

IECEx Certificate of Conformity

ТМ			
	IEC Certification	ELECTROTECHNICAL COMMISSION n System for Explosive Atmospheres etails of the IECEx Scheme visit www.iecex.com	
Certificate No.:	IECEx TUR 22.0076X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2023-01-23		
Applicant:	SAMCON Prozessleittechnik Gr Schillerstrasse 17 35102 Lohra-Altenvers Germany	mbH	
Equipment:	liteServer® Series T20		
Optional accessory:			
Type of Protection:	db tb		
Marking:	Ex db IIC T6 Gb*		
	Ex db I Mb*		
	Ex tb IIIC T80°C Db IP68*		
	* Optional and additional type of p The mining certification can be can The dust certification can be can The explosion group can be dowr The ambient temperature range c The temperature class/value (gas The marking [op is] cen be added ** See type plate, model key and	ancelled if required. ** celled if requireds. ** ngraded if required. ** can be downgraded if required. ** s/dust) can be downgraded if required. ** I for certified emitters**	
Approved for issue o Certification Body: Position:	n behalf of the IECEx	Christian Mehrhoff Assigned certifier	
Signature: (for printed version) Date: (for printed version)		23-01-2023	
 This certificate and s This certificate is not 	schedule may only be reproduced in full. t transferable and remains the property of the enticity of this certificate may be verified by	he issuing body. / visiting www.iecex.com or use of this QR Code.	

Certificate issued by:

TUV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Cologne Germany





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Date of issue:	2023-01-23	Issue No: 0
Manufacturer:	SAMCON Prozessleittechnik GmbH Schillerstrasse 17 35102 Lohra-Altenvers Germany	
Manufacturing locations:	SAMCON Prozessleittechnik GmbH Schillerstrasse 17 35102 Lohra-Altenvers Germany	
IEC Standard list bel found to comply with	ow and that the manufacturer's quality syste	entative of production, was assessed and tested and found to comply with the em, relating to the Ex products covered by this certificate, was assessed and is certificate is granted subject to the conditions as set out in IECEx Scheme
STANDARDS : The equipment and a to comply with the fo		ne schedule of this certificate and the identified documents, was found
The equipment and a to comply with the fo		
The equipment and a to comply with the for IEC 60079-0:2017 Edition:7.0	llowing standards	ent - General requirements
The equipment and a to comply with the fo IEC 60079-0:2017 Edition:7.0	llowing standards Explosive atmospheres - Part 0: Equipme 6 Explosive atmospheres - Part 1: Equipme	ent - General requirements
The equipment and a to comply with the for the formation of the formation	llowing standards Explosive atmospheres - Part 0: Equipme 6 Explosive atmospheres - Part 1: Equipme Explosive atmospheres - Part 28: Protect	ent - General requirements ent protection by flameproof enclosures "d"

Test Report:

DE/TUR/ExTR22.0076/00

Quality Assessment Report:

DE/BVS/QAR14.0006/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2023-01-23

General product information:

The liteServer® is an electrical device that is protected by a pressure-resistant (Ex d) enclosure. The flameproof housings not only make the device flameproof but also robust for a variety of industries and applications. Within the pressure-resistant enclosure, various light radiation sources (LEDs), lenses, reflectors and power electronics with different technical specifications, are installed. Radiation sources include visible light as well as infrared light (NIR) of different illumination cones and light intensities. Accessory components such as PTC heating elements, lenses, reflectors, diffuser, mechanical components, vibration damper and clamps are optional.

The liteServer® Series covers the following products and models:

liteServer® Ex.micro.... T20-VA0.x...

liteServer® Ex.mini.... T20-VA1.x...

liteServer® Ex.universal.... T20-VA2.x...

liteServer® Ex.power.... T20-VA4.x...

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When installing the liteServer, the requirements of EN/IEC 60079-14 must be applied.

2. All used cable glands and plugs have to be certified.

Annex:

IECEx_TUR_22.0076X_Attachment.pdf



Attachment to Certificate IECEx TUR 22.0076X

Device: Type:	lite Serve T20	r® Series T20 (details refer to technical data section)
Manufacturer:	SAMCON	I Prozessleittechnik GmbH
Address:	Schillers 35102 Lo	traße 17 hra- Altenvers, Germany

General product information:

The liteServer® Series T20 is a pressure-resistant (Ex-d) electrical device.

The marking of the equipment shall include the following:

Ex db IIC T6 Gb*

Ex db I Mb*

Ex tb IIIC T80°C Db IP68*

* Optional and additional type of protection markings for all types:

The mining certification can be cancelled if required. **

The dust certification can be cancelled if requireds. **

The explosion group can be downgraded if required. **

The ambient temperature range can be downgraded if required. **

The temperature class/value (gas/dust) can be downgraded if required. **

The marking [op is] cen be added for certified emitters**

** See type plate, model key and installation-/user manual!

Technical data

Supply Voltage:

Model:	Supply Voltage:
T20-VA:	60V DC / 240V (50/60 Hz) AC



Maximum Input Power:

...for T6 Temperature Class (T_{sur} < 85°C)

			T	amb max
Model:	40°C	50°C	60°C	70°C
T20-VA0.1	10,5 W	7,9W	5,3 W	2,6 W
T20-VA0.4	13,8 W	10,3 W	6,9 W	3,4 W
T20-VA1.1	17,4 W	13,0 W	8,7 W	4,3 W
T20-VA1.2	18,2 W	13,6 W	9,1 W	4,5 W
T20-VA2.0	18,2 W	13,6 W	9,1 W	4,5 W
T20-VA2.1	22,2 W	16,7 W	11,1 W	5,6 W
T20-VA2.2	25,0 W	18,8 W	12,5 W	6,3 W
T20-VA2.3	28,6 W	21,4 W	14,3 W	7,1 W
T20-VA4.1K.BORx	57,1 W	42,9 W	28,6 W	14,3 W
T20-VA4.3.K1.BORx	57,1 W	42,9 W	28,6 W	14,3 W

... for T6 Temperature Class ($T_{sur} < 85^{\circ}C$)

			Ta	mb max
Model:	40°C	50°C	60°C	70°C
T20-VA0.1	10,5 W	7,9W	5,3 W	2,6 W
T20-VA0.4	13,8 W	10,3 W	6,9 W	3,4 W
T20-VA1.1	17,4 W	13,0 W	8,7 W	4,3 W
T20-VA1.2	18,2 W	13,6 W	9,1 W	4,5 W
T20-VA2.0	18,2 W	13,6 W	9,1 W	4,5 W
T20-VA2.1	22,2 W	16,7 W	11,1 W	5,6 W
T20-VA2.2	25,0 W	18,8 W	12,5 W	6,3 W
T20-VA2.3	28,6 W	21,4 W	14,3 W	7,1 W
T20-VA4.1K.BORx	57,1 W	42,9 W	28,6 W	14,3 W
T20-VA4.3.K1.BORx	57,1 W	42,9 W	28,6 W	14,3 W

... for T6 Temperature Class (T_{sur} < 85°C)

			Ta	amb max
Model:	40°C	50°C	60°C	70°C
T20-VA0.1	10,5 W	7,9W	5,3 W	2,6 W
T20-VA0.4	13,8 W	10,3 W	6,9 W	3,4 W
T20-VA1.1	17,4 W	13,0 W	8,7 W	4,3 W
T20-VA1.2	18,2 W	13,6 W	9,1 W	4,5 W
T20-VA2.0	18,2 W	13,6 W	9,1 W	4,5 W
T20-VA2.1	22,2 W	16,7 W	11,1 W	5,6 W
T20-VA2.2	25,0 W	18,8 W	12,5 W	6,3 W
T20-VA2.3	28,6 W	21,4 W	14,3 W	7,1 W
T20-VA4.1K.BORx	57,1 W	42,9 W	28,6 W	14,3 W
T20-VA4.3.K1.BORx	57,1 W	42,9 W	28,6 W	14,3 W



...for T5 Temperature Class (T_{sur} < 100°C)

			4	Tamb max		2
Model:	40°C	50°C	60°C	70°C	80°C	85°C
T20-VA0.1	13,4 W	11,8 W	9,2 W	6,6 W	3,9 W	2,6 W
T20-VA0.4	14,2 W	12,7 W	11,2 W	8,6 W	5,2 W	3,4 W
T20-VA1.1	23,9 W	19,6 W	15,2 W	10,9 W	6,5 W	4,3 W
T20-VA1.2	25,0 W	20,6 W	15,9 W	11,4 W	6,8 W	4,5 W
T20-VA2.0	25,0 W	20,6 W	15,9 W	11,4 W	6,8 W	4,5 W
T20-VA2.1	30,6 W	25,0 W	19,4 W	13,9 W	8,3 W	5,6 W
T20-VA2.2	34,4 W	28,1 W	21,9 W	15,6 W	9,4 W	6,3 W
T20-VA2.3	39,3 W	32,1 W	25,0 W	17,9 W	10,7 W	7,1 W
T20-VA4.1K.BORx	60,0 W	55,0 W	50,0 W	35,7 W	21,4 W	14,3 W
T20-VA4.3.K1.BORx	78,6 W	64,3 W	50,0 W	35,7 W	21,4 W	14,3 W

... for T4 Temperature Class ($T_{sur} < 135^{\circ}C$)

	T _{amb max}					
Model:	50°C	70°C	90°C	100°C	110°C	120°C
T20-VA0.1	12,0 W	9,2 W	6,3 W	4,9 W	3,5 W	2,1 W
T20-VA0.4	12,7 W	9,7 W	6,7 W	5,2 W	3,7 W	2,2 W
T20-VA1.1	34,8 W	26,1 W	17,4 W	13,0 W	8,7 W	4,3 W
T20-VA1.2	36,4 W	27,3 W	18,2 W	13,6 W	9,1 W	4,5 W
T20-VA2.0	36,4 W	27,3 W	18,2 W	13,6 W	9,1 W	4,5 W
T20-VA2.1	44,4 W	33,3 W	22,2 W	16,7 W	11,1 W	5,6 W
T20-VA2.2	50,0 W	37,5 W	25,0 W	16,7 W	12,5 W	6,3 W
T20-VA2.3	57,1 W	42,9 W	28,6 W	21,4 W	14,3 W	7,1 W
T20-VA4.1K.BORx	55,0 W	45,0 W	35,0 W	30,0 W	25,0 W	14,3 W
T20-VA4.3.K1.BORx	114,3 W	85,7 W	57,1 W	42,9 W	28,6 W	14,3 W

...for T3 Temperature Class (T_{sur} < 160°C)

			1	amb max			
Model:	50°C	70°C	90°C	110°C	130°C	140°C	150°C
T20-VA1.1	47,8 W	39,1 W	30,4 W	21,7 W	13,0 W	8,7 W	4,3 W
T20-VA1.2	50,0 W	40,9 W	31,8 W	22,7 W	13,6 W	9,1 W	4,5 W
T20-VA2.0	50,0 W	40,9 W	31,8 W	22,7 W	13,6 W	9,1 W	4,5 W
T20-VA2.1	61,1 W	50,0 W	38,9 W	27,8 W	16,7 W	11,1 W	5,6 W
T20-VA2.2	68,8 W	56,3 W	43,8 W	31,3 W	18,8 W	12,5 W	6,3 W
T20-VA2.3	78,6 W	64,3 W	50,0 W	35,7 W	21,4 W	14,3 W	7,1 W
T20-VA4.3.K1.BORx	157,1 W	128,6 W	100,0 W	71,4 W	42,9 W	28,6 W	14,3 W

Protection degrees:

Model:	Protection degree (EN 60529:2014):
T20-VA:	IP66/IP68 3m / 24h IP69K
	(immersion depth and duration)

Maximum ambient temperature range:

Model:	Maximum ambient temperature range
T20-VA:	$-60^{\circ}C \le T_{amb} \le +xxx^{\circ}C^{**}$

** See power tables above, type plate, model key and installation-/user manual!