



- (1) **EU-Baumusterprüfbescheinigung**
- (2) Geräte und Schutzsysteme zur bestimmungsgemässen Verwendung in explosionsgefährdeten Bereichen - **Richtlinie 2014/34/EU**
- (3) Prüfbescheinigungsnummer: **SEV 15 ATEX 0108 U**
- (4) Produkt: Reihenklempen, Typen: WKN 35/U, WKN 35/35, WKN 35 SL/U, WKN 70/U, WKN 70 SL/U, WKN 150/U
- (5) Hersteller: Wieland Electric GmbH
- (6) Anschrift: Brennerstrasse 10-14, 96052 Bamberg, Germany
- (7) Die Bauart dieses Produktes sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu dieser Prüfbescheinigung festgelegt.
- (8) Eurofins, benannte Stelle Nr. 1258 nach Artikel 17 der Richtlinie 2014/34/EU des Parlaments der europäischen Gemeinschaften und des Rates vom 26. Februar 2014, bescheinigt die Erfüllung der grundlegenden Sicherheits- und Gesundheitsanforderungen für die Konzeption und den Bau von Produkten zur bestimmungsgemässen Verwendung in explosionsgefährdeten Bereichen gemäss Anhang II der Richtlinie.
Die Ergebnisse der Prüfung sind im vertraulichen Prüfbericht 22CH-01224.X04 festgehalten.
- (9) Die grundlegenden Sicherheits- und Gesundheitsanforderungen werden erfüllt durch Übereinstimmung mit:
- EN IEC 60079-0:2018**
EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018
- Ausgenommen sind die Bedingungen welche unter Punkt 18 aufgeführt sind.
- (10) Falls «X» hinter der Bescheinigungsnummer steht, wird auf besondere Bedingungen für die sichere Anwendung des Produktes in der Anlage zu dieser Bescheinigung hingewiesen. Falls «U» hinter der Bescheinigungsnummer steht, sind die zertifizierten Geräte oder Schutzsysteme unvollständig. Solche Teilzertifizierungen können als Basis für Geräte- oder Schutzsystem-Zertifizierungen verwendet werden.
- (11) Diese EU-Baumusterprüfbescheinigung bezieht sich nur auf Konzeption und Bau des festgelegten Produktes. Weitere Anforderungen dieser Richtlinie gelten für die Herstellung und das Inverkehrbringen des Produktes, diese sind jedoch nicht Gegenstand dieser Bescheinigung.
- (12) Die Kennzeichnung des Produktes muss die folgenden Angaben enthalten:



II 2G 2D Ex eb IIC Gb

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Urban Strebel
Produktzertifizierung



(13)

Anlage

(14)

EU-Baumusterprüfbescheinigung SEV 15 ATEX 0108 U

(15) Beschreibung des Produktes

Die Reihenklemmen und Schutzleiterklemmen der WKN-Reihe bestehen aus einem Isolierstoffgehäuse (PA 66/6), das mit einer oder mehreren Stromschienen und Schraubklemmstellen für den Einsatz in Gehäusen der Zündschutzart Ex "e" (in Gasatmosphären) oder Ex "t" (in Staubatmosphären) ausgestattet ist. Bei Bedarf können zwei oder mehr Pole benachbarter Reihenklemmen mit Überbrückungsverbindern IVBWKN (Brückungsbrücken) verbunden werden, um Gruppen von Klemmen mit gleichem Potential zu bilden. Als Zubehör sind Abdeckungen, Verschlussplatten, Überbrückungsverbinder und Endhalter erhältlich. Diese Reihenklemmen können auf Normtragschienen nach IEC/EN 60715-TH 35 (NS 35) montiert werden.

Installations- und Gebrauchsart:	stationär
Schutzart:	N/A
Umgebungstemperatur (°C):	N/A
Umgebungstemperatur für Ex-Komponenten (°C):	-40 °C ≤ Tamb ≤ +80 °C

(16) Prüfbericht

22CH-01224.X04

(17) „Besondere Bedingungen“ / „Einschränkungen“

- Die Reihenklemmen der WKN-Serie sind in Gehäusen zu installieren, die den Anforderungen der Normen EN IEC 60079-0 und EN 60079-7 (für Gasatmosphären) entsprechen. Für brennbaren Staub
- müssen die Gehäuse den Anforderungen gemäß EN IEC 60079-0 und EN 60079-31 entsprechen.
 - Beim Einbau der Reihenklemmen sind die Luft- und Kriechstrecken gemäß der Norm EN 60079-7 zu beachten, sowie reduzierte Stromstärken bei der Montage mehrerer Reihenklemmen, entsprechend der in den Unterabschnitten 5.7, 6.8 und Anhang E erläuterten Bemessung des Gehäuses.
 - Betriebstemperaturbereich: -40 °C ... +80 °C.
 - Bei Verwendung von Leitern mit Querschnitten kleiner als der Nennquerschnitt ist der zugehörige niedrigere Strom in der EU-Baumusterprüfbescheinigung des vollständigen Gerätes festzulegen.

(18) Grundlegende Sicherheits- und Gesundheitsanforderungen

Zusätzlich zu den grundlegenden Sicherheits- und Gesundheitsanforderungen, welche durch die unter Punkt 9 aufgeführten Normen erfüllt sind, sind noch folgende im Testbericht überprüften Bedingungen relevant:

Paragraph	Thema
Keine	

(19) Zeichnungen und Dokumente

Siehe Testbericht „Hersteller Dokumente“



Technische Daten:

Typ:	Einheit	WKN 35/U	WKN 35/35	WKN 70/U	WKN 150/U	WKN 35 SL/U	WKN 70 SL/U
a) Strom	[A]	125	125	192	309	---	---
a) Strom mit Überbrückungsbrücke (Kurzschluss zur nächsten Klemme)	[A]	110	110	192	309	---	---
Bypass-Brücke	Type	IVB WKN 35 - 2 to IVB WKN 35 - 12	IVB WKN 35 - 2 to IVB WKN 35 - 12	IVB WKN 70 - 2 to IVB WKN 70 - 6	IVB WKN 150 - 2 to IVB WKN 150 - 6	---	---
b) Nennspannung	[V]	690	690	690	690	---	---
b) Bemessungsspannung mit Überbrückungsklemmen IVBWKF (Überbrückungsbrücken)	[V]	690	690	690	690	---	---
c) Bemessungsspannung bei Unterschieden in der Baugruppe	[V]	690	690	690	690	---	---
c) Abisolierlänge	[mm]	18	18	24	30	20	24
d) Erforderliches Drehmoment	[Nm]	3	3	6	10		
d) Montage wie angegeben	Type	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).
e) Querschnittsfläche Starr	[mm ²]	10 ... 50	10 ... 50	16 ... 95	35 ... 185	10 ... 50	16 ... 95
e) Querschnittsfläche Flexibel	[mm ²]	10 ... 35	10 ... 35	10 ... 70	35 ... 150	10 ... 35	10 ... 70
f) Mindestgrenztemperatur der Isolierung	[°C]	120	120	120	120	120	120
f) Betriebstemperaturbereich	[°C]	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80
g) Temperaturanstieg bei 110% Nennstrom	[K]	36	36	40	40	---	---
g) Temperaturanstieg bei 110 % Nennstrom mit Überbrückungsstecker	[K]	28	28	40	38.3	---	---
h) Durchgangswiderstand an der Klemme bei Nennleiterquerschnitt	[mΩ]	< 0.13	< 0.13	< 0.08	< 0.05	< 0.13	< 0.08





(1)

EU-Type Examination Certificate

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 15 ATEX 0108 U**
- (4) Product: Terminal blocks, Types: WKN 35/U, WKN 35/35, WKN 35 SL/U, WKN 70/U, WKN 70 SL/U, WKN 150/U
- (5) Manufacturer: Wieland Electric GmbH
- (6) Address: Brennerstrasse 10-14, 96052 Bamberg, Germany
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 22CH-01224.X04
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018
EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018

Except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



II 2G 2D Ex eb IIC Gb

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Urban Strebel
Product Certification



(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 15 ATEX 0108 U**(15) General product information**

The terminal blocks and protective conductor terminal blocks of the WKN series consists of an insulating housing (PA 66/6) which is equipped with a current bar or bars, screw-type clamping units to be used in terminal compartments of the Ex "e" type of protection (in gas atmospheres) or Ex "t" type of protection (in dust atmospheres)

When needed, two or more poles of adjacent terminal blocks can be connected with bridging connectors IVBWKN (jumper bridges) to build groups of terminals with the same potential.

Accessories are covers, closing plates, bridging connectors and end brackets. These terminal blocks can be mounted on standard support rails according to IEC/EN 60715-TH 35 (NS 35).

Classification of installation and use:	Fixed
Ingress protection:	N/A
Rated ambient temperature range (°C):	N/A
Rated ambient temperature range (°C) for Ex Components:	-40 °C ≤ Tamb ≤ +80 °C

(16) Report number

22CH-01224.X04

(17) "Special conditions for safe use" / "Schedule of limitations"

- The terminal blocks of the WKN series are to be installed in enclosures that meet the requirements of the standards EN IEC 60079-0 and EN 60079-7 (for gas atmospheres). For combustible dust, enclosures shall comply with the requirements of EN IEC 60079-0 and EN 60079-31.
- When installing the terminal blocks, clearances and creepage distances according to the standard IEC 60079-7 must be observed, as well as reduced current ratings when multiple terminals are installed, according to the rating of the enclosure explained in sub-clauses 5.7, 6.8 and Annex E.
- Service temperature range: -40 °C ... +80 °C.
- When using conductors with cross-sections smaller than the nominal cross-section, the associated lower current shall be specified in the EU type-examination certificate of the complete apparatus.

(18) Essential health and safety requirements

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) Drawings and Documents

See test report "Manufacturer's Documents"



Rating technical data

Type:	Unit	WKN 35/U	WKN 35/35	WKN 70/U	WKN 150/U	WKN 35 SL/U	WKN 70 SL/U
a) Current	[A]	125	125	192	309	---	---
a) Current with bypassing bridge (Short circuit to the next terminal)	[A]	110	110	192	309	---	---
bypassing bridge	Type	IVB WKN 35 - 2 to IVB WKN 35 - 12	IVB WKN 35 - 2 to IVB WKN 35 - 12	IVB WKN 70 - 2 to IVB WKN 70 - 6	IVB WKN 150 - 2 to IVB WKN 150 - 6	---	---
b) Rated voltage	[V]	690	690	690	690	---	---
b) Rated voltage with bridging connectors IVBWKF (jumper bridges)	[V]	690	690	690	690	---	---
c) Rated voltage of differences of assembly	[V]	690	690	690	690	---	---
c) Stripping length	[mm]	18	18	24	30	20	24
d) required torque	[Nm]	3	3	6	10		
d) Assembly as stated	Type	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).
e) Cross section area Rigid	[mm²]	10 ... 50	10 ... 50	16 ... 95	35 ... 185	10 ... 50	16 ... 95
e) Cross section area Flexible	[mm²]	10 ... 35	10 ... 35	10 ... 70	35 ... 150	10 ... 35	10 ... 70
f) Minimum limiting temperature of insulation	[°C]	120	120	120	120	120	120
f) Operating temperature range	[°C]	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80
g) temperature rise when carrying 110% rated current	[K]	36	36	40	40	---	---
g) temperature rise when carrying 110% rated current with bridging connector	[K]	28	28	40	38.3	---	---
h) Contact resistance across the terminal with rated conductor cross-section	[mΩ]	< 0.13	< 0.13	< 0.08	< 0.05	< 0.13	< 0.08





IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com Ex COMPONENT CERTIFICATE

Certificate No.: IECEx SEV 15.0002U

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Certificate history:

Status: Current

Issue No: 3

Issue 2 (2023-03-24)

Issue 1 (2016-11-23)

Issue 0 (2015-02-27)

Date of Issue: 2024-04-10

Applicant: Wieland Electric GmbH
Brennerstrasse 10-14
96052 Bamberg
Germany

Ex Component: Terminal blocks

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: e

Marking: Ex eb IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Urban Strebel

Position:

Manager Product Certification

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppenstrasse 3
8320 FEHRALTORF
Switzerland



E&E



IECEX Certificate of Conformity

Certificate No.: IECEX SEV 15.0002U

Page 2 of 4

Date of issue: 2024-04-10

Issue No: 3

Manufacturer: Wieland Electric GmbH
Brennerstrasse 10-14
96052 Bamberg
Germany

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition: 5.1

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CH/SEV/ExTR15.0002/03](#)

Quality Assessment Report:

[NL/DEK/QAR12.0047/06](#)



IECEx Certificate of Conformity

Certificate No.: IECEx SEV 15.0002U

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Date of issue: 2024-04-10

Issue No: 3

Ex Component(s) covered by this certificate is described below:

Terminal blocks

WKN 35/U, WKN 35/35, WKN 35 SL/U, WKN 70/U, WKN 70 SL/U, WKN 150/U

The terminal blocks and protective conductor terminal blocks of the WKN series consists of an insulating housing (PA 66/6) which is equipped with a current bar or bars, screw-type clamping units to be used in terminal compartments of the Ex "e" type of protection (in gas atmospheres) or Ex "t" type of protection (in dust atmospheres)

When needed, two or more poles of adjacent terminal blocks can be connected with bridging connectors IVBWKN (jumper bridges) to build groups of terminals with the same potential.

Accessories are covers, closing plates, bridging connectors and end brackets. These terminal blocks can be mounted on standard support rails according to IEC/EN 60715-TH 35 (NS 35).

SCHEDULE OF LIMITATIONS:

- The terminal blocks of the WKN series are to be installed in enclosures that meet the requirements of the standards IEC 60079-0 and IEC 60079-7 (for gas atmospheres). For combustible dust, enclosures shall comply with the requirements of IEC 60079-0 and IEC 60079-31.
- When installing the terminal blocks, clearances and creepage distances according to the standard IEC 60079-7 must be observed, as well as reduced current ratings when multiple terminals are installed, according to the rating of the enclosure explained in sub-clauses 5.7, 6.8 and Annex E.
- Service temperature range: -40 °C ... +80 °C.
- When using conductors with cross-sections smaller than the nominal cross-section, the associated lower current shall be specified in the CoC certificate of the complete apparatus.



IECEX Certificate of Conformity

Certificate No.: IECEx SEV 15.0002U

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Date of issue: 2024-04-10

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Correction of Marking Gb

Annex:

[IECEX SEV 15.0002U Annex Issue 3.pdf](#)

Annexe to: IECEx SEV 15.0002U

Issue No.: 3
page 1 of 1

Applicant Name: Wieland Electric GmbH

Equipment: Terminal blocks

Rating technical data

Type:	Unit	WKN 35/U	WKN 35/35	WKN 70/U	WKN 150/U	WKN 35 SL/U	WKN 70 SL/U
a) Current	[A]	125	125	192	309	---	---
a) Current with bypassing bridge (Short circuit to the next terminal)	[A]	110	110	192	309	---	---
bypassing bridge	Type	IVB WKN 35 – 2 to IVB WKN 35 - 12	IVB WKN 35 – 2 to IVB WKN 35 - 12	IVB WKN 70 – 2 to IVB WKN 70 - 6	IVB WKN 150 – 2 to IVB WKN 150 - 6	---	---
b) Rated voltage	[V]	690	690	690	690	---	---
b) Rated voltage with bridging connectors IVBWKF (jumper bridges)	[V]	690	690	690	690	---	---
c) Rated voltage of differences of assembly	[V]	690	690	690	690	---	---
c) Stripping length	[mm]	18	18	24	30	20	24
d) required torque	[Nm]	3	3	6	10		
d) Assembly as stated	Type	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).
e) Cross section area Rigid	[mm ²]	10 ... 50	10 ... 50	16 ... 95	35 ... 185	10 ... 50	16 ... 95
e) Cross section area Flexible	[mm ²]	10 ... 35	10 ... 35	10 ... 70	35 ... 150	10 ... 35	10 ... 70
f) Minimum limiting temperature of insulation	[°C]	120	120	120	120	120	120
f) Operating temperature range	[°C]	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80
g) temperature rise when carrying 110% rated current	[K]	36	36	40	40	---	---
g) temperature rise when carrying 110% rated current with bridging connector	[K]	28	28	40	38.3	---	---
h) Contact resistance across the terminal with rated conductor cross-section	[mΩ]	< 0.13	< 0.13	< 0.08	< 0.05	< 0.13	< 0.08

OPERATING INSTRUCTIONS & CONDITIONS FOR SAFE USE

 II 2G 2D
 Ex eb IIC Gb

Modular TERMINAL Blocks: WKN..-series

Label print on package unit: 0344
 SEV 15 ATEX 0108 U
 (see product marking)

Standards:

EN IEC 60079-0:2018, EN 60079-7:2015 and EN IEC 60079-7:2015/A1:2018

Modular Terminal Blocks: WKN ..	Type	Partnumber
	WKN 35/U	57.535.0155.X
	WKN 35/35	56.535.0155.X
	WKN 70/U	57.570.0155.X
	WKN 150/U	57.597.0155.X

X = 0...9 (for colors)

Protective Terminal Blocks: WKN..SL	Type	Partnumber
	WKN 35 SL	57.535.9055.0
	WKN 70 SL	57.570.9055.0

Accessories:	Type	Partnumber
Partition	TWN 35	07.311.7855.0
	TWN 70	07.311.7955.0
Cover	AD VB 35 (single*)	04.326.2553.8
	AD VB 16/4 (multiple)	04.343.5256.8
	AD VB 70 (single*)	04.326.2653.8
	AD VB 24/4 (multiple)	04.343.5356.8
	AD VB 28/4 (multiple)	04.343.5456.8

* = Single cover with marking facility

End clamp	9708/2 S 35	Z5.522.8553.0
	WE 1 /U (U-foot)	Z5.523.5753.0
	WE 2 /U (U-foot)	Z5.523.5653.0
Terminal rail	TS 35/... acc.to DIN EN 60715	

Cross-connection with screws	Type	Partnumber
35mm ²	IVB WKN 35-2 up to ..-12	Z7.285.2027.0 - ...3227.0
70mm ²	VB WKN 70-2 up to ..-6	Z7.286.3227.0 - ...3627.0
150mm ²	VB WKN 150-2 up to ..-3	Z7.287.1227.0 - ...1327.0



Insulation material:

- Type
- Creepage resistance (acc. to IEC 60112)
- Flammability class (acc. to UL 94)
- Service temperature range
- Ambient temperature range (for T6 applications)

Polyamid
CTI ≥ 600
V0
-40°C...+80°C
-40°C...+40°C

Technical data according to EN 60079-7 (increased safety "eb")**Electrical data**

Note: in this description [,] is used as decimal separator

Terminal blocks**Protective Conductor
Terminal Block****Type**

- Rated voltage
- Rated current
- Rated current with IVB WKN
- Contact resistance
with rated conductor, 35 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- cross section, American Wire Gauge
- Stripping length
- Required torque

WKN 35/U

690 V
125 A / $\Delta T \leq 36$ K
110 A / $\Delta T \leq 28$ K
< 0,13 mΩ
35 mm²
10 – 50mm²
10 – 35mm²
10 – 2 AWG
18 mm
3,0 Nm

WKN 35 SL

< 0,13 mΩ
35 mm²
10 – 50 mm²
10 – 35mm²
10 – 2 AWG
18 mm
3,0 Nm

WKN 35/35

- Rated voltage
- Rated current
- Rated current with IVB WKN
- Contact resistance
with rated conductor, 35 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- cross section, American Wire Gauge
- Stripping length
- Required torque

690 V
125 A / $\Delta T \leq 36$ K
110 A / $\Delta T \leq 28$ K
< 0,13 mΩ
35 mm²
10 – 50mm²
10 – 35mm²
10 – 2 AWG
18 mm
3,0 Nm

**Terminal blocks****Protective Conductor
Terminal Block****WKN 70/U****WKN 70 SL**

- Rated voltage
- Rated current
- Rated current with IVB WKN
- Contact resistance
with rated conductor, 35 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- cross section, American Wire Gauge
- Stripping length
- Required torque

690 V
192 A / $\Delta T \leq 40$ K
192 A / $\Delta T \leq 40$ K
< 0,08 m Ω

< 0,08 m Ω

70 mm²
16 – 95mm²
10 – 70mm²
6 – 2/0 AWG
24 mm
6,0 Nm

70 mm²
16 – 95 mm²
10 – 70mm²
6 – 2/0 AWG
24 mm
6,0 Nm

WKN 150/U

- Rated voltage
- Rated current
- Rated current with IVB WKN
- Contact resistance
with rated conductor, 35 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- cross section, American Wire Gauge
- Stripping length
- Required torque

690 V
309 A / $\Delta T \leq 40$ K
309 A / $\Delta T \leq 38,3$ K
< 0,05 m Ω

150 mm²
35 – 185mm²
35 – 150mm²
2/0 – 350 AWG/kcmil
30 mm
10,0 Nm

**DEUTSCH:****Durchgangs- und Schutzleiterklemmen mit Schraubanschluss für den Einsatz in explosionsgefährdeten Bereichen**

Die Klemmen sind zum Anschließen und Verbinden von Kupferleitern in Anschlussräumen der Zündschutzarten „eb“, „ec“, bzw. „nA“ vorgesehen.

Montagehinweise:

Die WKN...-Serie ist für den Einsatz in Gehäusen in Atmosphären mit brennbaren Gasen oder brennbarem Staub geeignet. Für den Einsatz in brennbaren Gasen müssen die Gehäuse den Anforderungen nach IEC/EN 60079-0 und IEC/EN 60079-7 erfüllen. Für den Einsatz in brennbarem Staub müssen diese Gehäuse die Anforderungen nach IEC/EN 60079-0 und IEC/EN 60079-31 erfüllen.

In Kombination mit anderen Reihenklemmenserien und -größen sowie bei Verwendung von Zubehör sind die Angaben im Herstellerkatalog einzuhalten, um die geltenden Kriech- und Luftstrecken zu gewährleisten.

Liste der Beschränkungen:

Unter normalen Betriebs- oder Servicebedingungen beträgt die Erwärmung der Klemmen maximal 40 K, gemessen beim maximal zulässigen Nennstrom. Aus diesem Grund dürfen die Klemmen in Geräten der Temperaturklassen T6...T1 eingesetzt werden, solange der Umgebungstemperaturbereich der Klemmen nicht überschritten wird: - 40°C ... +80°C

Bei Verwendung der Typen WKN...-Serie mit anderen Klemmenreihen oder -größen oder Zubehörteilen sind die Anforderungen an Luft- und Kriechstrecken nach IEC/EN60079-7 zu beachten. Bei der Verwendung von Abdeckungen, Querverbindern und Endhaltern sind die Anweisungen des Herstellers zu beachten.

Für Querverbindungszubehör sind die Nennströme und die Widerstände an den Klemmen in der Tabelle unter "Technische Daten" angegeben.

Es dürfen keine anderen Drahtgrößen oder -typen als die in der Anleitung angegebenen verwendet werden. Die Reihenklemmen müssen entweder neben einer anderen Reihenklemme desselben Typs und derselben Größe oder mit einer Endplatte montiert werden.

Werden kleinere Leiterquerschnitte als die Bemessungsleiterquerschnitte verwendet, so ist der entsprechend niedrigere Strom in der Bescheinigung für das vollständige Gerät anzugeben

Achtung Sicherheitshinweis!

Von Hand geschnittene Querverbindungen dürfen nicht verwendet werden.

Grundlegende Gesundheits- und Sicherheitsanforderungen:

In Bezug auf die ESRs wird in dieser Liste nur die Einhaltung des Anhangs II der ATEX-Richtlinie und der Verordnung über Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen von 2016 überprüft. Durch das Inverkehrbringen des Produkts erklärt der Hersteller die Einhaltung anderer einschlägiger Richtlinien und aller anderen sicherheitsrelevanten Anforderungen, einschließlich derjenigen in Anhang II dieser Richtlinie.

**ENGLISH:****Feed-through and protective conductor terminal blocks with screw connection for use in potentially explosive atmospheres.**

The terminals are intended for terminate and connect copper conductors in areas of protection types "eb", "ec" or "nA".

Mounting instructions:

The WKN...-Series is suitable for application in enclosures in atmospheres with flammable gases or combustible dust. The enclosures must satisfy the requirements according to IEC/EN 60079-0 and IEC/EN 60079-7 for use in flammable gases. The enclosures must satisfy the requirements according to IEC/EN 60079-0 and IEC/EN 60079-31 for use in combustible dust.

Terminal block series and sizes in combination as well as when using accessories, the instructions in the manufacturer's catalogue shall be met to ensure the applicable creepage distances and clearances.

Schedule of Limitations:

The temperature rise of the terminal blocks is maximum 40 K, measured at the maximum permitted rated current under normal operating or service conditions. Due to the above mentioned, the terminal blocks may be used in apparatus of temperature classes T6..T1 as long as the terminal block ambient temperature range is not exceeded the service temperature range: - 40°C ... +80°C

The requirements for clearance and creepages distances according to IEC/EN60079-7 must be observed when using the types WKN...-series with other terminal blocks series or sizes or accessories. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

The current ratings and the resistances across the terminals for cross connection accessories are given in table "Technical data".

No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.

If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus.

Caution safety note!

- Manually cut cross connections shall not be used.

Essential Health and Safety Requirements:

Concerning ESRs this Schedule verifies compliance with the Annex II of ATEX directive and Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.