

### **Terminal block UT**

Article description	UT 6 *
Article no.	3044131 *
EC-TYPE EXAMINATION CERTIFICATE IECEX-CERTIFICATE	KEMA 04ATEX2048 U * IECEx KEM 06.0027 U *
Marking	Ex eb IIC KEMA 04ATEX2048 U IECEx KEM 06.0027 U
Assembly on mounting rails Stripping length Torque	NS 35 acc. to EN 60715-TH 35 10 mm 1,5 - 1,8 Nm
Assembly instructions	See page 2
Operating temperature range	-60 °C +110 °C







# Technical data according to IEC/EN 60079-7 (increased safety "e")

Rated insulation voltage Rated voltage	630 V 690 V	
Nominal current	40 A (ΔT 40 K)	41 A (ΔT 45 K)
Max. rated current	50 A (ΔT 40 K)	53 A (ΔT 45 K)
Temperature rise	33 K (40 A / 6 mm²)	34 K (43,4 A / 6 mm²)
Contact resistance	$0,20~\text{m}\Omega$	
Connection capacity		
Rated cross-section	6 mm <sup>2</sup>	AWG 10
Max. conductor cross-section	10 mm²	AWG 8
Connectable conductor cross-section	0,2 - 10 mm² rigid 0,2 - 6 mm² flexible	AWG 24 - 8 AWG 24 - 10

## Multi-conductor connection (2 conductors of the same cross-section)

Rigid / flexible	0,2 - 2,5 mm <sup>2</sup>	AWG 24 - 14

### Insulation material

ilibulation material		
Description	PA 6.6	
Creep resistance acc. to		
IEC 60112 / material group	CTI 600 / I	

Accessories	Description	Article no.	
Cover	D-UT 2,5-10	3047028	
Patition plate	ATP-UT	3047167	
Jumper	FBS 2-8 FBS 3-8 FBS 4-8 FBS 5-8 FBS 10-8	3030284 3030297 3030307 3030310 3030323	Max. 39 A / 6 mm $^2$ $\Delta$ T 40 K Max. 41 A / 6 mm $^2$ $\Delta$ T 45 K
Reducing bridge	RB UT-6-(2,5/4) RB UT 6-ST(2,5/4)	3047251 3047264	Notes on the application see enclosure

valid for colour variants

#### Important assembly instructions - increased safety "e"

The Terminal Blocks are suitable for use in enclosures in atmospheres with flammable gases or combustible dust. For flammable gases these enclosures must satisfy the requirements according to IEC/EN 60079-0 and IEC/EN 60079-7. For combustible dust these enclosures must satisfy the relevant requirements according to IEC/EN 60079-31.

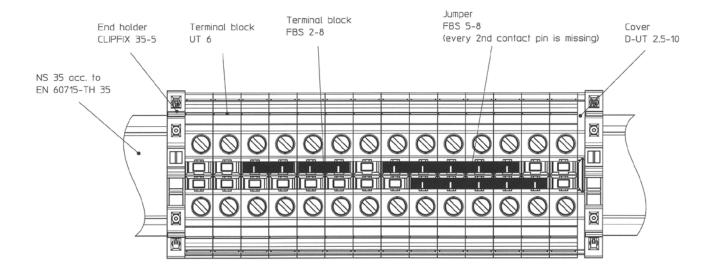
When assembling with other certified series and sizes of terminal blocks and using accessories designed for the purpose, the required creepage distances and clearances have to be observed.

When using the jumpers to achieve a skipped bridging the rated voltage is reduced to 275 V. When using reducing bridges or cut-to-length plug-in bridges data and examples of use have to be observed as enclosure.

If conductors with smaller cross section than the rated cross section are used, the assigned lower current has to be specified in the EC-Type Examination Certificate of the complete apparatus.

The Terminal Blocks may be used, based on the self-heating when used at the nominal current and at ambient temperatures of -60 °C to +40 °C at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature class T6. When the Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T5, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

The Terminal Blocks and their appropriate accessories have to be assembled as specified below.





#### Operational instructions - Intrinsic safety "i"

IEC/EN 60079-14 Clause 12 describes modular terminal blocks as simple apparatus when used in intrinsically-safe circuits. Testing by a notified body and marking is not required. If terminal blocks be identifiable as part of an intrinsically circuit are marked by a colour, the colour used shall be light blue.

Testing for compliance to intrinsically safe requirements including clearance, creepage, and solid insulation distances specified in IEC/EN 60079-0 and IEC/EN 60079-11 have been performed for circuits up to 60 V.

Compliance with distance requirements of IEC/EN 60079-14 Clause 12.2.3 for the connection of separated intrinsically-safe circuit accessories is met. A minimum distance of 50 mm to separate clamping units of intrinsically-safe and non intrinsically-safe circuits is required through the use of a separating plate or similar device.

### **Attestation of Conformity**

The above mentioned product is in line with the provisions of the below marked directive and their modification directive(s):

2014/34/EU ATEX Directive

Compliance with Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012

EN 60079-7:2007

IEC 60079-0:2011 (Ed.6)

IEC 60079-7:2006 (Ed.4)

The conformity with the provisions of the ATEX directive were certified by

Notified Body:

DEKRA Certification B.V.

Address:

Utrechtseweg 310, NL-6812 AR Arnhem, The Netherlands [Ident.-No.: 0344]

Certificate:

(No., Date)

KEMA 04ATEX2048 U, 2012-11-30

Blomberg, 2016-04-20

i A. Gerhard Leßmann **Business Unit Industrial Cabinet** Connectivity Ex-Representative

Ralf Berndt Business Unit Industrial Cabinet Connectivity Vice President

This attestation certifies the conformity with the indicated directive, it does not, however, covenant any characteristics. The instructions for safety and installation have to be observed.

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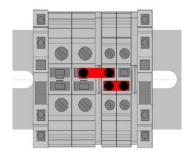
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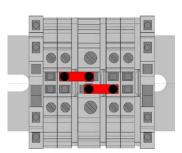
### **Enclosure**

Notes on the application of reducing bridges and cut-to-length plug-in bridges

#### 1. Reducing bridges

Bridging: one-sided two-sided

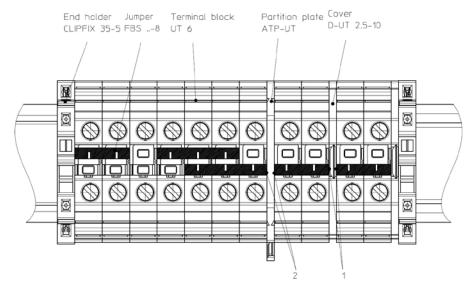




For power supplies, the maximum current carrying capacity of the smallest connected conductors must not be exceeded.

		Max. load current [A] RB UT 6 (2,5/4)			Max. load current [A] RB UT 6-ST(2,5/4)			
UT 6	Т	6	T5 t	o T1	T6		T5 to T1	
	one-sided	two-sided	one-sided	two-sided	one-sided	two-sided	one-sided	two-sided
UT 2,5	32	57	32	57				
UT 4	29	59	31	57				
ST 2,5					30	50	32	55
ST 4					29	59	31	57
DT 2,5					21	47	22	48
QTC 1,5					21	39	17	35
QTC 2,5					25	47	24	48

### 2. Cut-to-length plug-in bridges



Depending on the separating plate between directly facing plug-in bridges, the rated voltages reduces to

- 1) 220V with D-UT 2,5-10
- 2) 275 V with ATP-UT

when using cut-to-length plug-in bridges.

Other combinations as presented are not permissible and therefore not covered by the certificate.

