



**VDE Test Report**

Report No. .... :	235964-TL6-1
VDE File No. .... :	5018795-5450-0001/235964
Date of issue..... :	2018-08-15
Laboratory ..... :	<b>VDE Testing and Certification Institute</b>
Address ..... :	Merianstrasse 28 63069 Offenbach/Main; Germany
Testing location/ address ..... :	<b>VDE Testing and Certification Institute</b> Merianstrasse 28 63069 Offenbach/Main; Germany
Applicant's name ..... :	BAKS - Kazimierz Sielski
Applicant's address ..... :	ul. Jagodne 5; 05-480 KARCZEW; POLAND
Applied standard(s) ..... :	DIN EN 50085-1 (VDE 0604-1):2006-03; EN 50085-1:2005
Test item description ..... :	Cable trunking systems
Type reference(s) ..... :	Machines power supply Underfloor trunking Wall trunking system

Test sample condition ..... :	<input checked="" type="checkbox"/> Non-damaged samples
	Remark: _____
Sample entry date ..... :	2018-05-25
Date (s) of performance of tests..... :	2018-06-18 – 2018-08-10

Tested by..... :	P. Hüfner	
Name, Signature..... :	(Authorization of test report)	
Function..... :	Testing engineer	
Verified by..... :	R. Lehrer	
Name, Signature..... :		
Function..... :	Reviewer	

Report No.:	235964-TL6-1	Page	1	of	7
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**Disclaimer:**

This test report contains the result of a singular investigation carried out on the product submitted. A sample of this product was tested to found the accordance with the thereafter listed standards or clauses of standards resp.

The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below.

Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.



<b>Possible test case verdicts:</b>	
Test case does not apply to the test object :	N/A
Test object does meet the requirement..... :	P (Pass)
Test object does not meet the requirement :	F (Fail)

<b>Final Verdict:</b>	<input checked="" type="checkbox"/> <b>P</b>	<input type="checkbox"/> <b>F</b>
Remark .....		

Environmental conditions (if applicable)	Ambient temperature	Atmospheric pressure	Relative humidity
Rated values..... :	15-25 °C	860-1060 hPa	30-60 %
Verified values .....	23 °C	N/A	N/A

**Description of testing samples:**

Representative for the cable trunking systems of manufacturer BAKS, the following listed types have been tested.

Designation	Type
Machines power supply	KMPC300H100/2
	KMPC600H50/2
	KMPC600H200/2
	KMP50H50/2
	KMP600H200/2
	KMC300H100/2
Underfloor trunking	KN175H28/2
	KN340H48/2
	KNt175H28/2
	KNt340H48/2
	KNd190H38/2
Wall trunking system	KS115H68/2
	KS170H68/2
	KS170H100/2
	KSd215H100/2

**Test procedure:**

On the request of the applicant the test of the electrical continuity was carried out on the selected samples according to DIN EN 50085-1 (VDE 0604-1):2006-03; EN 50085-1:2005, Sub-clause 11.1.

**Electrical continuity:**

A current derived from an AC source having a no-load voltage not exceeding 12 V and equal to 25 A  $\pm$  1 A at the nominal frequency of 50 Hz is passed through the sample arrangements, and the voltage drop is measured.

Impedance of ducting length or trunking length

The voltage drop is measured between two convenient points.

The calculated impedances shall not be greater than the declared manufacturer's value.

Type	Measured voltage drop	Calculated impedance
KMPC300H100/2	1,0 mV	0,00008 $\Omega$ /m
KMPC600H50/2	1,5 mV	0,00012 $\Omega$ /m
KMPC600H200/2	0,4 mV	0,00003 $\Omega$ /m
KMP50H50/2	3,4 mV	0,00027 $\Omega$ /m
KMP600H200/2	1,8 mV	0,00014 $\Omega$ /m
KMC300H100/2	3,2 mV	0,00026 $\Omega$ /m
KN175H28/2	3,3 mV	0,00026 $\Omega$ /m
KN340H48/2	1,7 mV	0,00014 $\Omega$ /m
KNt175H28/2	3,2 mV	0,00026 $\Omega$ /m
KNt340H48/2	1,6 mV	0,00013 $\Omega$ /m
KNd190H38/2	2,7 mV	0,00022 $\Omega$ /m
KS115H68/2	4,9 mV	0,00039 $\Omega$ /m
KS170H68/2	3,8 mV	0,00031 $\Omega$ /m
KS170H100/2	3,4 mV	0,00027 $\Omega$ /m
KSD215H100/2	1,9 mV	0,00015 $\Omega$ /m

Impedance of a joint

The voltage drop is measured between two convenient points each on one side of the joint and separated by a distance of at least 50 mm from the coupling area.

The calculated impedances shall not be greater than 50 mΩ.

Type	Coupler	Measured voltage drop	Calculated impedance
KMPC300H100/2	LKMC300H100	2,3 mV	0,06 mΩ
KMPC600H50/2	LKMC600H50	5,7 mV	0,2 mΩ
KMPC600H200/2	LKMC600H200	2,7 mV	0,08 mΩ
KMP50H50/2	LKMP50H50	3,6 mV	0,11 mΩ
KMP600H200/2	LKMC600H200	2,9 mV	0,09 mΩ
KMC300H100/2	LKMC300H100	2,6 mV	0,07 mΩ
KN175H28/2	NSK175H28	31,4 mV	1,18 mΩ
KN340H48/2	NSK340H48	8,3 mV	0,26 mΩ
KNt175H28/2	NSK175H28	27,8 mV	1,04 mΩ
KNt340H48/2	NSK340H48	9,5 mV	0,31 mΩ
KNd190H38/2	NSK190H38	60,6 mV	2,35 mΩ
KS115H68/2	LKSH68	23,2 mV	0,86 mΩ
KS170H68/2	LKSH68	8,8 mV	0,29 mΩ
KS170H100/2	LKSH100	11,6 mV	0,39 mΩ
KSd215H100/2	LKSH100	7,4 mV	0,23 mΩ

Impedance of connection between trunking base and access cover

The voltage drop is measured between both sides of the connection.

The calculated impedances shall not be greater than 50 mΩ.

Type	Measured voltage drop	Calculated impedance
KMPC300H100/2	1,5 mV	0,06 mΩ
KMPC600H50/2	2,2 mV	0,09 mΩ
KMPC600H200/2	5,7 mV	0,23 mΩ
KMP50H50/2	14,5 mV	0,58 mΩ
KMP600H200/2	2,5 mV	0,1 mΩ
KMC300H100/2	7,3 mV	0,29 mΩ
KN175H28/2	1,6 mV	0,06 mΩ
KN340H48/2	1,1 mV	0,04 mΩ
KNt175H28/2	0,5 mV	0,02 mΩ
KNt340H48/2	0,8 mV	0,03 mΩ
KNd190H38/2	1,5 mV	0,06 mΩ
KS115H68/2	N/A	N/A
KS170H68/2	N/A	N/A
KS170H100/2	N/A	N/A
KSd215H100/2	N/A	N/A

Impedance of the connection of the earthing terminal or termination

The voltage drop is measured between the earthing terminal or termination and a point separated by a distance of 10 mm to 20 mm from the edge of the earthing terminal or termination along the line of current flow.

The calculated impedances shall not be greater than 50 mΩ.

Type	Measured voltage drop	Calculated impedance
KMPC300H100/2	N/A	N/A
KMPC600H50/2	N/A	N/A
KMPC600H200/2	N/A	N/A
KMP50H50/2	N/A	N/A
KMP600H200/2	N/A	N/A
KMC300H100/2	N/A	N/A
KN175H28/2	N/A	N/A
KN340H48/2	N/A	N/A
KNt175H28/2	N/A	N/A
KNt340H48/2	N/A	N/A
KNd190H38/2	N/A	N/A
KS115H68/2	67,2 mV	2,7 mΩ
KS170H68/2	65,8 mV	2,6 mΩ
KS170H100/2	67,3 mV	2,7 mΩ
KSd215H100/2	71,2 mV	2,8 mΩ

**Testing and measuring equipment:**

Description of test equipment	Inventory-Nr.	Manufacturer
Alternating-Current source	1430308	Reo
Current clamp	1090723	Kyoritsu
Multimeter	1060781	Agilent