

CERTIFICATE

Issued to:
Applicant:
PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8
32825 Blomberg, Germany

Manufacturer/Licensee:
PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8
32825 Blomberg, Germany

Product(s) : terminal blocks
Trade name(s) : PHOENIX CONTACT
Type(s)/model(s) : HDFK...,
HDFKV...,
VDFK...

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 60947-7-1:2009
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 900469

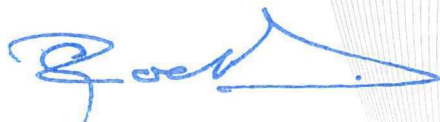
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

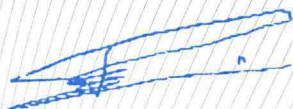
This certificate is issued on: 26 February 2014 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2169260.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



F.S. Strikwerda
Certification Manager

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DUTCH ACCREDITATION
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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

product	:	terminal blocks	
trade name(s)	:	PHOENIX CONTACT	
type(s)	:	HDFK 4	HDFKV 4
		HDFK 10	HDFKV 10
		HDFK 10-HV	HDFKV 10-HV
		HDFK 10-VP	HDFKV 10-VP
		HDFK 10-VP-HV	HDFKV 10-VP-HV
		HDFK 16,	HDFKV 16
		HDFK 16VP	HDFKV 16-VP
		HDFK 50	HDFKV 50
		HDFK 50-VP	HDFKV 50-VP
		HDFK 50-DP	HDFKV 50-VP-IB
		HDFK 50-IB	
		VDFK 4	VDFK 4-DP
		VDFK 4/K	VDFK 4/K-DP
		VDFK 6	VDFK 6-DP
		VDFK 6/K	VDFK 6/K-DP
material	:	thermoplastic material	

Product data - type HDFK 4

rated connecting capacity	:	4 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 6 mm ² rigid 0,2 mm ² - 4 mm ² flexible two conductors: 0,2 mm ² - 1,5 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
rated current	:	32 A
rated voltage	:	250 V (metal panels 2,5 - 4 mm) 400 V (plastic panels 1 - 4 mm) 400 V (metal panels 1 - 2,5 mm)
rated impulse withstand voltage	:	4 kV (metal panels 2,5 - 4 mm) 6 kV (metal panels 1 - 2,5 mm) (plastic panels 1 - 4 mm)
description	:	feed-through terminal block, with internal and external screw connection, for 1 - 4 mm housing panels

Product data - type HDFKV 4

rated connecting capacity	: 4 mm ² rigid and flexible
connectable conductors	: one conductor: 0,2 mm ² - 6 mm ² rigid 0,2 mm ² - 4 mm ² flexible two conductors: 0,2 mm ² - 1,5 mm ² rigid and flexible
method of mounting	: for 1 - 4 mm thick panels
rated current	: 32 A
rated voltage	: 250 V (metal panels 2,5 - 4 mm) 400 V (plastic panels 1 - 4 mm) 400 V (metal panels 1 - 2,5 mm)
rated impulse withstand voltage	: 4 kV (metal panels 2,5 - 4 mm) 6 kV (plastic panels 1 - 4 mm) (metal panels 1 - 2,5 mm)
description	: feed-through terminal block, with internal and external screw connection, for 1-4 mm housing panels

Product data - type HDFK 10

rated connecting capacity	: 10 mm ² rigid and flexible
connectable conductors	: one conductor: 0,5 mm ² - 16 mm ² rigid 0,5 mm ² - 10 mm ² flexible two conductors: 0,5 mm ² - 4 mm ² rigid and flexible
method of mounting	: for 1 - 4 mm thick panels
torque	: 1,5 Nm
rated current	: 57 A
rated voltage	: 250 V (metal panels 2,5 - 4 mm) 400 V (metal panels 1 - 2,5 mm) 500 V (plastic panels 1 - 4 mm)
rated impulse withstand voltage	: 4 kV (metal panels 1 - 4 mm) 6 kV (metal panels 1 - 2,5 mm) (plastic panels 1 - 4 mm)
description	: feed-through terminal block, with internal and external screw connection, for 1-4 mm housing panels

Product data - type HDFKV 10

rated connecting capacity	:	10 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 16 mm ² rigid 0,5 mm ² - 10 mm ² flexible two conductors: 0,5 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
torque	:	1,5 Nm
rated current	:	57 A
rated voltage	:	250 V (metal panels 2,5 - 4 mm) 400 V (metal panels 1 - 2,5 mm) 500 V (plastic panels 1 - 4 mm)
rated impulse withstand voltage	:	4 kV (metal panels 2,5 - 4 mm) 6 kV (metal panels 1 - 2,5 mm) (plastic panels 1 - 4 mm)
description	:	feed-through terminal block, with internal and external screw connection, external for vertical conductor connection, for 1 - 4 mm housing panels

Product data - type HDFK 10-HV

rated connecting capacity	:	10 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 16 mm ² rigid 0,5 mm ² - 10 mm ² flexible two conductors: 0,5 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
torque	:	1,5 Nm
rated current	:	57 A
rated voltage	:	1000 V
rated impulse withstand voltage	:	6 kV
description	:	high current panel feed-through terminal block, for 1 - 4 mm housing panels, with internal and external screw connection

Product data - type HDFKV 10-HV

rated connecting capacity	:	10 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 16 mm ² rigid 0,5 mm ² - 10 mm ² flexible two conductors: 0,5 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
torque	:	1,5 Nm
rated current	:	57 A
rated voltage	:	1000 V
rated impulse withstand voltage	:	6 kV
description	:	high current panel feed-through terminal block, for 1 - 4 mm housing panels, with internal and external screw connection

Product data - type HDFK 10-VP

rated connecting capacity	:	10 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 16 mm ² rigid 0,5 mm ² - 10 mm ² flexible two conductors: 0,5 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
torque	:	1,5 Nm
rated current	:	57 A
rated voltage	:	250 V (metal panels 2,5 - 4 mm) 400 V (metal panels 1 - 2,5 mm) 500 V (plastic panels 1 - 4 mm)
rated impulse withstand voltage	:	4 kV (metal panels 2,5 - 4 mm) 6 kV (metal panels 1 - 2,5 mm) (plastic panels 1 - 4 mm)
description	:	feed-through terminal block, internal with solder connection and sealing plate, for 1 - 4 mm housing panels

Product data - type HDFKV 10-VP

rated connecting capacity	:	10 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 16 mm ² rigid 0,5 mm ² - 10 mm ² flexible two conductors: 0,5 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
torque	:	1,5 Nm
rated current	:	57 A
rated voltage	:	250 V (metal panels 2,5 - 4 mm) 400 V (metal panels 1 - 2,5 mm) 500 V (plastic panels 1 - 4 mm)
rated impulse withstand voltage	:	4 kV (metal panels 2,5 - 4 mm) 6 kV (metal panels 1 - 2,5 mm) (plastic panels 1 - 4 mm)
description	:	feed-through terminal block, internal with solder connection and sealing plate, for 1 - 4 mm housing panels

Product data - type HDFK 10-VP-HV

rated connecting capacity	:	10 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 16 mm ² rigid 0,5 mm ² - 10 mm ² flexible two conductors: 0,5 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
torque	:	1,5 Nm
rated current	:	57 A
rated voltage	:	1000 V
rated impulse withstand voltage	:	6 kV
description	:	high current molded feed-through terminal block, for 1 - 4 mm thick housing panels, inside with solder connection and sealing plate

Product data - type HDFKV 10-VP-HV

rated connecting capacity	:	10 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 16 mm ² rigid 0,5 mm ² - 10 mm ² flexible two conductors: 0,5 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
torque	:	1,5 Nm
rated current	:	57 A
rated voltage	:	1000 V
rated impulse withstand voltage	:	6 kV
description	:	high current panel feed-through terminal block, for 1 - 4 mm housing panels, with internal and external screw connection with solder connection and sealing plate

Product data - type HDFK 16

rated connecting capacity	:	16 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 25 mm ² rigid 0,5 mm ² - 16 mm ² flexible two conductors: 0,5 mm ² - 6 mm ² rigid and flexible
method of mounting	:	for 1 - 5 mm thick panels
torque	:	2 Nm
rated current	:	76 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	feed-through terminal block, with internal and external screw connection, for 1 - 5 mm housing panels

Product data - type HDFKV 16

rated connecting capacity	:	16 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 25 mm ² rigid 0,5 mm ² - 16 mm ² flexible two conductors: 0,5 mm ² - 6 mm ² rigid and flexible
method of mounting	:	for 1 - 5 mm thick panels
torque	:	2 Nm
rated current	:	76 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	feed-through terminal block, with internal and external screw connection, external for vertical screw connection for 1 - 5 mm housing panels

Product data - type HDFK 16-VP

rated connecting capacity	:	16 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 25 mm ² rigid 0,5 mm ² - 16 mm ² flexible two conductors: 0,5 mm ² - 6 mm ² rigid and flexible
method of mounting	:	for 1 - 5 mm thick panels
torque	:	2 Nm screw connection 2,3 Nm screw connection inside
rated current	:	76 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with internal and external screw connection, for 1 - 5 mm housing panels

Product data - type HDFKV 16-VP

rated connecting capacity	:	16 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,5 mm ² - 25 mm ² rigid 0,5 mm ² - 16 mm ² flexible two conductors: 0,5 mm ² - 6 mm ² rigid and flexible
method of mounting	:	for 1 - 5 mm thick panels
torque	:	2 Nm screw connection 2,3 Nm screw connection inside
rated current	:	76 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	feed-through terminal block, with internal and external screw connection, external for vertical screw connection for 1 - 5 mm housing panels

Product data - type HDFK 50

rated connecting capacity	: 50 mm ² rigid and flexible
connectable conductors	: one conductor: 16 mm ² - 50 mm ² rigid and flexible two conductors: 6 mm ² rigid 10 mm ² flexible 16 mm ² rigid and flexible
method of mounting	: for 1 - 6 mm thick panels
torque	: 6 Nm
rated current	: 150 A
rated voltage	: 690 V
rated impulse withstand voltage	: 8 kV
description	: feed-through terminal block, with internal and external screw connection, for 1 - 6 mm housing panels

Product data - type HDFKV 50

rated connecting capacity	: 50 mm ² rigid and flexible
connectable conductors	: one conductor: 16 mm ² - 50 mm ² rigid and flexible two conductors: 6 mm ² rigid 10 mm ² flexible 16 mm ² rigid and flexible
method of mounting	: for 1 - 6 mm thick panels
rated current	: 150 A
rated voltage	: 690 V
rated impulse withstand voltage	: 8 kV
description	: feed-through terminal block, with internal and external screw connection, vertical conductor connection for 1 - 6 mm housing panels

Product data - type HDFK 50-VP

rated connecting capacity	: 50 mm ² rigid and flexible
connectable conductors	: one conductor: 16 mm ² - 50 mm ² rigid and flexible two conductors: 6 mm ² rigid 10 mm ² flexible 16 mm ² rigid and flexible
method of mounting	: for 1 - 6 mm thick panels
torque	: 6 Nm screw connection 12 - 15 Nm Bolt connection
rated current	: 150 A
rated voltage	: 690 V
rated impulse withstand voltage	: 8 kV
description	: molded feed-through terminal block, with internal and external screw connection, for 1 - 6 mm housing panels

Product data - type HDFKV 50-VP

rated connecting capacity	:	50 mm ² rigid and flexible
connectable conductors	:	one conductor: 16 mm ² - 50 mm ² rigid and flexible two conductors: 6 mm ² rigid 10 mm ² flexible 16 mm ² rigid and flexible
method of mounting	:	for 1 - 6 mm thick panels
rated current	:	150 A
rated voltage	:	690 V
rated impulse withstand voltage	:	8 kV
description	:	molded feed-through terminal block, with internal and external screw connection, vertical conductor connection for 1 - 6 mm housing panels

Product data - type HDFK 50-DP

rated connecting capacity	:	50 mm ² rigid and flexible
connectable conductors	:	one conductor: 16 mm ² - 50 mm ² rigid and flexible two conductors: 6 mm ² rigid 10 mm ² flexible 16 mm ² rigid and flexible
method of mounting	:	for 5 - 10 mm thick panels
torque	:	6 Nm
rated current	:	150 A
rated voltage	:	690 V
rated impulse withstand voltage	:	8 kV
description	:	feed-through terminal block, with internal and external screw connection, for 5 - 10 mm housing panels

Product data - type HDFK 50-VP-IB

rated connecting capacity	:	50 mm ² rigid and flexible
connectable conductors	:	one conductor: 16 mm ² - 50 mm ² rigid and flexible two conductors: 6 mm ² rigid 10 mm ² flexible 16 mm ² rigid and flexible
method of mounting	:	for 1 - 6 mm thick panels
Torque	:	8 Nm
rated current	:	150 A
rated voltage	:	690 V
rated impulse withstand voltage	:	8 kV
description	:	molded feed-through terminal block, with internal and external socket head connection, for 1 - 6 mm housing panels

Product data - type HDFK 50-IB

rated connecting capacity	:	50 mm ² rigid and flexible
connectable conductors	:	one conductor: 16 mm ² - 50 mm ² rigid and flexible two conductors: 6 mm ² rigid 10 mm ² flexible 16 mm ² rigid and flexible
method of mounting	:	for 1 - 6 mm thick panels
torque	:	8 Nm
rated current	:	150 A
rated voltage	:	690 V
rated impulse withstand voltage	:	8 kV
description	:	feed-through terminal block, with internal and external socket head connection, for 1 - 6 mm housing panels

Product data - type VDFK 4

rated connecting capacity	:	4 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 6 mm ² rigid 0,2 mm ² - 4 mm ² flexible two conductors: 0,2 mm ² - 1,5 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
rated current	:	32 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with solder connection inside, 4 mm ² screw connection outside, for 1 - 4 mm housing panels, fixed with knurled nuts

Product data - type VDFK 4-DP

rated connecting capacity	:	4 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 6 mm ² rigid 0,2 mm ² - 4 mm ² flexible two conductors: 0,2 mm ² - 1,5 mm ² rigid and flexible
method of mounting	:	for 4 - 8 mm thick panels
rated current	:	32 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with solder connection inside, 4 mm ² screw connection outside, for 4 mm - 8 mm housing panels, fixed with knurled nuts

Product data - type VDFK 6-DP

rated connecting capacity	:	6 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 10 mm ² rigid 0,2 mm ² - 6 mm ² flexible two conductors: 0,2 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 4 - 8 mm thick panels
rated current	:	41 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with solder connection inside, 6 mm ² screw connection outside, for 4 mm - 8 mm housing panels, fixed with knurled nuts

Product data - type VDFK 6/K

rated connecting capacity	:	6 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 10 mm ² rigid 0,2 mm ² - 6 mm ² flexible two conductors: 0,2 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
rated current	:	41 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with solder connection inside, 6 mm ² screw connection outside, for 1 - 4 mm housing panels, fixed with enclosed snap-on wedges

Product data - type VDFK 6/K-DP

rated connecting capacity	:	6 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 10 mm ² rigid 0,2 mm ² - 6 mm ² flexible two conductors: 0,2 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 4 - 7 mm thick panels
rated current	:	41 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with solder connection inside, 6 mm ² screw connection outside, for 4 mm - 7 mm housing panels, fixed with enclosed snap-on wedges

Product data - type VDFK 4/K

rated connecting capacity	:	4 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 6 mm ² rigid 0,2 mm ² - 4 mm ² flexible two conductors: 0,2 mm ² - 1,5 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
rated current	:	32 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with solder connection inside, 4 mm ² screw connection outside, for 1 - 4 mm housing panels, fixed with enclosed snap-on wedges

Product data - type VDFK 4/K-DP

rated connecting capacity	:	4 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 6 mm ² rigid 0,2 mm ² - 4 mm ² flexible two conductors: 0,2 mm ² - 1,5 mm ² rigid and flexible
method of mounting	:	for 4 - 7 mm thick panels
rated current	:	32 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with solder connection inside, 4 mm ² screw connection outside, for 4 mm - 7 mm housing panels, fixed with enclosed snap-on wedges

Product data - type VDFK 6

rated connecting capacity	:	6 mm ² rigid and flexible
connectable conductors	:	one conductor: 0,2 mm ² - 10 mm ² rigid 0,2 mm ² - 6 mm ² flexible two conductors: 0,2 mm ² - 4 mm ² rigid and flexible
method of mounting	:	for 1 - 4 mm thick panels
rated current	:	41 A
rated voltage	:	500 V
rated impulse withstand voltage	:	6 kV
description	:	molded feed-through terminal block, with solder connection inside, 6 mm ² screw connection outside, for 1 - 4 mm housing panels, fixed with knurled nuts

TESTS

Test requirements
EN 60947-7-1:2009

Test result

The test results are laid down in DEKRA test file 2169260.01.

Remarks

The terminal blocks with VP in the type name must be potted at the internal side of the wall plate.

This certificate replaces certificate 2092667.03 dated 14 July 2006.

Conclusion

The examination proved that all test requirements were met.

Tested by : W.C. van Ginkel



Checked by : H.L. Schendstok

**Factory locations**

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8, 32825, Blomberg
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