



Certificado de Conformidade

Certificate of Compliance ♦ Certificado de Conformidad

Certificado N.º: TÜV 13.2465 X

Certificate No. ♦ Certificado N.º:

Revisão: 02

Review ♦ Revisión:

Válido até: January 28, 2023

Valid until ♦ Válido hasta:

Emitido em: January 28, 2020

Issued ♦ Emitido:

Produto:

Product ♦ Producto:

Positioner

Solicitante:

Applicant ♦ Solicitante:

ABB LTDA.

**Rodovia Senador José Ermínio de Moraes, km 11 – Aparecidinha
18087-125 – Sorocaba – SP
CNPJ: 61.074.829/0087-01**

Fabricante:

Manufacturer ♦ Fabricante:

ABB AUTOMATION PRODUCTS GMBH

**Schillerstrasse 72
32425 Minden – Germany**

Fornecedor / Representante Legal:

*Supplier / Legal Representative ♦ Proveedor /
Representante Legal:*

Not applicable

Normas Técnicas / Regulamento:

Standards / Regulation ♦ Normas / Reglamento:

**ABNT NBR IEC 60079-0:2013;
ABNT NBR IEC 60079-1:2016;
INMETRO Ordinance No. 179 of 05/18/2010.**

Esquema de Certificação:

*Certification Scheme ♦ Esquema de
Certificación:*

Certificate issued based on the model with evaluation of quality management system of the product production process and product tests, according to clause 6.1 of the Conformity Evaluation Rule, attached to the INMETRO administrative rule nº 179, issued on May 18th, 2010.

Laboratório, N.º do Relatório de Ensaios e Data:

*Laboratory, Test Report No. and Date ♦
Laboratorio, N.º del Informe de Prueba y Fecha:*

DEKRA EXAM GmbH

**Test report # DE/BVS/ExTR07.0036/01 issued on March 27th, 2013
Test report # DE/BVS/ExTR07.0036/02 issued on March 16th, 2016
Test report # DE/BVS/ExTR07.0036/03 issued on April 22nd, 2020**

Relatório de Auditoria e Data:

*Audit Report and Data ♦ Informe de Auditoría y
Fecha:*

Audit held on September 29th, 2019 – PRJC-393347-2012-PRC-BRA

Notas:

Notes ♦ Anotación:

"The validity of this Certificate of Compliance is related to fulfillment of the maintenance assessments and possible non conformities processing, according to OCP's orientation established into specific RAC. To confirm the current status of this Certificate of Compliance the INMETRO's products and services certified database shall be checked".

This certificate is related to offer 27120978 of 04/30/2020.

Igor Moreno
Local Field Manager

"This document consists of 03 pages and is valid when exhibited with all the pas. Further information and notes are contained in subsequent pages"



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List of models

Marca <i>Brand ♦ Marca</i>	Modelo <i>Model ♦ Modelo</i>	Descrição <i>Description ♦ Descripción</i>	Código de Barras GTIN <i>GTIN Barcode ♦ Código de Barras GTIN</i>
ABB	TZIDC-200	Positioner	Does Not Exist
ABB	TZIDC-210	Positioner	Does Not Exist
ABB	TZIDC-220	Positioner	Does Not Exist

Description:

The Positioner TZIDC-200/210/220 is designed with type of protection explosion proof enclosure and manufactured in aluminum or stainless steel. The positioner is designed for the transmission of an electrical signal into a pneumatic signal. Neither flammable gases nor oxygen or enriched oxygen gases shall be used as pressure media.

Thermal data:

Temperature Class:

T4	$-40\text{ °C} \leq T_a \leq +85\text{ °C}$
T5	$-40\text{ °C} \leq T_a \leq +80\text{ °C}$
T6	$-40\text{ °C} \leq T_a \leq +65\text{ °C}$

Electrical data:

Voltage:	$\leq 30\text{ Vac/Vdc}$
Current:	$\leq 20\text{ mA}$

Pneumatic data:

Supply pressure:	$\leq 6\text{ bar}$
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Testing and analysis performed:

The testing and analysis performed are described on technical report #CC-132465/02.

Technical Documentation:

Document	Pages	Description	Rev.	Date
3KXE000009G0109	2	TZIDC/TZIDC-200	4	19/11/2015
3KXE341204R4408	36	CI/TZIDC-200/ATEX/IECEX-PT	B	10/2018
901132	2	Stellungsregler	3	20/02/2013
901136	1	Sinterfilter	2	20/02/2013
901288	3	General Konstruktion Setup	4	11/02/2016
901331	1	Eingereichte Unterlagen	3	11/03/2013
901332	3	Description	1	12/03/2013
901339	1	Schild Inmetro	2	22/07/2020
PB03916041	12	Description for Positioner TZIDC-2**	d	11/02/2015



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Marking:

The Positioner type TZIDC-200/210/220 was approved in the tests and analysis, in accordance to the applicable standards and they shall have the following marking, taking into account, the item "Remarks".

Ex db IIC T6/T5/T4 Gb

Remarks:

1. The certificate number has the letter X to indicate the following restriction for use:
The dimensions of the flameproof joints are in parts other than the relevant minimum or maximum values of the standard. For information on the dimensions of the flameproof joints contact the manufacturer.
If the positioner is used at an ambient temperature above 60 °C or below -20 °C, cable glands and cables approved for a service temperature corresponding to the maximum ambient temperature increased by 10 K or corresponding to the minimum ambient temperature shall be used.
Fasteners with a minimum property class of 10.12, A2-70 or A2-80 must be used for the closing of the flameproof enclosure.
2. This certificate is valid for the products with the same model and type number according to the prototype tested. Any modification in the project, as well as the use of components apart from those defined by the product documentation, without previous authorization from TÜV Rheinland, will invalid this certificate.
3. It is manufacturer responsibility to assure that the manufactured products are in accordance to the tested prototype specification, through of visual, dimensional inspections and routine testing.
4. The products must bear, on the external surface and in a visible place, the conformity marking and the technical characteristics in accordance to the standards ABNT NBR IEC 60079-0 / ABNT NBR IEC 60079-1 and Regulation on Conformity Assessment, attached to INMETRO administrative rule # 179, issued on May 18th, 2010. This marking must be legible and durable, taking into account, all possible chemical corrosion.
5. The activities of installation, inspection, maintenance, repair, overhaul and recovery of products are the user's responsibility and must be performed in accordance with the requirements of current technical standards and the manufacturer's recommendations.

Natureza das Revisões / Data

Nature of Reviews/Date ♦

Naturaleza de las Revisiones / Fecha

Review 00: 28/01/2014 – Initial Certification;

Review 01: 13/11/2017 – Revalidation;

Review 02: 24/07/2020 – Revalidation and inclusion of new test report.



Digitally signed by TÜV RHEINLAND DO BRASIL LTDA:
01950467000165
DN: c=BR, o=ICP-Brasil, st=SP, l=Sao Paulo, ou=Array,
cn=TÜV RHEINLAND DO BRASIL LTDA:01950467000165
Reason: Digital Signature
Location: Sao Paulo/SP/BR
Date: 24.07.2020 18:43:28 +0000