



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx UL 16.0151X Issue No: 1 Certificate history:
Status: **Current** Page 1 of 4 Issue No. 1 (2017-03-30)
Date of Issue: **2017-03-30** Issue No. 0 (2016-10-28)
Applicant: **Rockwell Automation/Allen-Bradley**
1201 South 2nd Street
Milwaukee, WI 53204
United States of America
Equipment: **1756 Series Programmable Controllers**
Optional accessory:
Type of Protection: **Non-sparking, "nA"**
Marking:
Ex nA IIC T3 Gc : 1756-IB16D Series A and 1756-IN16 Series A
Ex nA IIC T4 Gc: 1756-IB16I Series A, 1756-IV16 Series A, 1756-IV32 Series A, 1756-OB16D Series A, 1756-OB16I Series A, 1756-OB16IS Series A, 1756-OB8EI Series A, 1756-OV16E Series A, 1756-OG16 Series A, 1756-IG16 Series A, 1756-IC16 Series A, 1756-IN16 Series A, 1756-OB8 Series A, 1756-OC8 Series A, 1756-ON8 Series A and 1756-OV32E Series A.

0 °C to 60°C (see Ratings in Annex for de-ratings)

Approved for issue on behalf of the IECEx
Certification Body:

Paul T. Kelly

Position:

Principal Engineer - Global Hazardous Locations

Signature:
(for printed version)

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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



Allen-Bradley PLCs



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

Additional Manufacturing location(s):

Rockwell Automation 1 Allen-Bradley Drive Mayfield Hts, OH 44124 United States of America	Rockwell Automation Monterrey Mfg#1 Camino Vecinal S/N 3051 Parque Industrial Finsa Guadalupe Aeropuerto Guadalupe NL Mexico	Rockwell Automation 8440 Darrow Road Twinsburg, OH 44087 United States of America	Rockwell Automation Do Brasil LTDA Avenida Prefeito Luis Latorre n° 9401 Gleba 2 Galpao 7 Jundiai, SP Brazil
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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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

*This Certificate **does not** indicate compliance with electrical 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:

[US/UL/ExTR16.0176/01](#)

Quality Assessment Report:

[GB/ITS/QAR14.0009/02](#)

[GB/ITS/QAR15.0002/01](#)

[GB/ITS/QAR14.0010/02](#)

[US/ETL/QAR12.0005/02](#)

[GB/ITS/QAR14.0011/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

This equipment is a modular component of the Allen-Bradley ControlLogix industrial control system. They consist of various input modules used to detect input voltages of up to 30Vdc and output modules which can drive inductive loads up to 30Vdc, 2A.

See Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

This equipment shall be mounted in an IECEx certified enclosure with a minimum ingress protection rating of at least IP54 (as defined in IEC 60529) and used in an environment of not more than Pollution Degree 2 (as defined in IEC 60664-1) when applied in Zone 2 environments. The enclosure must be accessible only by the use of a tool.

Provision shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 140% of the rated voltage when applied in Zone 2 environments.

This equipment must be used only with IECEx certified Rockwell Automation equipment.

Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.

The instruction in the user manual shall be observed.

Allen-Bradley PLCs



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1: Addition of Cat. Nos: 1756-IC16 Series A, 1756-IN16 Series A, 1756-OB8 Series A, 1756-OC8 Series A, 1756-ON8 Series A, and 1756-OV32E Series A.
Corrections to electrical ratings.

Annex:

[Annex to IECEx UL 16.0151X Issue 1.pdf](#)

Ratings:

Module	Backplane Rating	Output Rating	Input Rating	Service Temperature Range Derating	T-code
1756-IG16	2 mA @ 24 V dc, 140mA @ 5.1 V dc	N/A	User Supply: 4.5-5.5Vdc, 160 mA Input: 0-5.5 V dc, 4.1mA (Sourcing) max/point	N/A	T4
1756-IV16	2 mA @ 24 V dc, 110mA @ 5.1 V dc	N/A	10-30V dc, 1.5 - 10 mA	N/A	T4
1756-IV32	2 mA @ 24 V dc, 175mA @ 5.1 V dc	N/A	10-30V dc, 1.5 - 5 mA/pin (input)	N/A	T4
1756-OB16D	140 mA @ 24 V dc, 250 mA @ 5.1 V dc	19.2-30 V dc, 2A Pilot Duty (DC-13/SQ)	N/A	Per point; 2A max. @ 30 °C & 1A max. @ 60 °C Per Module; 8A max. @ 30 °C & 4A max. @ 60 °C	T4
1756-OB16I	2.5 mA @ 24 V dc, 350 mA @ 5.1 V dc	10-30 V dc, 2A Pilot Duty (DC-13/SQ)	N/A	N/A	T4
1756-OB16IS	2.5 mA @ 24 V dc, 350 mA @ 5.1 V dc	10-30 V dc, 2A Pilot Duty (DC-13/SQ)	N/A	N/A	T4
1756-OG16	2 mA @ 24 V dc, 210mA @ 5.1 V dc	4.5-5.5 V dc, 24 mA	N/A	5.5V dc, 384 mA @ 60 °C	T4
1756-OV16E	2 mA @ 24 V dc, 210 mA @ 5.1 V dc	10-30 V dc 1 A/ Pilot Duty (DC-13/SR)	N/A	MDL OUT: 8A Max	T4
1756-IB16D	3 mA @ 24 V dc, 150 mA @ 5.1 V dc	N/A	10-30 V dc 13 mA max.	N/A	T3
1756-OB8EI	2 mA @ 24 V dc, 250 mA @ 5.1 V dc	10-30 V dc, 2A Pilot Duty (DC-13/SQ)	N/A	MDL: 16/10A 55°/60°C	T4
1756-IB16I	3 mA @ 24 V dc, 135 mA @ 5.1 V dc	N/A	10-30 V dc 10 mA max.	N/A	T4
1756-IC16	3 mA @ 24 V dc, 135 mA @ 5.1 V dc	N/A	30-60 V dc, 7 mA @ 55°C 30-55 V dc, 7 mA @ 60°C	N/A	T4
1756-IN16	2 mA @ 24 V dc, 135 mA @ 5.1 V dc	N/A	10 to 30 V ac, 50/60 Hz, 25 mA	N/A	T3
1756-OB8	2 mA @ 24 V dc, 165 mA @ 5.1 V dc	10-30 V dc, 2A Pilot Duty	N/A	MDL: 8A 60°C	T4
1756-OC8	2 mA @ 24 V dc, 165 mA @ 5.1 V dc	30-60 V dc, 2A Pilot Duty	N/A	MDL: 8A 60°C	T4
1756-ON8	2 mA @ 24 V dc, 200 mA @ 5.1 V dc	10-30 VAC 50/60 Hz. 2 A Pilot duty	N/A	MDL: 5A/4A 30°C/60°C	T4
1756-OV32E	2 mA @ 24 V dc, 390 mA @ 5.1 V dc	10-30 Vdc, 0.35A @ 60 °C 0.50A @ 50 °C Pilot Duty, DC-13/SS	N/A	GRP: 5A/8A 60°C/50°C	T4