

DFK-2,8-FRONT 2,5 - Panel feed-through terminal block



0706508
<https://www.phoenixcontact.com/us/products/0706508>

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Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Solder/Slip-on connection, number of positions: 1, load current: 18 A, cross section: 0.2 mm² - 4 mm², connection direction of the conductor to plug-in direction: 0 °, width: 6.15 mm, color: gray

Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- Tool-free snap-in principle enables easy mounting on the device panel

Commercial data

Item number	0706508
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA28
Product key	AA1ABB
Catalog page	Page 362 (CL-2005)
GTIN	4017918003722
Weight per piece (including packing)	7.75 g
Weight per piece (excluding packing)	7.75 g
Customs tariff number	85369010
Country of origin	BG

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Technical data

Product properties

Product type	Panel feed-through terminal block
Number of positions	1
Pitch	6 mm
Number of connections	2
Number of rows	1
Number of potentials	1

Data management status

Article revision	05
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Nominal current I_N	17.5 A
Nominal voltage U_N	400 V
Rated voltage (III/3)	400 V
Rated surge voltage (III/3)	4 kV

Connection data

Connection technology

Nominal cross section	2.5 mm ²
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Conductor connection exterior

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 2.5 mm ²
2 conductors with same cross section, solid	0.2 mm ² ... 1 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	0.5 mm ² ... 0.75 mm ²
Internal cylindrical gage	A3
Stripping length	14 mm
Tightening torque	0.8 Nm ... 1 Nm

Conductor connection interior

Connection method	Solder/Slip-on connection
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Connection direction of the conductor to plug-in direction	0 °
Conductor cross section rigid	0.2 mm² ... 1.5 mm²
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Internal cylindrical gage	A3

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

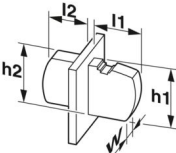
Color (Housing)	gray (7042)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V2

Notes

Safety note

Safety note	<ul style="list-style-type: none">• 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.• 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.
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Dimensions

Dimensional drawing	
Pitch	6 mm
Width [w]	6.15 mm
Height [h]	26.6 mm
Length [l]	41.4 mm

Mechanical tests

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Test for conductor damage and slackening

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 mm ² / solid / > 10 N
	0.2 mm ² / flexible / > 10 N
	4 mm ² / solid / > 60 N
	2.5 mm ² / flexible / > 50 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
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Air clearances and creepage distances | 1. Insulation coordination

Specification	IEC 60947-7-1:2009-04
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	400 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	5 mm

Environmental and real-life conditions

Vibration 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
Test directions	X-, Y- and Z-axis

Glow-wire test

Specification	IEC 60695-2-11:2014-02
Temperature	960 °C
Time of exposure	30 s

Ambient conditions

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

Packaging specifications

Type of packaging	packed in cardboard
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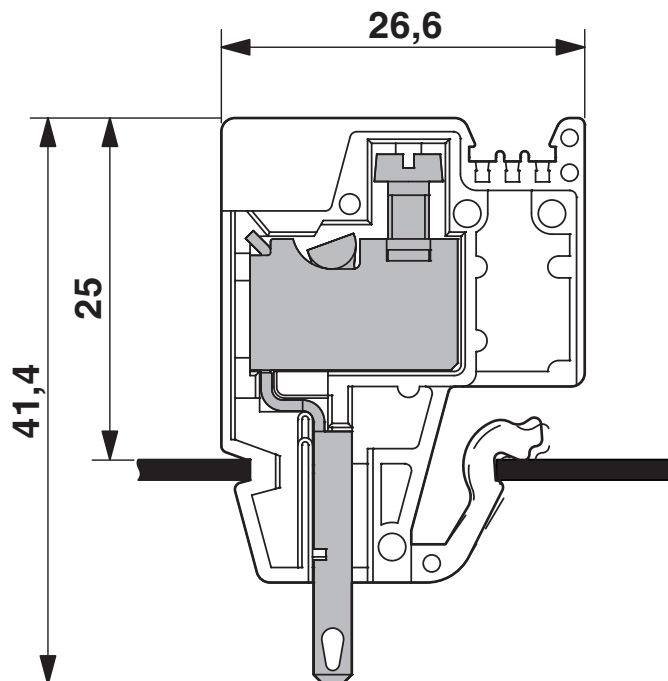
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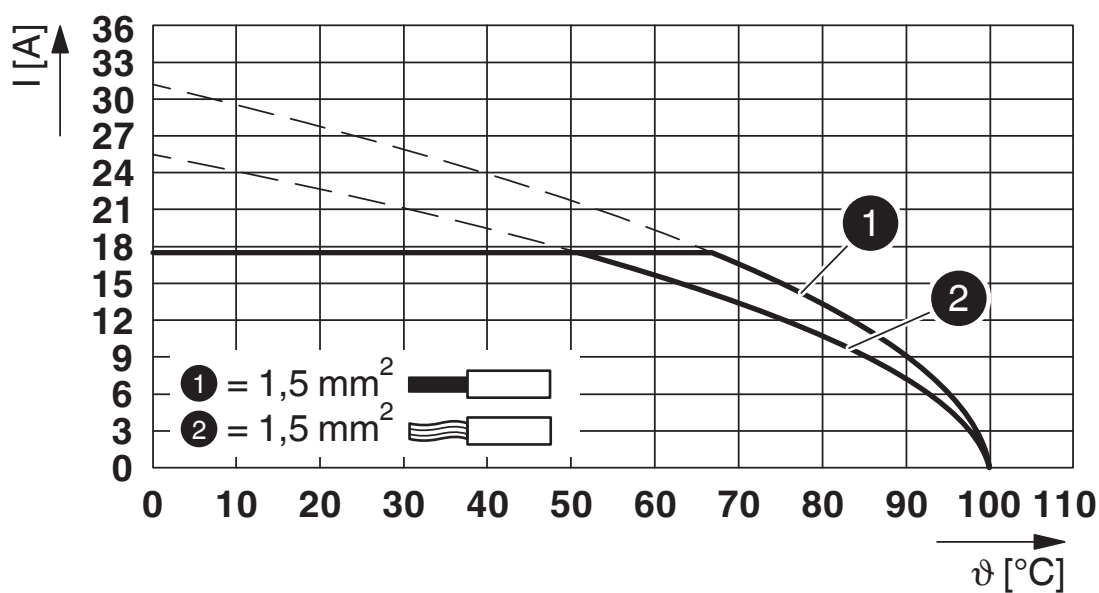
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Drawings

Dimensional drawing



Diagram



Type: DFK-2,8-FRONT 2,5

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0706508>

	CSA			
	Approval ID: 13631			
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
		300 V	15 A	22 - 12
				Cross section mm ²
				-

	cULus Recognized			
	Approval ID: E60425-19900730			
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
		300 V	15 A	28 - 12
				Cross section mm ²
				-

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001283
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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

SBS 6:UNBEDRUCKT - Marker card

1007222

<https://www.phoenixcontact.com/us/products/1007222>



Marker card, Card, white, unlabeled, can be labeled with: Marker pen, mounting type: snapped, snap into flat marker groove, for terminal block width: 6 mm, lettering field size: 6 x 6.1 mm, Number of individual labels: 250

SZS 0,6X3,5 VDE - Screwdriver

1212602

<https://www.phoenixcontact.com/us/products/1212602>



Screwdriver, slot-headed, VDE insulated, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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SF-BIT-SL 0,6X3,5-70 - Screw insert

1212569

<https://www.phoenixcontact.com/us/products/1212569>



Screw bit, slot, E6.3-1/4" drive, Size: 0.6 x 3.5 x 70 mm, hardened, suitable for holders as per DIN 3126-F 6.3 / ISO 1173

CRIMPFOX CENTRUS 10S - Crimping pliers

1213154

<https://www.phoenixcontact.com/us/products/1213154>



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm² ... 10 mm², also for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, lateral insertion, equipped with fall protection

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CRIMPFOX-RCI 6 - Crimping pliers

1212057

<https://www.phoenixcontact.com/us/products/1212057>



Crimping pliers, for insulated cable lugs, 0.5 mm² ... 6.0 mm² (red, blue, yellow), oval crimp, symmetrical

C-SCFFI 1,5/2,8X0,8 - Connector

3240535

<https://www.phoenixcontact.com/us/products/3240535>



Slip-on sleeve, fully isolated, red, 0.5 ... 1.5 mm², for plug 2.8 x 0.8 mm

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