

# 防爆合格证

证号: GYJ20.1195U

由 Phoenix Contact GmbH & Co. KG

制造的产品:

(地址: Flachsmarktstrasse 8, 32825 Blomberg, Germany)

名称 接线端子/接地端子

型号规格 UK系列、USLKG系列、AGK 10-UKH系列、UKH系列、  
MSLKG 5、UHSK/S 2000

防爆标志 Ex eb IIC

产品标准 /

图样编号 见本证书附件

经图样及技术文件的审查和样品检验, 确认上述产品  
符合 GB 3836.1-2010、GB 3836.3-2010 标准,  
特颁发此证。

本证书有效期: 2020年10月22日至2025年10月21日

备注 1. 安全使用注意事项见本证书附件。  
2. 证书编号后缀“U”表明产品具有安全使用特殊条件, 内容见本证书附件。  
3. 型号规格说明见本证书附件。

站长

国家级仪器仪表防爆安全监督检验站

颁发日期二〇二〇年十月二十二日

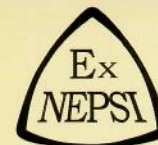
本证书仅对与认可文件和样品一致的产品有效。

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# EXPLOSION PROTECTION

## CERTIFICATE OF CONFORMITY

Cert NO.GYJ20.1195U

This is to certify that the product

**Terminal Blocks/Protective conductor terminal blocks**  
**manufactured by** Phoenix Contact GmbH & Co. KG  
(Address:Flachsmarktstrasse 8, 32825 Blomberg ,Germany)  
**which model is** UK series、USLKG series、AGK 10-UKH series、  
UKH series、MSLKG 5、UHSK/S 2000  
**Ex marking** Ex eb IIC

**product standard** /

**drawing number** See the attachment to this certificate

has been inspected and certified by NEPSI, and that it conforms  
to GB 3836.1-2010,GB 3836.3-2010

**This Approval shall remain in force until** 2025.10.21

**Remarks** 1.Conditions for safe use are specified in the attachment(s) to this certificate.  
2.Symbol "U" placed after the certification number denotes specific conditions of use,  
which are specified in the attachment(s) to this certificate.  
3.Model designation is specified in the attachment(s) to this certificate.

**Director**

National Supervision and Inspection Centre for  
Explosion Protection and Safety of Instrumentation

Issued Date 2020.10.22

This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

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# 国家级仪器仪表防爆安全监督检验站

## National Supervision and Inspection Centre for Explosion Protection and Safety of InUTrumentation

(GYJ20.1195U)

(Attachment I)

### GYJ20.1195U防爆合格证附件 I

由Phoenix Contact GmbH & Co. KG生产的UK系列、USLKG系列、AGK 10-UKH系列、UKH系列、MSLKG 5和UHSK/S 2000接线端子/接地端子，经国家级仪器仪表防爆安全监督检验站(NEPSI)检验，符合下列标准：

GB 3836.1-2010 爆炸性环境 第1部分：设备 通用要求

GB 3836.3-2010 爆炸性环境 第3部分：由增安型“e”保护的的设备

产品防爆标志为Ex eb IIC，防爆合格证号为GYJ20.1195U。

本证书认可的产品、总装图及额定参数如下表所示：

注：产品型号后缀表示端子颜色，与防爆性能无关。（下列表格中型号规格未标注后缀）

型号规格		UK 10 N	UK 16 N	UK 35(-IB)	UKH 50(-IB)	UKH 95
图号		00210749	00210751	00210753	00210755	00210757
额定绝缘电压(V)		630	630	630	630	800
额定电压(V)		690	690	690	690	880
	带FB(I)桥接	690	690	690	690	-
	带EB桥接	690	-	690	-	690
	带KB(I)桥接	-	-	-	-	-
额定电流(A)		53.5	68	118.5	133	216
	带FB(I)桥接	51.5	66	118.5	130.5	-
	带EB桥接	50	-	105.5	-	177
	带KB(I)桥接	-	-	116	-	-
	接触电阻 (mΩ)	0.12	0.17	0.08	0.1	0.06
额定导线规格 (AWG)	刚性	20-6	14-4	18-1/0	6-1/0	4-3/0
额定导线规格 (AWG)	柔性	20-8	12-6	18-2	4-1/0	2-3/0
多组导线额定规格(AWG)	刚性	20-12	16-10	18-6	8-6	4-2
多组导线额定规格(AWG)	柔性	20-12	16-12	18-8	8-6	4-2
工作温度		-60℃~+110℃				



型号规格		AGK 10-UKH 50	AGK 10-UKH 95	AGK 10-UKH 150/240
图号		00294821	00294821	00380534
额定绝缘电压(V)		630	800	1000
额定电压(V)		690	880	1100
额定电流(A)		57	57	57
	接触电阻 (mΩ)	0.6	0.6	0.7
额定导线规格(AWG)	刚性	20-8	20-8	20-8
额定导线规格(AWG)	柔性	20-8	20-8	20-8
多组导线额定规格 (AWG)	刚性	20-10	20-10	20-10
多组导线额定规格 (AWG)	柔性	20-10	20-10	20-10
工作温度		-60℃~+110℃		

型号规格		UKH 150	UKH 240
图号		00260137	00260139
额定绝缘电压(V)		1000	1000
额定电压(V)		1100	1100
	带EB桥接	880	690
额定电流(A)		256	350
	带EB桥接	195.5	270
	接触电阻 (mΩ)	0.06	0.03
额定导线规格 (AWG/kcmil)	刚性	2-300	2/0-500
额定导线规格 (AWG/kcmil)	柔性	1/0-300	2/0-500
多组导线额定规格 (AWG)	刚性	4-1/0	2-3/0
多组导线额定规格 (AWG)	柔性	2-1/0	1/0-3/0
工作温度		-60℃~+110℃	

型号规格		UK 1.5 N	UK 3 N
图号		00206701	00208482
安装导轨		NS 35和NS 32	NS 35和NS 32
额定绝缘电压(V)		320	630



额定电压(V)		352	690
	带桥接	69	176
额定电流(A)		15.5	21.5
	带FBRN桥接	15.5	-
	带FBR桥接	-	18.5
	带EBL桥接	-	20
	接触电阻 (mΩ)	0.45	0.5
额定导线规格 (AWG)	刚性	26-16	24-12
额定导线规格 (AWG)	柔性	26-16	24-14
多组导线额定规格 (AWG)	刚性	26-18	24-16
多组导线额定规格 (AWG)	柔性	26-18	24-16
工作温度		-60℃~+110℃	

型号规格		UK 5 N		UK 6 N
图号		00208889		00209331
安装导轨		NS 35	NS 32	NS 35和NS 32
额定绝缘电压(V)		630	500	630
额定电压(V)		690	550	690
	带桥接	176		690
额定电流(A)		27		41
	带FB桥接	27.5		37.5
	带FBI桥接	28.5		39.5
	带FB 150桥接	26		-
	带KB(I)桥接	28		-
	接触电阻 (mΩ)	0.37		0.16
额定导线规格 (AWG)	刚性	24-10		24-8
额定导线规格 (AWG)	柔性	24-12		24-10
多组导线额定规格 (AWG)	刚性	24-16		24-16
多组导线额定规格 (AWG)	柔性	24-16		24-16
工作温度		-60℃~+110℃		



型号规格		USLKG 1.5 N	USLKG 5 (-1)		USLKG 10 N (-1)	USLKG 16 N (-1)	USLKG 50 (-IB)	USLKG 95
图号		00207254	00206057		00207467	00207763	00208046	00208048
额定电压 (V)		275	690 (导轨N35)	550 (导轨N32)	690	690	880	880
额定导线 规格 (AWG)	刚性	26-16	24-12		20-6	14-4	6-1/0	4-3/0
额定导线 规格 (AWG)	柔性	26-16	24-12		20-8	12-6	4-1/0	2-3/0
工作温度		-60℃~+110℃						

型号规格		UK 5-TWIN
图号		00263122
额定绝缘电压(V)		250
额定电压(V)		275
额定电流(A)		32
	带FB桥接	27.5
	带KB桥接	28
	带EB桥接	29.5
	接触电阻 (mΩ)	0.34
额定导线规格(AWG)	刚性	24-12
额定导线规格(AWG)	柔性	24-12
多组导线额定规格 (AWG)	刚性	24-16
多组导线额定规格 (AWG)	柔性	24-16
工作温度		-50℃~+110℃
型号规格		MSLKG 5
图号		00263031
额定导线规格(AWG)	刚性	24-12
额定导线规格(AWG)	柔性	24-12
工作温度		-50℃~+110℃



型号规格		UK 2.5 N
图号		00208253
额定绝缘电压(V)		500
额定电压(V)		550
	带FBR桥接和D端板	550
	带FBR桥接	176
额定电流(A)		20.5
	带FBK桥接	20
	接触电阻 (mΩ)	0.34
额定导线规格(AWG)	刚性	24-12
额定导线规格(AWG)	柔性	24-14
工作温度		-60℃~+105℃

型号规格		UKH 70	UHSK/S 2000
图号		00548328	00280476
额定电压(V)		880 (导轨NS 35)	690 (导轨NS 32)
额定电流(A)		180	41
	接触电阻 (mΩ)	0.025	0.3
额定导线规格 (AWG)	刚性	6-000	20-8
额定导线规格 (AWG)	柔性	4-00	20-10
多组导线额定规格 (AWG)	刚性	6-4	20-10
多组导线额定规格 (AWG)	柔性	6-4	20-10
工作温度		-60℃~+110℃	-60℃~+105℃
型号规格		UKH 70-PE/S	-
图号		00865558	
额定导线规格 (AWG)	刚性	6-000	
额定导线规格 (AWG)	柔性	4-00	
工作温度		-60℃~+110℃	



型号规格		USLKG 2.5 N	USLKG 2.5 N-1	USLKG 3	USLKG 3-1
图号		00214137	00214137	00214141	00214141
额定导线规格 (AWG)	刚性	24-12	24-12	24-12	24-12
额定导线规格 (AWG)	柔性	24-14	24-14	24-14	24-14
工作温度		-60℃~+110℃			

型号规格		USLKG 6 N	USLKG 6 N-1	USLKG 35	USLKG 35-1
图号		00214154	00214154	00271146	00271146
额定导线规格 (AWG)	刚性	24-8	24-8	18-1/0	18-1/0
额定导线规格 (AWG)	柔性	24-10	24-10	18-2	18-2
工作温度		-60℃~+110℃			

本证书同时适用于其他生产企业生产的同型号产品，生产企业名称和地址如下表所示：

序号	生产企业名称	生产企业地址
1	Phoenix Feinbau GmbH	Gustavstrasse 3, 58511 Luedenscheid, Germany
2	Phoenix Contact Wielkopolska Sp. z o.o.	ul Celna 5, 64- 300 Nowy Tomyśl, Poland
3	Phoenix Contact Asia-Pacific (Nanjing) Co.,Ltd.	No. 6 Mozhou East Road, Jiangning Nanjing 211111, China
4	Phoenix Contact India Private Limited	Prithla-Dhatir Road, Village Dudhola, Dist. Palwal, Haryana 121102, India
5	ACEL Elektrik Sanayi Ve Ticaret Ltd. Sti.	Ata Mahallesi Serbest Bölge Orkide Caddesi No 13/15, 16600 Bursa; Bursa Serbest Bölgesi A1 – A5, B3-B9; Turkey

### 一、产品安全使用特定条件

证书编号后缀“U”表明产品具有安全使用特殊条件：接线端子为Ex元件，不能单独在爆炸性环境中使用，组成防爆设备时须附加认证。



## 二、产品使用注意事项

1. 组合安装接线端子时，应确认电气间隙和爬电距离符合GB 3836.3-2010的规定。

2. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。

3. 用户在安装、使用和维护接线端子时，须同时严格遵守产品使用说明书和下列标准：

GB 3836.13-2013 爆炸性环境 第13部分：设备的修理、检修、修复和改造

GB/T 3836.15-2017 爆炸性环境 第15部分：电气装置的设计、选型和安装

GB/T 3836.16-2017 爆炸性环境 第16部分：电气装置的检查与维护

GB 50257-2014 电气装置安装工程爆炸和火灾危险环境电气装置施工及验收规范

## 三、制造厂责任

1. 制造厂必须将上述使用注意事项纳入产品的使用说明书中。

2. 制造厂必须严格按照NEPSI认可的文件资料生产。

3. 涉及产品防爆性能和温度的更改和维修，需提交NEPSI重新检验认可。

国家级仪器仪表防爆安全监督检验站

二〇二〇年十月二十二日



# 国家级仪器仪表防爆安全监督检验站

## National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation

(GYJ20.1195U)

(Attachment I)

### Attachment I to GYJ20.1195U

Terminal blocks typed UK series、USLKG series、AGK 10-UKH series、UKH series、MSLKG 5 and UHSK/S 2000, manufactured by Phoenix Contact GmbH & Co. KG has been certified by National Supervision and Inspection Center for Explosion Protection and Safety of Instrumentation (NEPSI), this product accords with following standards:

GB 3836.1-2010 Explosive atmospheres -Part 1: Equipment-General Requirements

GB 3836.3-2010 Explosive atmospheres -Part 3: Equipment protection by increased safety "e"

The Ex marking is Ex eb IIC, the certificate number is GYJ20.1195U.

Type、drawing and rating approved in this certificate as following:

Note: the suffix of product type indicates the color of terminal block, which is irrelevant with explosion-proof performance. (There is no suffix for type in the following table)

Type		UK 10 N	UK 16 N	UK 35(-IB)	UKH 50(-IB)	UKH 95
Drawing		00210749	00210751	00210753	00210755	00210757
Rated insulation voltage(V)		630	630	630	630	800
Rated voltage(V)		690	690	690	690	880
	with bridge FB(I)	690	690	690	690	-
	with bridge EB	690	-	690	-	690
	with bridge KB(I)	-	-	-	-	-
Rated current(A)		53.5	68	118.5	133	216
	with plug-in bridge type FB(I)	51.5	66	118.5	130.5	-
	with plug-in bridge type EB	50	-	105.5	-	177
	with plug-in bridge type KB(I)	-	-	116	-	-



**(GYJ20.1195U)****(Attachment I )**

	Contact resistance (mΩ)	0.12	0.17	0.08	0.1	0.06
Connectable conductor cross section(AWG)	rigid	20-6	14-4	18-1/0	6-1/0	4-3/0
Connectable conductor cross section(AWG)	flexible	20-8	12-6	18-2	4-1/0	2-3/0
Multi-conductor connection(AWG)	rigid	20-12	16-10	18-6	8-6	4-2
Multi-conductor connection(AWG)	flexible	20-12	16-12	18-8	8-6	4-2
Service temperature		-60℃~+110℃				

Type		AGK 10-UKH 50	AGK 10-UKH 95	AGK 10-UKH 150/240
Drawing		00294821	00294821	00380534
Rated insulation voltage(V)		630	800	1000
Rated voltage(V)		690	880	1100
Rated current(A)		57	57	57
	Contact resistance (mΩ)	0.6	0.6	0.7
Connectable conductor cross section(AWG)	rigid	20-8	20-8	20-8
Connectable conductor cross section(AWG)	flexible	20-8	20-8	20-8
Multi-conductor connection(AWG)	rigid	20-10	20-10	20-10
Multi-conductor connection(AWG)	flexible	20-10	20-10	20-10
Service temperature		-60℃~+110℃		

Type		UKH 150	UKH 240
Drawing		00260137	00260139
Rated insulation voltage(V)		1000	1000
Rated voltage(V)		1100	1100



	with bridge EB	880	690
Rated current(A)		256	350
	with bridge EB	195.5	270
	Contact resistance (mΩ)	0.06	0.03
Connectable conductor cross section(AWG)	rigid	2-300	2/0-500
Connectable conductor cross section(AWG)	flexible	1/0-300	2/0-500
Multi-conductor connection(AWG)	rigid	4-1/0	2-3/0
Multi-conductor connection(AWG)	flexible	2-1/0	1/0-3/0
Service temperature		-60°C~+110°C	

Type		UK 1.5 N	UK 3 N
Drawing		00206701	00208482
Assembled on mounting rail		NS 35和NS 32	NS 35和NS 32
Rated insulation voltage(V)		320	630
Rated voltage(V)		352	690
	with bridge	69	176
Rated current(A)		15.5	21.5
	with bridge FBRN	15.5	-
	with bridge FBR	-	18.5
	with bridge EBL	-	20
	Contact resistance (mΩ)	0.45	0.5
Connectable conductor cross section(AWG)	rigid	26-16	24-12
Connectable conductor cross section(AWG)	flexible	26-16	24-14
Multi-conductor connection(AWG)	rigid	26-18	24-16
Multi-conductor connection(AWG)	flexible	26-18	24-16
Service temperature		-60°C~+110°C	



Type		UK 5 N		UK 6 N
Drawing		00208889		00209331
Assembled on mounting rail		NS 35	NS 32	NS 35和NS 32
Rated insulation voltage(V)		630	500	630
Rated voltage(V)		690	550	690
	with bridge	176		690
Rated current(A)		27		41
	with bridge FB	27.5		37.5
	with bridge FBI	28.5		39.5
	with bridge FB 150	26		-
	with bridge KB(I)	28		-
	Contact resistance (mΩ)	0.37		0.16
Connectable conductor cross section(AWG)	rigid	24-10		24-8
Connectable conductor cross section(AWG)	flexible	24-12		24-10
Multi-conductor connection(AWG)	rigid	24-16		24-16
Multi-conductor connection(AWG)	flexible	24-16		24-16
Service temperature		-60℃~+110℃		

Type		USLKG 1.5 N	USLKG 5 (-1)	USLKG 10 N (-1)	USLKG 16 N (-1)	USLKG 50 (-1B)	USLKG 95
Drawing		00207 254	00206 057	00207 467	00207 763	00208 046	00208 048
Rated voltage(V)		275	690 (rail N35) 550 (rail N32)	690	690	880	880
Connectable conductor cross section(AWG)	rigid	26-16	24-12	20-6	14-4	6-1/0	4-3/0
Connectable conductor cross section(AWG)	flexible	26-16	24-12	20-8	12-6	4-1/0	2-3/0
Service temperature		-60℃~+110℃					



Type		UK 5-TWIN
Drawing		00263122
Rated insulation voltage(V)		250
Rated voltage(V)		275
Rated current(A)		32
	with FB	27.5
	with KB	28
	with EB	29.5
	Contact resistance (mΩ)	0.34
Connectable conductor cross section(AWG)	rigid	24-12
Connectable conductor cross section(AWG)	flexible	24-12
Multi-conductor connection(AWG)	rigid	24-16
Multi-conductor connection(AWG)	flexible	24-16
Service temperature		-50℃~+110℃
Type		MSLKG 5
Drawing		00263031
Connectable conductor cross section(AWG)	rigid	24-12
Connectable conductor cross section(AWG)	flexible	24-12
Service temperature		-50℃~+110℃

Type		UK 2.5 N
Drawing		00208253
Rated insulation voltage(V)		500
Rated voltage(V)		550
	With fixed jumper type FBR...-5-EX and cover type D-UK 2.5(-E)	550
	With fixed jumper type FBR...-5-EX	176
Rated current(A)		20.5
	With fixed jumper type FBR...-5-EX	20



	Contact resistance (mΩ)	0.34
Connectable conductor cross section(AWG)	rigid	24-12
Connectable conductor cross section(AWG)	flexible	24-14
Service temperature		-60℃~+105℃

Type		UKH 70	UHSK/S 2000
Drawing		00548328	00280476
Rated voltage(V)		880 (rail NS 35)	690 (rail NS 32)
Rated current(A)		180	41
	Contact resistance (mΩ)	0.025	0.3
Connectable conductor cross section(AWG)	rigid	6-000	20-8
Connectable conductor cross section(AWG)	flexible	4-00	20-10
Multi-conductor connection(AWG)	rigid	6-4	20-10
Multi-conductor connection(AWG)	flexible	6-4	20-10
Service temperature		-60℃~+110℃	-60℃~+105℃
Type		UKH 70-PE/S	-
Drawing		00865558	
Connectable conductor cross section(AWG)	rigid	6-000	
Connectable conductor cross section(AWG)	flexible	4-00	
Service temperature		-60℃~+110℃	



Type		USLKG 2.5 N	USLKG 2.5 N-1	USLKG 3	USLKG 3-1
Drawing		00214137	00214137	00214141	00214141
Connectable conductor cross section (AWG)	rigid	24-12	24-12	24-12	24-12
Connectable conductor cross section (AWG)	flexible	24-14	24-14	24-14	24-14
Service temperature		-60°C~+110°C			

Type		USLKG 6 N	USLKG 6 N-1	USLKG 35	USLKG 35-1
Drawing		00214154	00214154	00271146	00271146
Connectable conductor cross section (AWG)	rigid	24-8	24-8	18-1/0	18-1/0
Connectable conductor cross section (AWG)	flexible	24-10	24-10	18-2	18-2
Service temperature		-60°C~+110°C			

This certificate is applicable to products of the same model from other factories, the name and address of the factories are as following:

No.	name of the factory	address of the factory
1	Phoenix Feinbau GmbH	Gustavstrasse 3, 58511 Luedenscheid, Germany
2	Phoenix Contact Wielkopolska Sp. z o.o.	ul Celna 5, 64- 300 Nowy Tomyśl, Poland
3	Phoenix Contact Asia-Pacific (Nanjing) Co.,Ltd.	No. 6 Mozhou East Road, Jiangning Nanjing 211111, China
4	Phoenix Contact India Private Limited	Prithla-Dhatir Road, Village Dudhola, Dist. Palwal, Haryana 121102, India
5	ACEL Elektrik Sanayi Ve Ticaret Ltd. Sti.	Ata Mahallesi Serbest Bölge Orkide Caddesi No 13/15, 16600 Bursa; Bursa Serbest Bölgesi A1 – A5, B3-B9; Turkey

### 1. Special condition for safe use

Suffix “U” denotes special condition for safe use: The terminal block is an Ex Component, which is not intended to be used alone, and requires additional consideration when incorporated into Ex Equipment.



## **2. Condition for safe use**

2.1 During assembling and installing, the clearance and creepage distance shall satisfy GB 3836.3-2010.

2.2 In order to avoid damage to the product, the user shall not change any parts of the product and the manufacturer shall be consulted when there is any problem during the usage.

2.3 During the installation, using and maintenance, the user shall following the instruction and following standards:

GB3836.13-2013 Explosive atmospheres-Part 13: Equipment repair, overhaul and reclamation

GB/T3836.15-2017 Explosive atmospheres-Part 15: Eletrical installations design, selection and erection

GB/T3836.16-2017 Explosive atmospheres-Part 16: Eletrical installations inspectio and maintenance

GB50257-2014 Code for construction and acceptance of electric device for explosion atmospheres and fire hazard electrical equipment installation engineering

## **3. Manufacturer's Responsibility**

3.1 Special condition for safe use specified above should be included in the instruction manual.

3.2 Manufacturing should be done according to the documentation approved by NEPSI.

3.3 Any modification with influence on the type of protection should be submitted to NEPSI before application.

**National Supervision and Inspection Center  
for Explosion Protection and Safety of Instrumentation**

October 22<sup>th</sup>, 2020