



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

Certificate No.: **IECEX UL 16.0169X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 2 [Issue 1 \(2018-11-28\)](#)
[Issue 0 \(2017-03-15\)](#)
Date of Issue: 2022-02-25
Applicant: **Rockwell Automation**
1201 South 2nd Street
Milwaukee, WI 53204
United States of America
Equipment: **Open Type Programmable Controllers, Type 1783-US5T SERIES B, 1783-US8T SERIES B, 1783-US4T1F SERIES B, 1783-US4T1H SERIES B, 1783-US6T2F SERIES B, 1783-US6T2H SERIES B, 1783-US7T1F SERIES B, 1783-US7T1H SERIES B, 1783-US16T SERIES B, 1783-US16T2S SERIES B, 1783-US5TG SERIES B, 1783-US8TG2GX SERIES B, 1783-US6T2TG2F SERIES B, 1783-US6T2TG2H SERIES B**
Optional accessory:
Type of Protection: **Increased Safety "ec"**
Marking: **Ex ec IIC T4 Gc**
1783-US5T SERIES B, 1783-US8T SERIES B:
-10 °C to +60 °C
1783-US4T1F SERIES B, 1783-US4T1H SERIES B, 1783-US6T2F SERIES B, 1783-US6T2H SERIES B, 1783-US7T1F SERIES B, 1783-US7T1H SERIES B, 1783-US16T SERIES B, 1783-US16T2S SERIES B, 1783-US5TG SERIES B, 1783-US8TG2GX SERIES B, 1783-US6T2TG2F SERIES B, 1783-US6T2TG2H SERIES B:
-40 °C to +75 °C

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

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.
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Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Rockwell Automation**
1201 South 2nd Street
Milwaukee, WI 53204
United States of America

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 Reports:

[US/UL/ExTR16.0195/01](#)

[US/UL/ExTR16.0195/02](#)

Quality Assessment Report:

[US/ETL/QAR12.0005/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Open Type Programmable Controllers, Type 1783-US5T SERIES B, 1783-US8T SERIES B, 1783-US4T1F SERIES B, 1783-US4T1H SERIES B, 1783-US6T2F SERIES B, 1783-US6T2H SERIES B, 1783-US7T1F SERIES B, 1783-US7T1H SERIES B, 1783-US16T SERIES B, 1783-US16T2S SERIES B, 1783-US5TG SERIES B, 1783-US8TG2GX SERIES B, 1783-US6T2TG2F SERIES B, 1783-US6T2TG2H SERIES B are open type Industrial Ethernet Switches and Media Converters with communication interfaces and intended for use in industrial applications (as part of PLC system). They are microcomputer based and communicate via interfaces through wire. They are open type devices intended for DIN rail mounting. The models consist of one or two circuit boards that utilize the non-sparking "ec" protection method.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall only be used in an area of not more than pollution degree 2 in accordance with IEC 60664-1.
- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with IEC 60079-0 and accessible only by the use of a tool.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Updates to the marking labels.

Issue 2: Update label drawings and Instruction manual due to update of protection method from Ex nA to Ex ec, and related standards.

Annex:

[Annex to IECEx UL 16.0169X Issue 2.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Rated input voltage - 24Vdc (12-48Vdc); 24Vac (18-30Vac), 50/60 Hz

Model / Series No.	Rated Input Power	Output
1783-US5T SERIES B	3.4W	Signal (Note)
1783-US8T SERIES B	4.6W	
1783-US4T1F SERIES B	3.4W	
1783-US4T1H SERIES B	3.4W	
1783-US6T2F SERIES B	4.6W	
1783-US6T2H SERIES B	4.6W	
1783-US7T1F SERIES B	4.6W	
1783-US7T1H SERIES B	4.6W	
1783-US16T SERIES B	8W	
1783-US16T2S SERIES B	8W	
1783-US5TG SERIES B	4.5W	
1783-US8TG2GX SERIES B	10W	
1783-US6T2TG2F SERIES B	7.5W	
1783-US6T2TG2H SERIES B	7.5W	

Note: "Signal" means it is a signal output rated less than 30 volts. Electrical rating of "Signal" may be marked on the device or in the instruction manual supplied with the equipment.

MARKING

Marking has to be readable and indelible; it has to include the following indications:

Allen-Bradley Stratix[®]2000
Ethernet Unmanaged Switch
Rockwell Automation
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-US4T1F SERIES B

SVXXXXXX

INPUT PWR1: 24V (12-48V) 50-60 Hz
24V (18-30V)

INPUT PWR2: 24V (12-48V) 50-60 Hz
24V (18-30V)

Power (Max): 3.4W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions

PRODUCT OF XXXXX PLANT XXXXXXX XXXX/YYMM

Allen-Bradley Stratix[®]2000
Ethernet Unmanaged Switch
Rockwell Automation
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-US4T1H SERIES B

SVXXXXXX

INPUT PWR1: 24V (12-48V) 50-60 Hz
24V (18-30V)

INPUT PWR2: 24V (12-48V) 50-60 Hz
24V (18-30V)

Power (Max): 3.4W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions

PRODUCT OF XXXXX PLANT XXXXXXX XXXX/YYMM



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Allen-Bradley **Stratix[®] 2000**
 Ethernet Unmanaged Switch
 Rockwell Automation
 1201 S 2nd Street
 Milwaukee, WI 53204 USA

CAT. NO. 1783-US5TG SERIES B



SVXXXXXX

INPUT PWR1: 24V (12.48V)
 24V (18.30V) 50-60 Hz
 INPUT PWR2: 24V (12.48V)
 24V (18.30V) 50-60 Hz
 Power (Max): 4.5W


II 3 G Ex ec IIC T4 Gc
 DEMKO 16 ATEX 1816X
 IECEx UL 16.0169X
 -40 °C ≤ T_{amb} ≤ +75 °C

See Install Instructions

PRODUCT OF XXXXX PLANT XXXXXXXX YYYY/MMDD

Allen-Bradley **Stratix[®] 2000**
 Ethernet Unmanaged Switch
 Rockwell Automation
 1201 S 2nd Street
 Milwaukee, WI 53204 USA

CAT. NO. 1783-US5T SERIES B



SVXXXXXX

INPUT PWR1: 24V (12.48V)
 24V (18.30V) 50-60 Hz
 INPUT PWR2: 24V (12.48V)
 24V (18.30V) 50-60 Hz
 Power (Max): 3.4W

II 3 G Ex ec IIC T4 Gc
 DEMKO 16 ATEX 1816X
 IECEx UL 16.0169X
 -10 °C ≤ T_{amb} ≤ +60 °C

See Install Instructions

PRODUCT OF XXXXX PLANT XXXXXXXX YYYY/MMDD

Allen-Bradley **Stratix[®] 2000**
 Ethernet Unmanaged Switch
 Rockwell Automation
 1201 S 2nd Street
 Milwaukee, WI 53204 USA

CAT. NO. 1783-US6T2F SERIES B



SVXXXXXX

INPUT PWR1: 24V (12.48V)
 24V (18.30V) 50-60 Hz
 INPUT PWR2: 24V (12.48V)
 24V (18.30V) 50-60 Hz
 Power (Max): 4.6W

II 3 G Ex ec IIC T4 Gc
 DEMKO 16 ATEX 1816X
 IECEx UL 16.0169X
 -40 °C ≤ T_{amb} ≤ +75 °C

See Install Instructions

PRODUCT OF XXXXX PLANT XXXXXXXX YYYY/MMDD

Allen-Bradley **Stratix[®] 2000**
 Ethernet Unmanaged Switch
 Rockwell Automation
 1201 S 2nd Street
 Milwaukee, WI 53204 USA

CAT. NO. 1783-US6T2H SERIES B



SVXXXXXX

INPUT PWR1: 24V (12.48V)
 24V (18.30V) 50-60 Hz
 INPUT PWR2: 24V (12.48V)
 24V (18.30V) 50-60 Hz
 Power (Max): 4.6W

II 3 G Ex ec IIC T4 Gc
 DEMKO 16 ATEX 1816X
 IECEx UL 16.0169X
 -40 °C ≤ T_{amb} ≤ +75 °C

See Install Instructions

PRODUCT OF XXXXX PLANT XXXXXXXX YYYY/MMDD



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Allen-Bradley Stratix[®] 2000
Rockwell Automation Ethernet Unmanaged Switch
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-U S6T2G2F SERIES B



SVXXXXXX

INPUT PWR1: 24V (12-48V) 
24V (18-30V)  50-60 Hz

INPUT PWR2: 24V (12-48V) 
24V (18-30V)  50-60 Hz

Power (Max): 7.5W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions 

PRODUCT OF XXXXX PLANT XXXXXXX YYY/MDD

Allen-Bradley Stratix[®] 2000
Rockwell Automation Ethernet Unmanaged Switch
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-U S6T2G2H SERIES B



SVXXXXXX

INPUT PWR1: 24V (12-48V) 
24V (18-30V)  50-60 Hz

INPUT PWR2: 24V (12-48V) 
24V (18-30V)  50-60 Hz

Power (Max): 7.5W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions 

PRODUCT OF XXXXX PLANT XXXXXXX YYY/MDD

Allen-Bradley Stratix[®] 2000
Rockwell Automation Ethernet Unmanaged Switch
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-U S7T1F SERIES B



SVXXXXXX

INPUT PWR1: 24V (12-48V) 
24V (18-30V)  50-60 Hz

INPUT PWR2: 24V (12-48V) 
24V (18-30V)  50-60 Hz

Power (Max): 4.6W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions 

PRODUCT OF XXXXX PLANT XXXXXXX YYY/MDD

Allen-Bradley Stratix[®] 2000
Rockwell Automation Ethernet Unmanaged Switch
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-U S7T1H SERIES B



SVXXXXXX

INPUT PWR1: 24V (12-48V) 
24V (18-30V)  50-60 Hz

INPUT PWR2: 24V (12-48V) 
24V (18-30V)  50-60 Hz

Power (Max): 4.6W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions 

PRODUCT OF XXXXX PLANT XXXXXXX YYY/MDD



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AB Allen-Bradley Stratix® 2000
Ethernet Unmanaged Switch
Rockwell Automation
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-US8TG2GX SERIES B



SVXXXXXX

INPUT PWR1: 24V (12-48V) 
24V (18-30V)  50-60 Hz

INPUT PWR2: 24V (12-48V) 
24V (18-30V)  50-60 Hz

Power (Max): 10W


II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions 



PRODUCT OF XXXXX PLANT XXXXXXX YYYY/MMDD



AB Allen-Bradley Stratix® 2000
Ethernet Unmanaged Switch
Rockwell Automation
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-US8T SERIES B





SVXXXXXX


INPUT PWR1: 24V (12-48V) 
24V (18-30V)  50-60 Hz

INPUT PWR2: 24V (12-48V) 
24V (18-30V)  50-60 Hz

Power (Max): 4.6W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +60°C

See Install Instructions 

PRODUCT OF XXXXX PLANT XXXXXXX YYYY/MMDD

AB Allen-Bradley Stratix® 2000
Ethernet Unmanaged Switch
Rockwell Automation
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-US16T2S SERIES B



SVXXXXXX

INPUT PWR1: 24V (12-48V) 
24V (18-30V)  50-60 Hz

INPUT PWR2: 24V (12-48V) 
24V (18-30V)  50-60 Hz

Power (Max): 8W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions 

PRODUCT OF XXXXX PLANT XXXXXXX YYYY/MMDD

AB Allen-Bradley Stratix® 2000
Ethernet Unmanaged Switch
Rockwell Automation
1201 S 2nd Street
Milwaukee, WI 53204 USA

CAT. NO. 1783-US16T SERIES B



SVXXXXXX

INPUT PWR1: 24V (12-48V) 
24V (18-30V)  50-60 Hz

INPUT PWR2: 24V (12-48V) 
24V (18-30V)  50-60 Hz

Power (Max): 8W

II 3 G Ex ec IIC T4 Gc
DEMKO 16 ATEX 1816X
IECEx UL 16.0169X
-40°C ≤ T_a ≤ +75°C

See Install Instructions 

PRODUCT OF XXXXX PLANT XXXXXXX YYYY/MMDD