

INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE

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Modular TERMINAL Blocks: A- Series

**TÜV 17 ATEX 8064 U
 IECEx TUR 17.0030 U
 TÜV 21 UKEX 7070 U**

Standards:

EN IEC 60079-0:2018 and EN IEC 60079-7:2015 A1:2018
 IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition

Fuse Terminal Blocks: A2T 4 FS-FT BK

Version:	Type	Order No
	A2T 4 FS-FT BK	2816960000
	A2T 4 FS-FT 10-36V BK	2816970000
	A2T 4 FS-FT 30-70V BK	2816980000
	A2T 4 FS-FT 60-150V BK	2816990000
	A2T 4 FS-FT 100-250V BK	2817000000
Accessories:	Type	Order No
Endplate	AEP 2T4	2540000000
End bracket	AEB 35 SCL/1 V0	2661280000
Terminal rail	TS 35/... acc.to IEC 60715	
Cross-connection	Pluggable	Order No
	ZQV 4N/2*	1527930000
	ZQV 4N/3*	1527940000
	ZQV 4N/4*	1527970000
	ZQV 4N/5*	1527980000
	ZQV 4N/6*	1527990000
	ZQV 4N/7*	1528020000
	ZQV 4N/8*	1528030000
	ZQV 4N/9*	1528070000
	ZQV 4N/10*	1528090000

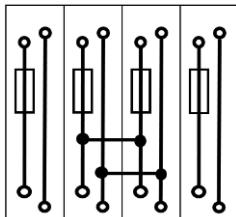
Insulation material:

- Type	Wemid
- Tracking resistance (A) to IEC 60112	CTI \geq 600
- Flammability class to UL 94	V0
- Operating temperature range	-60°C...+130°C (insulating material limit)

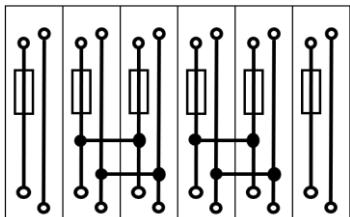
* in all colours

Technical data according to IEC/EN 60079-7 (increased safety "ec"):

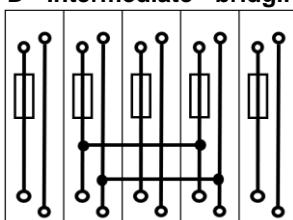
	Rated Voltage	
	Separate arrangement	Compound arrangement
A2T 4 FS-FT BK	250 V	250 V
A2T 4 FS-FT 10-36V	10-36 V	
A2T 4 FS-FT 30-70V	30-70 V	
A2T 4 FS-FT 60-150V	60-150 V	
A2T 4 FS-FT 100-250V	100-250 V	
- Rated current	6.3 A	
- Rated power dissipation Pvk		
Separate arrangement	4 W (6,3 A)	
Compound arrangement	2,5 W (6,3 A)	
- Rated conductor cross section	4 mm ²	
- Conductor cross section solid	0,5 - 6,0 mm ²	
- Conductor cross section flexible	0,5 - 6,0 mm ²	
- Conductor cross section flexible with ferrule	0,5 - 4,0 mm ²	
- Cross section, American Wire Gauge	26 - 12 AWG	
- Stripping length	12 mm	

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

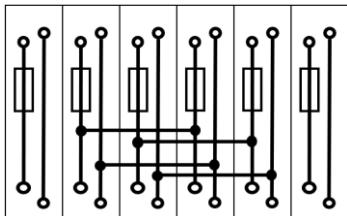
250V

B - Continuous with 2 cross-connections

250V

D - Intermediate - bridging one or more unconnected terminals

250V

H - Cross-connection with twin parallel

250V

Information for further cross-connector arrangements will be provided on request.

CONDITIONS FOR SAFE USE:

This document should be read carefully before starting installation. Respect the information stated on the certification label of the terminal, e.g. Type/s of protection, gas group and temperature class. The installation of these terminals should only be carried out by authorized and qualified personnel whose training has included instruction on the various types of protection and installation practices, the relevant rules and regulations, and on the general principles of area classification.

The fuse holder shall be fully closed all times. Do not remove or replace the fuse when energized.

The fuse link shall not be replaced in the presence of a hazardous area and the associated enclosure shall be marked "Switch off supply and discharge any stored energy safely before removing fuse(s)".

The "stored energy" statement may be replaced by a statement declaring a de-energizing time before opening.

The fuse terminal is safe under the following conditions:

- Use only fuse links according to the Table 1.
- The temperature class must be verified in the final customers specific application.
- T4 based on 130 °C of the insulating material and 85 °C for the fuse carrier.

The informativ temperatures of Table 2 were determined with a nominal current of 100 % according to the IEC 90647-7-3.

The fuse terminal blocks maybe used only for short circuit protecting applications based on the operational self heating at nominal current in combination with the specified fuse links at ambient temperatures according to the following table:

Table 1**Cartridge fuse-links (5 x 20 mm) ****

** only permissible for sandfilled fuse link

**EN 60127-2
Spec. Sheet****Rated current****Breaking capacity**

1	50 mA ... 10 A	1,5 kA
2	32 mA ... 10 A	35 A resp. $10 \times I_N$
3	32 mA ... 10 A	35 A resp. $10 \times I_N$
5	100 mA ... 10 A	1,5 kA
6	32 mA ... 10 A	150 A

Table 2:

A2T 4 FS-FT BK

Short-circuit protection

Temperature class:

T4 (130 °C) T5 (100 °C) T6 (85 °C)

max. ambient temperature (°C)

Cartridge fuse-link		
Separate arrangement:	4 W/ 6,3A	86

51

36

Cartridge fuse-link		
Compound arrangement:	2,5 W/ 6,3A	81

max. ambient temperature (°C)

46

31

Mounting instructions:

The fuse 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 60079-7. For combustible dust these enclosures must satisfy the requirements according to IEC/EN 60079-31. In combination with other terminal block series and sizes and if other accessories are used, the applicable creepage and clearance distances shall be met.

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

Schedule of Limitations:

The fuse 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 requirements according to IEC/EN 60079-31.

In combination with other terminal block series and sizes and if other accessories are used, the applicable creepage and clearance distances shall be met.

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

The terminal blocks shall be placed inside a suitable IECEx/ATEX certified IP54 enclosure for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable IECEx/ATEX certified 't' enclosure (IEC/EN60079-31).

The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks.

WARNING – Do not remove or replace the fuse disconnect switch when energized!

When using the A2T 4 FS-FT BK... terminal blocks with other terminal blocks series or sizes or accessories, the requirements for clearance and creepages distances according to IEC/EN 60079-7 has to 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 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.



- Cross connections with blank ends shall not be used.
- 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 / 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.