

**INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE**

II 2 GD

Ex eb IIC Gb

Modular TERMINAL Blocks: BK- Series**TÜV 18 ATEX 8209 U****IECEx TUR 18.0019 U****Notified Body No. of Ex - QA: 0344****Label print on package unit: 0344****TÜV21UKEX7052U****Approved Body No. of UK Ex - QA: 8505****Standards:**

EN 60079-0:2018 and EN 60079-7:2015 A1:2018

IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition

Modular Terminal Blocks: BK

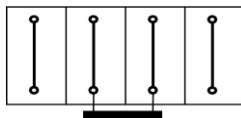
		Order No
Version:	BK 2/E	7906040000
	BK 3/E	7906060000
	BK 4/E	7906080000
	BK 6/E	7906090000
	BK 12/E	7906100000
Cross connection:	QB 2 BK	3833900000

Insulation material:

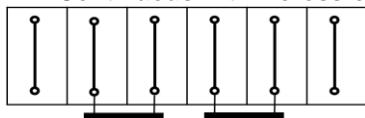
- Type	Melamine (KrG)
- Tracking resistance (A) to IEC 60112	CTI \geq 600
- Operating temperature range	-60°C to +130°C (insulating material limit)
- Ambient temperature range	-60°C...+40°C (for T6 applications)
- Ambient temperature range	-60°C...+55°C (for T5 applications)
- Ambient temperature range	-60°C...+90°C (for T4 applications)

Technical data according to IEC/EN 60079-7 (increased safety "eb"):**BK.../E**

- Rated voltage	275 V
- Rated current	28 A / $\Delta T \leq 40$ K
- Rated current with QB 2 BK	24 A / $\Delta T \leq 40$ K
- Temperature rise with rated current	≤ 40 K / 28 A
- Contact resistance with rated conductor	0,3 m Ω
- Conductor cross section solid	0,5 - 4 mm 2
- Conductor cross section stranded	1,5 - 4 mm 2
- Conductor cross section flexible	0,5 - 4 mm 2
- cross section, American Wire Gauge	22 - 12 AWG
- Tightening torque range, terminal screw	0,5 - 0,7 Nm
- Stripping length	8 mm
- fixing screw according to DIN 7984 and DIN EN ISO 4762	

IECEx / ATEX / UKCA Terminal and Cross-Connection Arrangements:**Max voltage data according to IEC/EN 60079-7 of the BK-Series, (increased safety "eb"):****Application Case****A - Continuous no difference between one or two cross connections**

220 V

B - Continuous with 2 cross-connections

220 V

Note:

If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the IECEx/EC-Type Examination Certificate / UKCA Certificate of the complete apparatus.

Mounting instructions:

The BK-series products are suitable for application in enclosures in atmospheres with flammable gases or combustible dust. For use in flammable gases these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-7. For use in combustible dust these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31.

Regarding the use of accessories the instructions of the manufacturer must be followed.

The multipin terminal strips should be mounted with cylinder head screws according to ISO 4762.

Schedule of Limitations:

The BK-series products 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 DIN/EN60079-0 and DIN/EN60079-7. For combustible dust the enclosure must satisfy the requirements according to DIN/EN60079-0 and DIN/EN60079-31.

The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks. The terminal blocks shall be placed inside a suitable certified IP54 enclosure in type of protection "eb" for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable certified enclosure (DIN/EN60079-31) in type of protection "t".

Under normal operating conditions the temperature rise of the terminal blocks is maximum 40 K, measured at the maximum permitted rated current. 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. No part of terminal block must exceed 130°C under any condition.

Ambient temperature

T6 (- 50°C ... +40 °C)

T5 (- 50°C ... +55 °C)

T4 (- 50°C ... +90 °C)

When using the BK-series products especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances according to DIN/EN60079-7 must be observed.

Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

For cross connection accessories current rating, resistance across the terminal please refer to the table under "technical data" above.

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.

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.

Use cross of connection



Assembly of the external cross connections QB 2 BK:

- QB 2 BK
- wire

Please notice:

When using a cross connection in the clamping unit, the conductor shall be always be connected below the cross connection.

Unused terminals shall be tightened.

Essential Health and Safety Requirements:

Concerning ESRs this Schedule verifies compliance with the Annex II of ATEX / Schedule 1 of UKCA 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 / Schedule 1 of these Directives.