



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX EPS 17.0026U**

Page 1 of 6

Certificate history:
Issue 0 (2017-06-22)

Status: **Current**

Issue No: 1

Date of Issue: 2021-07-22

Applicant: **BARTEC GmbH**
Max-Eyth-Str. 16
97980 Bad Mergentheim
Germany

Ex Component: Terminal block type 07-9721-0*40/****, 07-9721-0*60/****, 07-9721-0*80/****

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **eb**

Marking: Ex eb IIC Gb

Ex eb I Mb

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

2021-07-22



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Certificate No.: **IECEX EPS 17.0026U**

Page 2 of 6

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Manufacturer: **BARTEC GmbH**
Max-Eyth-Str. 16
97980 Bad Mergentheim
Germany

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/EPS/ExTR17.0024/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0017/13](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 17.0026U**

Page 3 of 6

Date of issue: 2021-07-22

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Ex Component(s) covered by this certificate is described below:

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.

SCHEDULE OF LIMITATIONS:

The terminal block shall be mounted in an enclosure that meets the requirements of an approved type of protection in accordance with IEC 60079-0, section 1.

If the terminal block is mounted within an enclosure of Type of Protection Increased Safety "e" according to IEC 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 has to 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 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).



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 17.0026U**

Page 4 of 6

Date of issue: 2021-07-22

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Update of the standards IEC 60079-0 ed. 6 to IEC 60079-0 ed.7 and IEC 60079-7 ed. 5 to 60079-7 ed. 5.1



IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 17.0026U**

Page 5 of 6

Date of issue: 2021-07-22

Issue No: 1

Additional information:

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
		4	4 mm ²
		6	16 mm ²
H	Rated cross section	8	35 mm ²
		0	
I	Not used	0	
J - M	Number or letter for characteristics without influence on the explosion protection		

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 mm ²)
	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			
Dimension (L x B x H)	double pole design		approx. 40 x 35 x 33 mm	
	three pole design		approx. 60 x 35 x 33 mm	
Mass (approx.)	double pole design		49 g	
	three pole design		73 g	

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

Service temperature range	-55 ≤ T ≤ +105°C
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IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 17.0026U**

Page 6 of 6

Date of issue: 2021-07-22

Issue No: 1

Rated voltage	1000 V			
Rated current	72 A			
Numbers of independent poles	2 up to 3			
Numbers of clamping point each pole	2			
	Design of wire			
Rated cross sections per clamping point	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			
Dimension (L x B x H)	double pole design		approx. 40 x 37 x 38 mm	
	three pole design		approx. 60 x 37 x 38 mm	
Mass (approx.)	double pole design		74 g	
	three pole design		110 g	

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			
	Design of wire			
Rated cross sections per clamping point	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			
Dimension (L x B x H)	double pole design		approx. 56 x 55 x 50 mm	
	three pole design		approx. 84 x 55 x 50 mm	
Mass (approx.)	double pole design		200 g	
	three pole design		290 g	