

INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE

 II 3 G Ex ec IIC Gc

Modular TERMINAL Blocks: A- Series

TÜV 16 ATEX 7939 U

IECEX TUR 16.0045 U

TÜV 21 UKEX 7066 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

Test - Disconnect Terminal Blocks: A2T 4 DT-FT

Version:	Type	Order No
	A2T 4 DT-FT	2831520000
	A2T 4 DT-FT-PE	2832880000

Accessories:		Order No
End Plate	AEP 2T 4 FS	2540000000
End bracketed	AEB 35 SC/1	1991920000
Terminal rail	TS 35/... acc.to DIN EN 60715	

Cross-connection	Pluggable*	
	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 ≥ 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"):

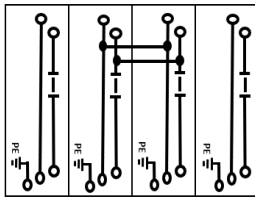
	A2T 4 DT-FT
- Rated voltage	250 V
- Rated current	20 A
- Rated current with ZQV	20 A
- Rated conductor cross section	4 mm ²
- Conductor cross section solid	0,2 - 6,0 mm ²
- Conductor cross section flexible	0,2 - 6,0 mm ²
- Conductor cross section flexible with ferrule	0,5 - 4 mm ²
- cross section, American Wire Gauge	26 - 12 AWG
- Stripping length	12 mm

Service life acc. To IEC 60947-7-1

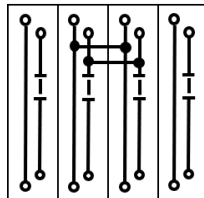
- max. no. Of actuations	50 cycles
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IECEx / ATEX / UKCA Terminal and Cross-Connection Arrangements:

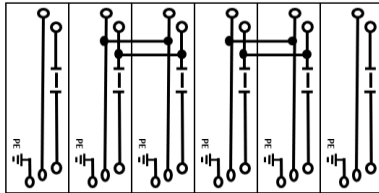
Max voltage data according to IEC/EN 60079-7 (increased safety "ec"):

Application Case**A - Continuous no difference between one or two cross connections**

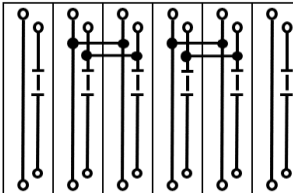
250V



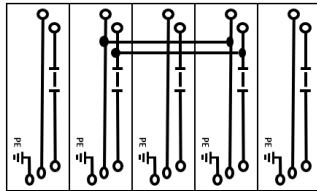
250V

B - Continuous with 2 cross-connections

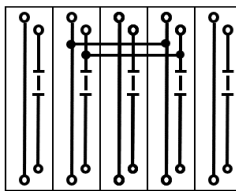
250V



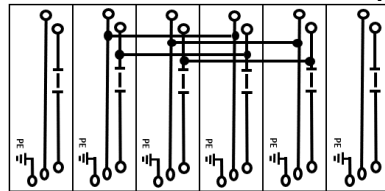
250V

D - Intermediate - bridging one or more unconnected terminals

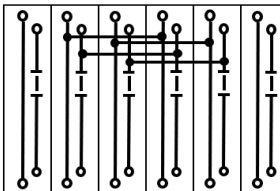
250V



250V

H - Cross-connection with twin parallel

250V



250V

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

Note:

The creepage and clearance distances were determined in the worst case.

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 of the complete apparatus.

Mounting instructions:

The A2T 4 DT-FT... terminal block is suitable for application in enclosures in atmospheres with flammable gases and 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.

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 disconnect terminal block is suitable for use in enclosures in atmospheres with flammable gases and 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.

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

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

Under normal operating conditions the temperature rise of the terminal blocks is max 40 K, measured with the max 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 as shown below. No part of terminal block must exceed 130 °C under any condition.

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

When using the types A2T 4 DT-FT... with other terminal blocks series or sizes or accessories, the requirements for clearance and creepages distances according to IEC/EN 60079-7 must be observed. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

For terminal jumper accessories current ratings and the resistances across the terminals please refer to the table under "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.

A thermal assessment for the classification into the temperature classes T6....T1 shall be performed. No part of terminal block must exceed 130 °C under any condition.

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 max. value of the operating temperature range.



- 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.