INSTALLATION INSTRUCTIONS & CONDITIONS FOR SAFE USE

II 3 G Ex ec IIC Gc

Modular TERMINAL Blocks: A- Series

TÜV 16 ATEX 7940 U
IECEx TUR 16.0046 U

Standards:
EN 60079-0:2012/A11:2013 and EN 60079-7: 2015
IEC 60079-0:2011 IEC 60079-7:2015

Terminal Blocks: APGTB 2.5

Version:	Type	Order No
	APGTB 2.5 FT 3C/1*	1514000000
	APGTB 2.5 PE 3C/1	1513890000
Accessories:		
End Plate	AEP 3C 2.5*	1514430000
End bracket	AEB 35 SC/1	1991920000
Terminal rail	TS 35/… acc.to DIN EN 60715	
in Combination with plugs:	APG 2.5/1*	1513720000
	APG 2.5/2*	1513640000
	APG 2.5/3*	1513650000
	APG 2.5/4*	1513670000
	APG 2.5/5*	1513680000
	APG 2.5/6*	1513690000
	APG 2.5/7*	1513700000
	APG 2.5/8*	1513730000
	APG 2.5/9*	1513740000
	APG 2.5/10*	1513770000
	APG 2.5 L*	1513830000
	APG 2.5 MI*	1513880000
	APG 2.5 R*	1513940000
	APG 2.5/5-3BG-BL-GNYL	1513780000
	APG 2.5/4-3BG-GNYL	1513790000
	APG 2.5/3-BG-BL-GNYL	1513820000
Pluggable cross-connection		
	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
Looking clip		
	ZVR ZP2.5	1816130000
	APGLE 2.5	2457570000

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:

	APGTB 2.5 FT 3C/1	APGTB 2.5 PE 3C/1
- Rated voltage	800 V	
- Rated current	24 A	
- Rated current with ZQV	24 A	
- Contact resistance with rated conductor, 2.5 mm²	1,65 mΩ	1,3 mΩ
- Rated conductor cross section	2.5 mm²	2.5 mm²
- Conductor cross section solid	0,14 - 2,5 mm²	0,14 - 2,5 mm²
- Conductor cross section stranded	0,14 - 2,5 mm²	0,14 - 2,5 mm²
- Conductor cross section flexible	0,14 - 2,5 mm²	0,14 - 2,5 mm²
- Conductor cross section flexible with ferrule	0,14 - 1,5 mm²	0,14 - 1,5 mm²
- cross section, American Wire Gauge	28 - 12 AWG	28 - 12 AWG
- Stripping length	10 mm	10 mm

Service life acc. To IEC 61984

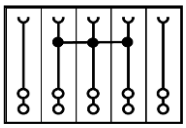
- max. no. Of actuations	25 cycles

IECEx / ATEX Terminal and Cross-Connection Arrangements:

Max voltage data according to IEC/EN 60079-7:

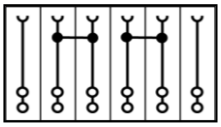
Application Case

A - Continuous no difference between one or two cross connections



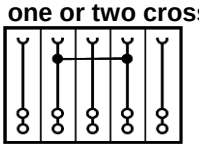
800 V

B - Continuous with 2 cross-connections



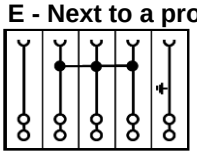
400 V

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



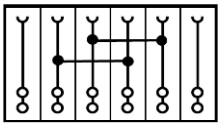
800 V

E - Next to a protective conductor terminal (earth)



230 V

H - Cross-connection with twin parallel



250 V

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

Mounting instructions:

The pluggable 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 pluggable 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 plug when energized!
The plug shall be fasted with the looking clip!

When using the types of pluggable terminals especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances of 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.



Manually cut cross connections and cross connections with blank ends (ZQV´s ≥ 20 poles) shall not be used.