

INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE



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: ADT 2.5 4C

Version:	Type	Order No
	ADT 2.5 4C *	1989860000

Accessories:		Order No
End Plate	AEP DT 2.5 4C *	1989980000
End bracket	AEB 35 SC/1	1991920000
Terminal rail	TS 35/... acc.to DIN EN 60715	

Cross-connection	Pluggable	Order No
	ZQV 2.5N/2*	1527540000
	ZQV 2.5N/3*	1527570000
	ZQV 2.5N/4*	1527590000
	ZQV 2.5N/5*	1527620000
	ZQV 2.5N/6*	1527630000
	ZQV 2.5N/7*	1527640000
	ZQV 2.5N/8*	1527670000
	ZQV 2.5N/9*	1527680000
	ZQV 2.5N/10*	1527690000

* in all colours

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 / Ex ec:**ADT 2.5 4C**

- Rated voltage	400 V
- Rated current	18 A
- Contact resistance with rated conductor, 2.5 mm ²	1,5 mΩ
- Rated conductor cross section	2.5 mm ²
- Conductor cross section solid	0,14 - 2,5 mm ²
- Conductor cross section stranded	0,14 - 2,5 mm ²
- Conductor cross section flexible	0,14 - 2,5 mm ²
- Conductor cross section flexible with ferrule	0,14 - 1,5 mm ²
- cross section, American Wire Gauge	28 - 12 AWG
- Stripping length	10 +/- 1 mm

Service life acc. To IEC 60947-7-1

- max. no. Of actuations	50 cycles
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Mounting instructions:

The disconnect terminals of the A-series 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.

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 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.

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

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

When using the types of disconnect terminals especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances of IEC/EN 60079-7 must be maintained. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

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.

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 insulation material of the conductors shall meet the temperature requirements.



- 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.