



- (1) **EU-Baumusterprüfbescheinigung**
- (2) Geräte und Schutzsysteme zur bestimmungsgemässen Verwendung in explosionsgefährdeten Bereichen - **Richtlinie 2014/34/EU**
- (3) Prüfbescheinigungsnummer: **SEV 14 ATEX 0124 U**
- (4) Produkt: Reihenklempen, Typen: WT 2,5 bis WT 16 WT; 2,5 PE bis WT 16 PE
- (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-01222.X05 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 14 ATEX 0124 U

(15) Beschreibung des Produktes

Die Reihenklemmen und Schutzleiterklemmen der WT-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 IVBWK (Brückungsbrücken) verbunden werden, um Gruppen von Klemmen mit gleichem Potential zu bilden. Zubehör sind Abdeckungen, Verschlussplatten, Überbrückungsverbinder und Endhalter. 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-01222.X05

(17) „Besondere Bedingungen“ / „Einschränkungen“

- Die Klemmen der Serie WT 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.
- Bei der Installation der Klemmenblöcke sind die Luft- und Kriechstrecken gemäß der Norm EN 60079-7 zu beachten, sowie reduzierte Nennströme bei der Installation mehrerer Klemmen, entsprechend der in den Unterabschnitten 5.7, 6.8 und Anhang E erläuterten Gehäuseleistung.
- Betriebstemperaturbereich: -40 °C ... +80 °C.
- Wenn die Brücken nicht vom Hersteller bearbeitet wurden, muss sichergestellt werden, dass die Zeichnungsvorgaben des Herstellers eingehalten werden. Bei unsachgemäßer Ausführung besteht die Gefahr von Funkenbildung durch zu geringe Abstände.
- Bei Verwendung der speziellen Kurzschlussbrücken sind die maximalen Spannungen begrenzt. Siehe dazu die Tabellen.
- 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

Type:	Unit	WT 2,5	WT 4	WT 4 E	WT 4 E VB	WT 4 D1/2	WT 4 D2/2
a) Strom	[A]	24	32	32	32	32	32
a) Strom mit Überbrückungssteckern IVBWKF (Überbrückungsbrücken)	[A]	24	32	32	32	32	32
Überbrückungsstecker	Type	IVBWKF 2,5 - 2 to IVBWKF 2,5 - 20	IVBWKF 4 - 2 to IVBWKF 4 - 10	IVBWKF 4 - 2 to IVBWKF 4 - 10	IVBWKF 4 - 2 to IVBWKF 4 - 10	IVBWKF 4 - 2 to IVBWKF 4 - 10	IVBWKF 4 - 2 to IVBWKF 4 - 10
b) Bemessungsspannung	[V]	690	690	550	550	550	440
b) Bemessungsspannung mit Überbrückungsverbindern IVBWKF (Überbrückungsbrücken)	[V]	690	690	550	550	550	440
b) Bemessungsspannung für von Wieland gelieferte Kurzschlussbrücken der Bauform E (nicht zulässig über PE-Klemmen)	[V]	690	690	---	---	---	---
b) Bemessungsspannung für die von Wieland gelieferten Kurzschlussbrücken Typ D, G und H. Zulässig über PE-Klemmen	[V]	400	400	---	---	---	---
c) Bemessungsspannung der Montageunterschiede	[V]	690	690	550	550	550	440
c) Abisolierlänge	[mm]	9	9	9	9	9	9
d) Erforderliches Drehmoment	[Nm]	0.4	0.5	0.5	0.5	0.5	0.5
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 Solide	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6
e) Querschnittsfläche Feindrähtig	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6
e) Querschnittsfläche Flexibel (feindrähtig) mit Aderendhülse (Endhülse)	[mm ²]	0.5 ... 2.5	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4
f) Mindest-Grenztemperatur 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]	38	35	35	40	37	34
h) Durchgangswiderstand an der Klemme bei Nennleiterquerschnitt	[mΩ]	< 0.67	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5



Technische Daten

Type:	Unit	WT 2,5 PE	WT 4 PE	WT 4 E PE	WT 4 D1/2 PE	WT 4 D2/2 PE	---
a) Strom	[A]	---	---	---	---	---	---
a) Strom mit Überbrückungssteckern IVBWK (Überbrückungsbrücken)	[A]	---	---	---	---	---	---
Überbrückungsstecker	Type	(PE)	(PE)	(PE)	(PE)	(PE)	---
b) Bemessungsspannung	[V]	---	---	---	---	---	---
b) Bemessungsspannung mit Überbrückungsverbindern IVBWK (Überbrückungsbrücken)	[V]	---	---	---	---	---	---
c) Bemessungsspannung der Montageunterschiede	[V]	---	---	---	---	---	---
c) Abisolierlänge	[mm]	9	9	9	9	9	---
d) Erforderliches Drehmoment	[Nm]	0.4	0.5	0.5	0.5	0.5	---
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).	---
e) Querschnittsfläche Solide	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	---
e) Querschnittsfläche Feindrähtig	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	---
e) Querschnittsfläche Flexibel (feindrähtig) mit Aderendhülse (Endhülse)	[mm ²]	0.5 ... 2.5	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4	---
f) Mindest-Grenztemperatur der Isolierung	[°C]	120	120	120	120	120	---
f) Betriebstemperaturbereich	[°C]	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	---
g) Temperaturanstieg bei 110% Nennstrom	[K]	---	---	---	---	---	---
h) Durchgangswiderstand an der Klemme bei Nennleiterquerschnitt	[mΩ]	< 0.67	< 0.5	< 0.5	< 0.5	< 0.5	---



Technische Daten

Type:	Unit	WT 6	WT 10	WT 16	WT 6 PE	WT 10 PE	WT 16 PE
a) Strom	[A]	41	57	76	—	—	—
a) Strom mit Überbrückungssteckern IVBWK (Überbrückungsbrücken)	[A]	41	57	76	---	---	---
Überbrückungsstecker	Type	IVBWK 6 - 2 to IVBWK 6 - 5	IVBWK 10 - 2	IVBWK 16 - 2	(PE)	(PE)	(PE)
b) Bemessungsspannung	[V]	550	690	690	---	---	---
b) Bemessungsspannung mit Überbrückungsverbindern IVBWK (Überbrückungsbrücken)	[V]	550	690	690	---	---	---
b) Bemessungsspannung für Kurzschlussbrücken der Bauart E von Wieland	[V]	550	—	---	---	---	---
b) Bemessungsspannung für von Wieland gelieferte Kurzschlussbrücken der Bauform D und H (nicht zulässig über PE-Klemmen)	[V]	200	---	---	---	---	---
b) Bemessungsspannung für von Wieland gelieferte Kurzschlussbrücken Typ G. Zulässig über PE-Klemmen	[V]	125	---	---	---	---	---
c) Bemessungsspannung der Montageunterschiede	[V]	550	690	690	—	—	—
c) Abisolierlänge	[mm]	11	13	15	11	13	15
d) Erforderliches Drehmoment	[Nm]	1.2	1.2	2	1.2	1.2	2
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 Solide	[mm ²]	0.2 ... 10	0.5 ... 16	1.5 ... 16	0.2 ... 10	0.5 ... 16	1.5 ... 16
e) Querschnittsfläche Feindrähtig	[mm ²]	0.2 ... 10	0.5 ... 16	4 ... 25	0.2 ... 10	0.5 ... 16	4 ... 25
e) Querschnittsfläche Flexibel (feindrähtig) mit Aderendhülse (Endhülse)	[mm ²]	0.5 ... 6	0.5 ... 10	1.5 ... 16	0.5 ... 6	0.5 ... 10	1.5 ... 16
f) Mindest-Grenztemperatur 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]	32	33	40	—	---	---
h) Durchgangswiderstand an der Klemme bei Nennleiterquerschnitt	[mΩ]	< 0.39	< 0.28	< 0.21	< 0.39	< 0.28	< 0.21





EU-Type Examination Certificate

- (1)
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 14 ATEX 0124 U**
- (4) Product: Terminal blocks, Types: WT 2,5 to WT 16 WT; 2,5 PE to WT 16 PE
- (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-01222.X05
- (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 14 ATEX 0124 U**(15) General product information**

The terminal blocks and protective conductor terminal blocks of the WT 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 IVBWKf (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: $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$

(16) Report number

22CH-01222.X05

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

- The terminal blocks of the WT 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: $-40^{\circ}\text{C} \dots +80^{\circ}\text{C}$.
- If the bridges have not been worked on by the manufacturer, it must be ensured that the drawing specifications of the manufacturer are adhered to. If these are carried out improperly, there is a risk of sparks because of clearances that are too small.
- When using the special short-circuit bridges, the maximum voltages are limited. See the tables.
- 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	WT 2,5	WT 4	WT 4 E	WT 4 E VB	WT 4 D1/2	WT 4 D2/2
a) Current	[A]	24	32	32	32	32	32
a) Current with bridging connectors IVBWKf (jumper bridges)	[A]	24	32	32	32	32	32
Bridging connector	Type	IVBWKf 2,5 - 2 to IVBWKf 2,5 - 20	IVBWKf 4 - 2 to IVBWKf 4 - 10	IVBWKf 4 - 2 to IVBWKf 4 - 10	IVBWKf 4 - 2 to IVBWKf 4 - 10	IVBWKf 4 - 2 to IVBWKf 4 - 10	IVBWKf 4 - 2 to IVBWKf 4 - 10
b) Rated voltage	[V]	690	690	550	550	550	440
b) Rated voltage with bridging connectors IVBWKf (jumper bridges)	[V]	690	690	550	550	550	440
b) Rated voltage for short-circuit bridges style E delivered by Wieland (not permitted over PE-terminals)	[V]	690	690	---	---	---	---
b) Rated voltage for short-circuit bridges style D, G and H delivered by Wieland. Permitted over PE-terminals	[V]	400	400	---	---	---	---
c) Rated voltage of differences of assembly	[V]	690	690	550	550	550	440
c) Stripping length	[mm]	9	9	9	9	9	9
d) required torque	[Nm]	0.4	0.5	0.5	0.5	0.5	0.5
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 Solid	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6
e) Cross section area Fine stranded	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6
e) Cross section area Flexible (fine-wired) with ferrules (end sleeve)	[mm ²]	0.5 ... 2.5	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4
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]	38	35	35	40	37	34
h) Contact resistance across the terminal with rated conductor cross-section	[mΩ]	< 0.67	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5



Rating technical data

Type:	Unit	WT 2,5 PE	WT 4 PE	WT 4 E PE	WT 4 D1/2 PE	WT 4 D2/2 PE	---
a) Current	[A]	---	---	---	---	---	---
a) Current with bridging connectors IVBWK (jumper bridges)	[A]	---	---	---	---	---	---
Bridging connector	Type	(PE)	(PE)	(PE)	(PE)	(PE)	---
b) Rated voltage	[V]	---	---	---	---	---	---
b) Rated voltage with bridging connectors IVBWK (jumper bridges)	[V]	---	---	---	---	---	---
c) Rated voltage of differences of assembly	[V]	---	---	---	---	---	---
c) Stripping length	[mm]	9	9	9	9	9	---
d) required torque	[Nm]	0.4	0.5	0.5	0.5	0.5	---
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).	---
e) Cross section area Solid	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	---
e) Cross section area Fine stranded	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	---
e) Cross section area Flexible (fine-wired) with ferrules (end sleeve)	[mm ²]	0.5 ... 2.5	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4	---
f) Minimum limiting temperature of insulation	[°C]	120	120	120	120	120	---
f) Operating temperature range	[°C]	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	---
g) temperature rise when carrying 110% rated current	[K]	---	---	---	---	---	---
h) Contact resistance across the terminal with rated conductor cross-section	[mΩ]	< 0.67	< 0.5	< 0.5	< 0.5	< 0.5	---



Rating technical data

Type:	Unit	WT 6	WT 10	WT 16	WT 6 PE	WT 10 PE	WT 16 PE
a) Current	[A]	41	57	76	—	—	—
a) Current with bridging connectors IVBWK (jumper bridges)	[A]	41	57	76	—	—	—
Bridging connector	Type	IVBWK 6 - 2 to IVBWK 6 - 5	IVBWK 10 - 2	IVBWK 16 - 2	(PE)	(PE)	(PE)
b) Rated voltage	[V]	550	690	690	—	—	—
b) Rated voltage with bridging connectors IVBWK (jumper bridges)	[V]	550	690	690	—	—	—
b) Rated voltage for short-circuit bridges style E delivered by Wieland	[V]	550	—	—	—	—	—
b) Rated voltage for short-circuit bridges style D and H delivered by Wieland (not permitted over PE-terminals)	[V]	200	—	—	—	—	—
b) Rated voltage for short-circuit bridges style G delivered by Wieland. Permitted over PE-terminals	[V]	125	—	—	—	—	—
c) Rated voltage of different of assembly	[V]	550	690	690	—	—	—
c) Stripping length	[mm]	11	13	15	11	13	15
d) required torque	[Nm]	1.2	1.2	2	1.2	1.2	2
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 Solid	[mm ²]	0.2 ... 10	0.5 ... 16	1.5 ... 16	0.2 ... 10	0.5 ... 16	1.5 ... 16
e) Cross section area Fine stranded	[mm ²]	0.2 ... 10	0.5 ... 16	4 ... 25	0.2 ... 10	0.5 ... 16	4 ... 25
e) Cross section area Flexible (fine-wired) with ferrules (end sleeve)	[mm ²]	0.5 ... 6	0.5 ... 10	1.5 ... 16	0.5 ... 6	0.5 ... 10	1.5 ... 16
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]	32	33	40	—	—	—
h) Contact resistance across the terminal with rated conductor cross-section	[mΩ]	< 0.39	< 0.28	< 0.21	< 0.39	< 0.28	< 0.21





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 14.0004U

Page 1 of 5

Certificate history:

Status: Current

Issue No: 5

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Issue 1 (2016-11-23)

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

Ex Component: Terminal Blocks, Types: WT 2,5 to WT 16; WT 2,5 PE to WT 16 PE

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 14.0004U

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Date of issue: 2024-04-10

Issue No: 5

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/ExTR14.0005/04

Quality Assessment Report:

NL/DEK/QAR12.0047/06



IECEx Certificate of Conformity

Certificate No.: IECEx SEV 14.0004U

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Date of issue: 2024-04-10

Issue No: 5

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

Terminal blocks

WT 2,5 to WT 16

WT 2,5 PE to WT 16 PE

The terminal blocks and protective conductor terminal blocks of the WT 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 IVBWK (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 WT 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.
- If the bridges have not been worked on by the manufacturer, it must be ensured that the drawing
- specifications of the manufacturer are adhered to. If these are carried out improperly, there is a risk of sparks because of clearances that are too small.
- When using the special short-circuit bridges, the maximum voltages are limited. See the tables.
- 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.



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Date of issue: 2024-04-10

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Correction of Marking Gb



IECEX Certificate of Conformity

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Issue No: 5

Additional information:
See Annexe

Annex:

[IECEX SEV 14.0004U Annex Issue 5.pdf](#)

Annexe to: IECEx SEV 14.0004U

Issue No.: 5

page 1 of 4

Applicant Name: Wieland Electric GmbH

Equipment: Terminal Blocks

Rating technical data

Type:	Unit	WT 2,5	WT 4	WT 4 E	WT 4 E VB	WT 4 D1/2	WT 4 D2/2
a) Current	[A]	24	32	32	32	32	32
a) Current with bridging connectors IVBWK (jumper bridges)	[A]	24	32	32	32	32	32
Bridging connector	Type	IVBWK 2,5 - 2 to IVBWK 2,5 - 20	IVBWK 4 - 2 to IVBWK 4 - 10	IVBWK 4 - 2 to IVBWK 4 - 10	IVBWK 4 - 2 to IVBWK 4 - 10	IVBWK 4 - 2 to IVBWK 4 - 10	IVBWK 4 - 2 to IVBWK 4 - 10
b) Rated voltage	[V]	690	690	550	550	550	440
b) Rated voltage with bridging connectors IVBWK (jumper bridges)	[V]	690	690	550	550	550	440
b) Rated voltage for short-circuit bridges style E delivered by Wieland (not permitted over PE-terminals)	[V]	690	690	---	---	---	---
b) Rated voltage for short-circuit bridges style D, G and H delivered by Wieland. Permitted over PE-terminals	[V]	400	400	---	---	---	---
c) Rated voltage of differences of assembly	[V]	690	690	550	550	550	440
c) Stripping length	[mm]	9	9	9	9	9	9
d) required torque	[Nm]	0.4	0.5	0.5	0.5	0.5	0.5
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).

Annexe to:
IECEX SEV 14.0004U
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e) Cross section area Solid	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6
e) Cross section area Fine stranded	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6
e) Cross section area Flexible (fine-wired) with ferrules (end sleeve)	[mm ²]	0.5 ... 2.5	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4

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]	38	35	35	40	37	34
--	-----	----	----	----	----	----	----

h) Contact resistance across the terminal with rated conductor cross-section	[mΩ]	< 0.67	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
--	------	--------	-------	-------	-------	-------	-------

Rating technical data

Type:	Unit	WT 2,5 PE	WT 4 PE	WT 4 E PE	WT 4 D1/2 PE	WT 4 D2/2 PE	---
-------	------	-----------	---------	-----------	--------------	--------------	-----

a) Current	[A]	---	---	---	---	---	---
a) Current with bridging connectors IVBWKF (jumper bridges)	[A]	---	---	---	---	---	---
Bridging connector	Type	(PE)	(PE)	(PE)	(PE)	(PE)	---

b) Rated voltage	[V]	---	---	---	---	---	---
b) Rated voltage with bridging connectors IVBWKF (jumper bridges)	[V]	---	---	---	---	---	---

c) Rated voltage of differences of assembly	[V]	---	---	---	---	---	---
c) Stripping length	[mm]	9	9	9	9	9	---

d) required torque	[Nm]	0.4	0.5	0.5	0.5	0.5	—
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).	—

e) Cross section area Solid	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	---
e) Cross section area Fine stranded	[mm ²]	0.14 ... 4	0.14 ... 6	0.14 ... 6	0.14 ... 6	0.14 ... 6	---
e) Cross section area Flexible (fine-wired) with ferrules (end sleeve)	[mm ²]	0.5 ... 2.5	0.5 ... 4	0.5 ... 4	0.5 ... 4	0.5 ... 4	---

f) Minimum limiting temperature of insulation	[°C]	120	120	120	120	120	---
f) Operating temperature range	[°C]	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	-40 ... +80	---

g) temperature rise when carrying 110% rated current	[K]	---	---	---	---	---	---
---	-----	-----	-----	-----	-----	-----	-----

h) Contact resistance across the terminal with rated conductor cross-section	[mΩ]	< 0.67	< 0.5	< 0.5	< 0.5	< 0.5	---
--	------	--------	-------	-------	-------	-------	-----

Rating technical data

Type:	Unit	WT 6	WT 10	WT 16	WT 6 PE	WT 10 PE	WT 16 PE
a) Current	[A]	41	57	76	---	---	---
a) Current with bridging connectors IVBWKf (jumper bridges)	[A]	41	57	76	---	---	---
Bridging connector	Type	IVBWKf 6 - 2 to IVBWKf 6 - 5	IVBWKf 10 - 2	IVBWKf 16 - 2	(PE)	(PE)	(PE)

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IECEX SEV 14.0004U

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b) Rated voltage	[V]	550	690	690	---	---	---
b) Rated voltage with bridging connectors IVBWK (jumper bridges)	[V]	550	690	690	---	---	---
b) Rated voltage for short-circuit bridges style E delivered by Wieland	[V]	550	---	---	---	---	---
b) Rated voltage for short-circuit bridges style D and H delivered by Wieland (not permitted over PE-terminals)	[V]	200	---	---	---	---	---
b) Rated voltage for short-circuit bridges style G delivered by Wieland. Permitted over PE-terminals	[V]	125	---	---	---	---	---

c) Rated voltage of different of assembly	[V]	550	690	690	---	---	---
c) Stripping length	[mm]	11	13	15	11	13	15

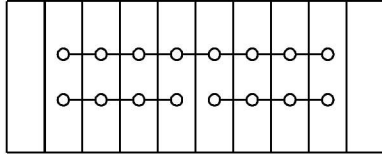
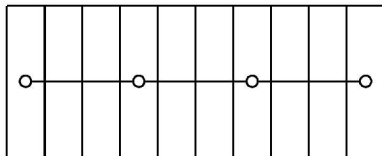
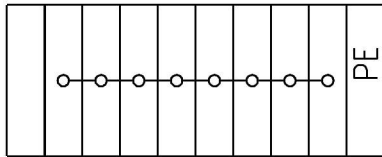
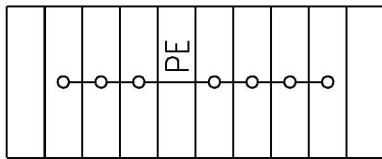
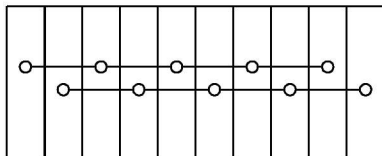
d) required torque	[Nm]	1.2	1.2	2	1.2	1.2	2
d) Assembly as stated	Type	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).	IEC/EN 60715-TH 35 (NS 35).

e) Cross section area Solid	[mm ²]	0.2 ... 10	0.5 ... 16	1.5 ... 16	0.2 ... 10	0.5 ... 16	1.5 ... 16
e) Cross section area Fine stranded	[mm ²]	0.2 ... 10	0.5 ... 16	4 ... 25	0.2 ... 10	0.5 ... 16	4 ... 25
e) Cross section area Flexible (fine-wired) with ferrules (end sleeve)	[mm ²]	0.5 ... 6	0.5 ... 10	1.5 ... 16	0.5 ... 6	0.5 ... 10	1.5 ... 16

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]	32	33	40	---	---	---
--	-----	----	----	----	-----	-----	-----

h) Contact resistance across the terminal with rated conductor cross-section	[mΩ]	< 0.39	< 0.28	< 0.21	< 0.39	< 0.28	< 0.21
--	------	--------	--------	--------	--------	--------	--------

		3			
		Nennspannung rated voltage			
		WT 2,5	WT 4	WT 6	
A					
Durchgehend verbunden Continuously connected		690V	690V	550V	
					
B					
Überspringend verbunden Jumpering unconnected terminals		400V	400V	200V	
					
C					
Querverbinder neben PE-Klemme, ohne Zwischenplatte Cross connector next to PE terminal without end plate		690V	690V	550V	
					
D					
Überspringend verbunden, über PE-Klemme Jumpering unconnected terminals PE termina		400V	400V	125V	
					
E					
2 parallele Querverbinder 2 cross connector in parallel		400V	400V	-	
					



INSTALLATION INSTRUCTIONS & CONDITIONS FOR SAFE USE

II 2G 2D
 Ex eb IIC Gb

Modular TERMINAL Blocks: WT 2,5...- ..16 (PE) Serie

Label print on package unit: 0344
 SEV 14ATEX0124 U
 (see product identification)

Standards:

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

Modular Terminal Blocks: WT..

Type
 WT 2,5
 WT 4
 WT 4 E
 WT 4 E VB
 WT 4 D1/2
 WT 4 D2/2
 WT 6
 WT 10
 WT 16

Order-Nr.
 58.503.0055.X
 58.504.0055.X
 58.504.7055.X
 58.504.6955.1
 58.504.5055.X
 58.504.5155.X
 58.506.0055.X
 58.510.0055.X
 58.516.0055.X

X = 0...9 (for colours)

Protective Terminal Blocks: WT..PE

Type
 WT 2,5 PE
 WT 4 PE
 WT 4 E PE
 WT 4 D1/2 PE
 WT 4 D2/2 PE
 WT 6 PE
 WT 10 PE
 WT 16 PE

Order-Nr.
 58.503.9055.0
 58.504.9055.0
 58.504.9255.0
 58.504.9355.0
 58.504.9155.0
 58.506.9055.0
 58.510.9055.0
 58.516.9055.0

Accessories:

End plate

Type
 AP WT 2,5-10
 AP WT 16

Order-Nr.
 07.313.2555.0
 07.313.2755.0

End bracket

WEF 1/35, ..2/35 (snap in)
 9708/2 S 35 (Screw fastening)
 WE 1/U (Screw fastening)

Z5.523.9453.0/..9353.0
 Z5.522.8553.0
 Z5.523.5753.0

Terminal rail

TS 35/... acc. DIN EN 60715



Cross-connection	Pluggable	Order-Nr.
2.5mm ²	IVB WKF 2,5 – 2 bis ..20	Z7.280.6227.0 - ...8027.0
4.0mm ²	IVB WKF 4 - 2 bis ..10	Z7.261.1227.0 - ...2027.0
6.0mm ²	IVB WKF 6 - 2 bis ..10	Z7.282.5227.0 - ...6027.0
10.0mm ²	IVB WKF 10 - 2	Z7.283.8227.0
16.0mm ²	IVB WKF 16 - 2	Z7.284.4227.0

Insulating material:

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

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

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

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

Terminal blocks
**Protective Conductor
Terminal Block**
Type
WT 2,5
WT 2,5 PE

- Rated voltage
- Rated current
- Rated current with IVB WKF
- Contact resistance
with rated conductor, 2,5 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- Conductor cross section flexible with ferrule
- cross section, American Wire Gauge
- Stripping length
- Required torque

690 V
 24 A / $\Delta T \leq 38$ K
 24 A / $\Delta T \leq 38$ K
 < 0,67 mΩ
 2,5 mm²
 0,14 – 4,0mm²
 0,14 – 4,0mm²
 0,5 – 2,5 mm²
 26 – 12 AWG
 9 mm
 0,4 Nm

< 0,67 mΩ
 2,5 mm²
 0,14 – 4,0 mm²
 0,14 – 4,0mm²
 0,5 – 2,5 mm²
 26 – 12 AWG
 9 mm
 0,4 Nm

WT 4
WT 4 PE

- Rated voltage
- Rated current
- Rated current with IVB WKF
- Contact resistance
with rated conductor, 4,0 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- Conductor cross section flexible with ferrule
- cross section, American Wire Gauge
- Stripping length
- Required torque

690 V
 32 A / $\Delta T \leq 35$ K
 32 A / $\Delta T \leq 35$ K
 < 0,5 mΩ
 4,0 mm²
 0,14 – 6,0mm²
 0,14 – 6,0mm²
 0,5 – 4,0 mm²
 26 – 10 AWG
 9 mm
 0,5 Nm

< 0,5 mΩ
 4,0 mm²
 0,14 – 6,0 mm²
 0,14 – 6,0mm²
 0,5 – 4,0 mm²
 26 – 10 AWG
 9 mm
 0,5 Nm



- Rated voltage
- Rated current
- Rated current with IVB WKF
- Contact resistance
with rated conductor, 4,0 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- Conductor cross section flexible with ferrule
- cross section, American Wire Gauge
- Stripping length
- Required torque

WT 4 E (VB)

550 V
 32 A / $\Delta T \leq 35$ (40) K
 32 A / $\Delta T \leq 35$ (40) K
 < 0,5 mΩ
 4,0 mm²
 0,14 – 6,0mm²
 0,14 – 6,0mm²
 0,5 – 4,0 mm²
 26 – 10 AWG
 9 mm
 0,5 Nm

WT 4 E PE

< 0,5 mΩ
 4,0 mm²
 0,14 – 6,0 mm²
 0,14 – 6,0mm²
 0,5 – 4,0 mm²
 26 – 10 AWG
 9 mm
 0,5 Nm

- Rated voltage
- Rated current
- Rated current with IVB WKF
- Contact resistance
with rated conductor, 4,0 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- Conductor cross section flexible with ferrule
- cross section, American Wire Gauge
- Stripping length
- Required torque

WT 4 D1/2

550 V
 32 A / $\Delta T \leq 37$ K
 32 A / $\Delta T \leq 37$ K
 < 0,5 mΩ
 4,0 mm²
 0,14 – 6,0mm²
 0,14 – 6,0mm²
 0,5 – 4,0 mm²
 26 – 10 AWG
 9 mm
 0,5 Nm

WT 4 D1/2 PE

< 0,5 mΩ
 4,0 mm²
 0,14 – 6,0 mm²
 0,14 – 6,0mm²
 0,5 – 4,0 mm²
 26 – 10 AWG
 9 mm
 0,5 Nm

- Rated voltage
- Rated current
- Rated current with IVB WKF
- Contact resistance
with rated conductor, 4,0 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- Conductor cross section flexible with ferrule
- cross section, American Wire Gauge
- Stripping length
- Required torque

WT 4 D2/2

440 V
 32 A / $\Delta T \leq 34$ K
 32 A / $\Delta T \leq 34$ K
 < 0,5 mΩ
 4,0 mm²
 0,14 – 6,0mm²
 0,14 – 6,0mm²
 0,5 – 4,0 mm²
 26 – 10 AWG
 9 mm
 0,5 Nm

WT 4 D2/2 PE

< 0,5 mΩ
 4,0 mm²
 0,14 – 6,0 mm²
 0,14 – 6,0mm²
 0,5 – 4,0 mm²
 26 – 10 AWG
 9 mm
 0,5 Nm



- Rated voltage
- Rated current
- Rated current with IVB WKFN
- Contact resistance
with rated conductor, 6,0 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- Conductor cross section flexible with ferrule
- cross section, American Wire Gauge
- Stripping length
- Required torque

WT 6

550 V
 41 A / $\Delta T \leq 32$ K
 41 A / $\Delta T \leq 32$ K
 $< 0,39$ m Ω
 6,0 mm²
 0,2 – 10,0mm²
 0,2 – 10,0mm²
 0,5 – 6,0 mm²
 24 – 8 AWG
 11 mm
 1,2 Nm

WT 6 PE

$< 0,39$ m Ω
 6,0 mm²
 0,2 – 10,0 mm²
 0,2 – 10,0mm²
 0,5 – 6,0 mm²
 24 – 8 AWG
 11 mm
 1,2 Nm

- Rated voltage
- Rated current
- Rated current with IVB WKF
- Contact resistance
with rated conductor, 10,0 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- Conductor cross section flexible with ferrule
- cross section, American Wire Gauge
- Stripping length
- Required torque

WT 10

690 V
 57 A / $\Delta T \leq 33$ K
 57 A / $\Delta T \leq 33$ K
 $< 0,28$ m Ω
 10,0 mm²
 0,5 – 16,0mm²
 0,5 – 16,0mm²
 0,5 – 10,0 mm²
 20 – 6 AWG
 13 mm
 1,2 Nm

WT 10 PE

$< 0,28$ m Ω
 10,0 mm²
 0,5 – 16,0 mm²
 0,5 – 16,0mm²
 0,5 – 10,0 mm²
 20 – 6 AWG
 13 mm
 1,2 Nm

- Rated voltage
- Rated current
- Rated current with IVB WKF
- Contact resistance
with rated conductor, 16,0 mm²
- Rated conductor cross section
- Conductor cross section solid
- Conductor cross section flexible
- Conductor cross section flexible with ferrule
- cross section, American Wire Gauge
- Stripping length
- Required torque

WT 16

690 V
 76 A / $\Delta T \leq 40$ K
 76 A / $\Delta T \leq 40$ K
 $< 0,21$ m Ω
 16,0 mm²
 1,5 – 16,0mm²
 4,0 – 25,0mm²
 1,5 – 16,0 mm²
 16 – 4 AWG
 15 mm
 2,0 Nm

WT 16 PE

$< 0,21$ m Ω
 16,0 mm²
 1,5 – 16,0 mm²
 4,0 – 25,0mm²
 1,5 – 16,0 mm²
 16 – 4 AWG
 15 mm
 2,0 Nm



DEUTSCH:

Durchgangs- und Schutzleiterklemmen mit Zugfederanschluss 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 WT...-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 WT...-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!

- Querverbindungen mit blanken Enden dürfen nicht verwendet werden.
- Manuell ausgeklinkte Pole von Querverbindungen müssen den Abmessungen unter Zeichnung A 2020.000 entsprechen.

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 screwless connection for use in potentially explosive atmospheres.

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

Mounting instructions:

The WT...-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 WT...-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!

- Cross connections with blank ends shall not be used.
- Manually disengaged poles of cross-connections shall comply with the dimensions under drawing A 2020.000.

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.