

INSTALLATION INSTRUCTIONS
& CONDITIONS FOR SAFE USE II 3 G Ex ec IIC Gc**Modular TERMINAL Blocks: A- Series****TÜV 24 ATEX 9181 U**
IECEEx TUR 24.0066 U**Standards:**EN IEC 60079-0:2018 and EN 60079-7:2015, EN IEC 60079-7:2015/A1:2018
IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition**Test-disconnect terminal Blocks: ALDT 4 2C**

Version:	Type	Order No
	ALDT 4 2C*	2898740000
in conjunction with:	AL2C 4 PE	2847740000
Accessories:		Order No
End Plate	ALEP DT 4 2C*	2898890000
End bracket	AEB 35 SC/1*	1991920000
Terminal rail	TS 35/... acc.to DIN EN 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

* in all colours

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)

Technical data according to IEC/EN 60079-7 / Ex ec:**ALDT 4 2C**

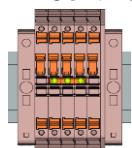
- Rated voltage	550 V
- Rated current	20,5 A / ΔT 40 K
- Rated current with ZQV..	20,5 A / ΔT 40 K
- Contact resistance with rated conductor, 4 mm ²	1,2 mΩ
- Rated conductor cross section	4 mm ²
- Conductor cross section solid	0,5 - 6 mm ²
- Conductor cross section flexible	0,5 - 6 mm ²
- Conductor cross section flexible with ferrule	0,5 - 4 mm ²
- cross section, American Wire Gauge	24 - 10 AWG
- Stripping length	10 +/- 1 mm

Service life acc. To IEC 60947-7-1

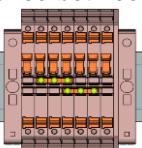
- max. no. Of actuations	25 cycles
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IECEx / ATEX - Terminal and Cross-Connection Arrangements:

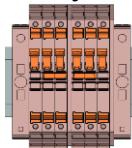
Max voltage data according to IEC/EN 60079-7 in conjunction with protective earth terminal blocks,
(increased safety "ec"):

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

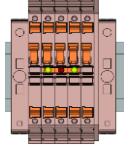
550 V



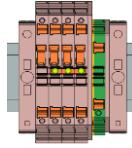
550 V

C - Adjacent – separated by an end plate no difference between one or two cross-connections

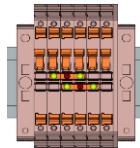
550 V

D - Intermediate - bridging one or more unconnected terminals (e.g. every 3rd terminal) no difference between one or two cross connections

550 V

F - Next to a protective conductor terminal (earth) with end plate

550 V

H - Cross-connection with twin parallel

550 V

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

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 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 III of ATEX directive 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 of this Directive.