



UK - Type Examination Certificate

- (1)
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **UKSI 2016:1107 (as amended)**

- (3) UK - Type Examination Certificate Number

EPS 21 UKEX 1 313 U

Revision 0

- (4) Component: Terminal block type 07-9721-0*40/****, 07-9721-0*60/****, 07-9721-0*80/****

- (5) Manufacturer: Bartec GmbH

- (6) Address: Max-Eyth-Str. 16
97980 Bad Mergentheim
Germany

- (7) This component and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

- (8) Bureau Veritas Consumer Products Services United Kingdom Limited, approved body No. 8507 in accordance with UKSI 2016:1107 (as amended) Part 4, certifies that this component has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Schedule 1 of UKSI 2016:1107 (as amended). The examination and test results are recorded in the confidential documentation under the reference number 17TH0178.

- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

- (10) The sign "U" placed behind the certificate number indicates that this certificate shall not be confounded with certificates issued for equipment or protective systems. This certificate is valid for a component without an autonomous function in sense of UKSI 2016:1107 (as amended) and does not authorize for the UK-marking to be applied according to regulation 39 (3). This component certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

- (11) This UK - Type Examination Certificate relates only to the design and construction of the specified component in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this component and its placing on the market. Those requirements are not covered by this certificate.

- (12) The marking of the component shall include the following:

 II 2G Ex eb IIC Gb

 I M2 Ex eb I Mb



Certification department of explosion protection

Warrington, 2022-03-17



Ulrich Feike

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services United Kingdom Limited, EPS 21 UKEX 1 313 U, Revision 0.



(13)

Annex

(14) **UK - Type Examination Certificate EPS 21 UKEX 1 313 U**

Revision 0

(15) Description of component:

The terminal block type 07-9721-0*40/****, 07-9721-0*60/**** and 07-9721-0*80/**** allow the removable connection of electrical conductors in explosion hazardous areas. The terminal block will be delivered as 2-pole or 3-pole variants and can be assembled in any order to terminal strips. The clearance and creepage distances of the terminal block allow a direct assembly on metallic base. Each single terminal block can be marked by a snap on marker. The terminal block can be bypassed with a 2- up to 10-pole jumper bar. The terminal block can be also equipped with a rotation stop for base mounting resp. with a locking element for fixing screw.

Type code

Type no.	07	-	9	7	2	1	-	0	*	*	0	/	*	*	*	*				
Key no.	A		B	C	D	E		F	G	H	I		J	K	L	M				

<u>Key</u>	<u>Code number for:</u>	<u>Variations:</u>	<u>Description</u>
A	Basic range	07	ExCo
B	Product range	9	Component
C	Product sector	7	Terminal
D	Rated voltage	2	1000 V
E	Kind of design	1	1 st design
F	Not used	0	Not used
G	Number of independent clamps	2	2
		3	3
H	Rated cross section	4	4 mm ²
		6	16 mm ²
		8	35 mm ²
I	Not used	0	
J - M	Number or letter for characteristics without influence on the explosion protection		

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Revision 0

Rating type 07-9721-0*40/****

Service temperature range	-55 ≤ T ≤ +105°C			
Rated voltage	1000 V			
Rated current	30 A			
Numbers of independent poles	2 up to 3			
Numbers of clamping point each pole	2			
Rated cross sections per clamping point	Design of wire rigid	flexible	flexible with ferrule (without plastic collar)	flexible with ferrule (with plastic collar)
Numbers of wires x cross section range	1 x (0.2 - 4 mm ²)	1 x (0.2 - 4 mm ²)	1 x (0.25 - 4 mm ²)	1 x (0.25 - 2.5
	2 x (0.2 - 1.5 mm ²)	2 x (0.2 - 1.5 mm ²)	2 x (0.25 - 1.5 mm ²)	2 x (0.5 - 1.5 mm ²) with twin ferrule
Rated torque	max. 0.8 Nm			

Rating type 07-9721-0*60/****

Service temperature range	-55 ≤ T ≤ +105°C			
Rated voltage	1000 V			
Rated current	72 A			
Numbers of independent poles	2 up to 3			
Numbers of clamping point each pole	2			
Rated cross sections per clamping point	Design of wire rigid	flexible	flexible with ferrule (without plastic collar)	flexible with ferrule (with plastic collar)
Numbers of wires x cross section range	1 x (0.5 - 16 mm ²)	1 x (0.5 - 10 mm ²)	1 x (0.5 - 10 mm ²)	1 x (0.5 - 10 mm ²)
	2 x (0.5 - 4 mm ²)	2 x (0.5 - 4 mm ²)	2 x (0.5 - 4 mm ²)	2 x (0.5 - 6 mm ²) with twin ferrule
Rated torque	max. 2 Nm			

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Revision 0

Rating type 07-9721-0*80/****

Service temperature range	-55 ≤ T ≤ +105 °C			
Rated voltage	1000 V			
Rated current	120 A			
Numbers of independent poles	2 up to 3			
Numbers of clamping point each pole	2			
Rated cross sections per clamping point	Design of wire rigid	flexible	flexible with ferrule (without plastic collar)	flexible with ferrule (with plastic collar)
Numbers of wires x cross section range	1 x (2.5 - 16 mm ²)	1 x (2.5 - 35 mm ²)	1 x (1.5 - 35 mm ²)	1 x (2.5 - 35 mm ²) 2 x (1.5 - 16 mm ²) with twin ferrule
Rated torque	max. 3.5 Nm			

(16) Reference number: 17TH0178

(17) Notes for manufacture, installation and operation:

- The terminal block shall be mounted in an enclosure that meets the requirements of an approved type of protection in accordance with EN 60079-0, section 1.
- If the terminal block is mounted within an enclosure of Type of Protection Increased Safety "e" according to EN 60079-7 the clearance and creepage distances according section 4.3, section 4.4 and table 2 have to be ensured.
- If the terminal blocks are used with the maximum rated current an additional temperature rise of 40 K has to be considered. The upper service temperature must be reduced accordingly. The temperature measurement must be repeated in the final application.
- The limiting temperature of the insulation is 105 °C.
- For base mounting the rotation stop part no. 05-0010-0004 must be used.
- For type and number of conductors per clamping unit refer to rating tables.
- The resistance across the terminal is
 - ≤ 1.00 mOhm (07-9721-0*40/****; 4 mm²);
 - ≤ 0.42 mOhm (07-9721-0*60/****; 16 mm²);
 - ≤ 0.26 mOhm (07-9721-0*80/****; 35 mm²).

(18) Essential health and safety requirements:

Met by compliance with standards.

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Warrington, 2022-03-17

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