insulating material group	1
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2- 13	775
Temperature for the ball pressure test according to EN 60695- 10-2	125 °C

Notes

Safety note

Safety note

• Only electrically qualified personnel may install and operate the product.

To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering.

• Observe the technical data provided here and refer to the documents listed under "Downloads". The download area contains important information, such as installation notes, technical drawings, and 3D data.

0709026

https://www.phoenixcontact.com/pc/products/0709026

• The cable entry funnel is not safe to touch. Never connect or disconnect the terminal when it is energized. Take appropriate steps to ensure touch protection.

PHŒNIX

• There is no electrical contact to the housing. Make sure that protective grounding is provided for green/yellow color variants and articles marked with PE.

Dimensions

Dimensional drawing	h2 h2 h1
Pitch	8.1 mm
Width [w]	8.1 mm
Height [h]	21 mm

External dimensions

Width [w]	8.1 mm
Height [h1]	20 mm
Length [I1]	24.5 mm

Internal dimensions

Width [w]	8.1 mm
Height [h2]	21 mm
Length [I2]	15 mm

Mechanical tests

Specification	IEC 60947-7-1:2009-04
Result	Test passed
Pull-out test	
Specification	IEC 60947-7-1:2009-04
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm² / solid / > 10 N
	0.2 mm² / flexible / > 10 N
	6 mm² / solid / > 80 N
	4 mm² / flexible / > 60 N

Electrical tests

Temperature-rise test	
Specification	IEC 60947-7-1:2009-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Short-time withstand current	
Specification	IEC 60947-7-1:2009-04



0709026

https://www.phoenixcontact.com/pc/products/0709026

Air clearances and creepage distances | 1. Insulation coordination

Application	Metal wall 1.0 mm 2.5 mm
Specification	IEC 60947-7-1:2009-04
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	5.5 mm

Air clearances and creepage distances | 2. Insulation coordination

Application	Metal wall > 2.5 mm 4.0 mm
Specification	IEC 60947-7-1:2002-07
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	3.2 mm

Air clearances and creepage distances | 3. Insulation coordination

Application	Plastic panel
Specification	IEC 60947-7-1:2002-07
Insulating material group	1
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	5.5 mm

Environmental and real-life conditions

'ibration test Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Glow-wire test	
Specification	IEC 60695-2-11:2014-02
Temperature	960 °C

Ambient conditions



0709026

https://www.phoenixcontact.com/pc/products/0709026

Ambient temperature (storage/transport)-40 °C 70 °CRelative humidity (storage/transport)30 % 70 %Ambient temperature (assembly)-5 °C 100 °C	Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)
	Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (assembly) -5 °C 100 °C	Relative humidity (storage/transport)	30 % 70 %
	Ambient temperature (assembly)	-5 °C 100 °C

Packaging specifications

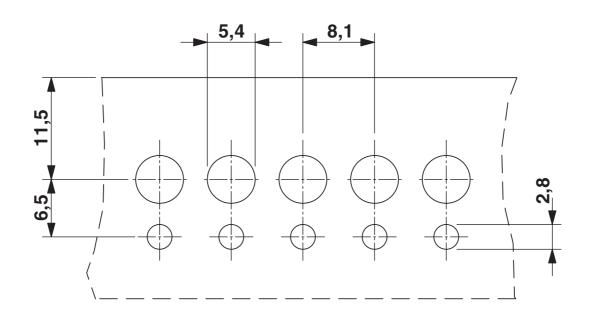
0709026

https://www.phoenixcontact.com/pc/products/0709026

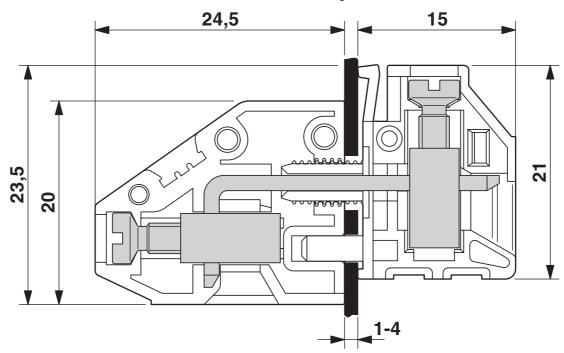


Drawings

Dimensional drawing



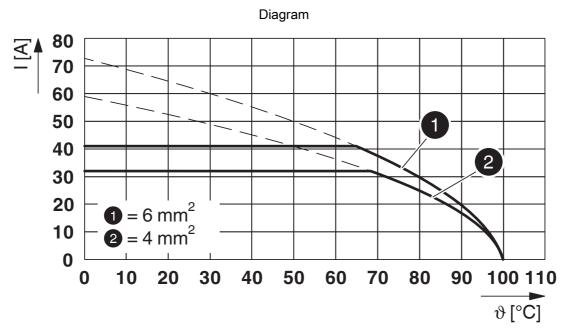
Dimensional drawing





0709026

https://www.phoenixcontact.com/pc/products/0709026



Type: HDFKV 4



0709026

https://www.phoenixcontact.com/pc/products/0709026

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/0709026

()	CSA Approval ID: 13631				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	30 A	22 - 10	-

CULus Recognized Approval ID: E60425-19870911				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	30 A	30 - 10	-
Use group D				
	300 V	10 A	30 - 10	-

KEUR	KEMA-KEUR Approval ID: 2169260.	01			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		250 V	32 A	-	- 4

0709026

https://www.phoenixcontact.com/pc/products/0709026



Classifications

ECLASS

ECLASS-13.0 27141134	ECLASS-11.0	27141134
ECLASS-12.0 27141134	ECLASS-13.0	27141134
	ECLASS-12.0	27141134

ETIM

	ETIM 9.0	EC001283
UN	ISPSC	
	UNSPSC 21.0	39121400

0709026

https://www.phoenixcontact.com/pc/products/0709026

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%

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com

