

Johnson Controls VA-7480-0312

Johnson Controls VA-7480-0312 Floating Electric Valve Actuator

Model: VA-7480-0312 | Brand: Johnson Controls

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1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Johnson Controls VA-7480-0312 Floating Electric Valve Actuator. The VA-748x Series electric valve actuators are designed to provide floating or proportional control in various HVAC applications. Their compact design makes them particularly suitable for installations in confined spaces, such as fan coil units.

Please read this manual thoroughly before attempting any installation or operation to ensure safe and efficient use of the product.

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of injury or damage to the equipment:

- Installation and servicing must be performed by qualified personnel only.
- Disconnect power before installing or servicing the actuator to prevent electrical shock.
- Ensure all wiring complies with local and national electrical codes.
- Do not operate the actuator beyond its specified voltage and temperature limits.
- Protect the actuator from moisture and extreme temperatures.

3. PRODUCT OVERVIEW AND FEATURES

The Johnson Controls VA-7480-0312 actuator is engineered for reliable performance in HVAC systems. Key features include:

- **Compact Design:** Allows for installation in confined locations, such as fan coil applications.
- **Auto-Commissioning:** Simplifies installation, as models require no adjustments in the field.
- **Auto-Shutoff Actuator Motor:** Extends actuator life by reducing drive time and excessive motor wear.

- **Flexible Mounting:** The actuator can be mounted after the valve body is piped, simplifying installation and providing application flexibility.



Figure 3.1: Johnson Controls VA-7480-0312 Floating Electric Valve Actuator. This image shows the compact white actuator unit with a brass-colored threaded base, designed for mounting onto a valve. A grey electrical cable extends from the side. The top surface displays wiring diagrams and product specifications, including "Johnson Controls", "VA-7450-10011" (note: this is a similar model number visible in the image, the product is VA-7480-0312), "24 V, 50/60 Hz, 2.7 VA, CLASS 2", and operating temperature range.

4. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of the VA-7480-0312 actuator. Follow these steps carefully:

1. **Prepare the Valve:** Ensure the valve body is securely piped into the system and is free from debris.
2. **Mount the Actuator:** Align the actuator's threaded base with the valve's connection point. Screw the actuator onto the valve body until it is hand-tight, then use an appropriate tool to secure it firmly, but do not overtighten. The design allows for mounting after the valve is piped.

3. Electrical Connections:

- Refer to the wiring diagram on the actuator's label (e.g., "RED - ON", "BLUE - COM", "WHITE - UP", "YELLOW - DOWN" for floating control, or "ON/OFF CONTROL" as indicated).
- Connect the 24 Vac power supply to the designated terminals. Ensure the power supply matches the actuator's requirements (24 V, 50/60 Hz, 2.7 VA).
- For floating control, connect the control signals (e.g., Up/Down) as per your system's requirements.
- Verify all connections are secure and insulated.

4. **Power On and Test:** Restore power to the system. The auto-commissioning feature will simplify initial setup. Observe the actuator's movement to ensure it responds correctly to control signals.

Note: No official product videos are available for this model.

5. OPERATING INSTRUCTIONS

The VA-7480-0312 actuator operates based on the control signals received from your HVAC system's controller. It provides either floating or proportional control, depending on the specific model variant and wiring configuration.

- **Floating Control:** In floating control applications, the actuator moves the valve to an open or closed position based on sustained control signals (e.g., "Up" or "Down"). Once the desired position is reached, the signal is removed, and the actuator holds its position.
- **Proportional Control:** For proportional control, the actuator modulates the valve position continuously in response to an analog control signal (e.g., 0-10VDC or 4-20mA). This allows for precise flow regulation.
- **Auto-Shutoff:** The integrated auto-shutoff feature protects the motor by stopping it once the end-of-travel is reached, preventing excessive wear and extending the actuator's lifespan.

Ensure your HVAC controller is properly configured to send the correct signals to the actuator for desired valve operation.

6. MAINTENANCE

The Johnson Controls VA-7480-0312 actuator is designed for minimal maintenance. However, periodic checks can help ensure long-term reliability:

- **Visual Inspection:** Periodically inspect the actuator and its connections for any signs of physical damage, loose wiring, or corrosion.
- **Cleanliness:** Keep the actuator free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Operational Check:** Occasionally verify that the actuator moves smoothly through its full range of motion and responds correctly to control signals.
- **No Lubrication Required:** The actuator is factory-lubricated and does not require additional lubrication.

If any issues are observed, refer to the Troubleshooting section or contact technical support.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your VA-7480-0312 actuator.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Actuator does not move.	No power supply; incorrect wiring; faulty control signal; actuator motor failure.	Check power connections and voltage (24 Vac). Verify wiring against the diagram. Test control signals from the controller. If all checks fail, the actuator may need replacement.
Actuator moves erratically or not to full travel.	Obstruction in valve; incorrect control signal; mechanical binding.	Inspect the valve for obstructions. Verify the stability and correctness of the control signal. Check for proper mounting and alignment.
Actuator makes unusual noises.	Internal mechanical issue; excessive load.	Disconnect power and inspect for any visible damage. Ensure the valve operates smoothly manually (if applicable). If noise persists, contact technical support.

For issues not covered here, please contact Johnson Controls technical support.

8. SPECIFICATIONS

Detailed technical specifications for the Johnson Controls VA-7480-0312 Floating Electric Valve Actuator:

Model Number:	VA-7480-0312
Brand:	Johnson Controls
Product Dimensions:	5 x 4 x 5 inches
Item Weight:	1 Pound
Material:	Copper (likely referring to internal components or valve connection)
Power Supply:	24 Vac, 50/60 Hz
Power Consumption:	2.7 VA
Class:	Class 2
Operating Temperature:	32°F to 122°F (0°C to 50°C)
Inlet Connection Size:	4 Inches
Inlet Connection Type:	National Pipe Thread
Outlet Connection Size:	4 Inches
Outlet Connection Type:	NPT
Number of Ports:	3
First Available Date:	December 11, 2014

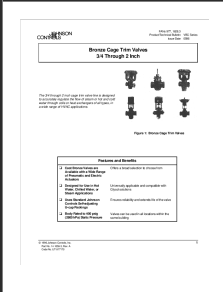
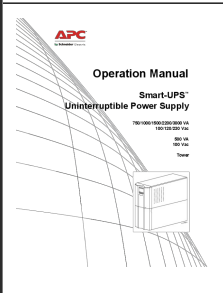
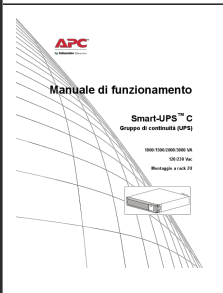
9. WARRANTY AND SUPPORT

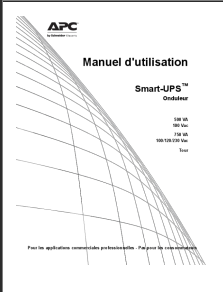
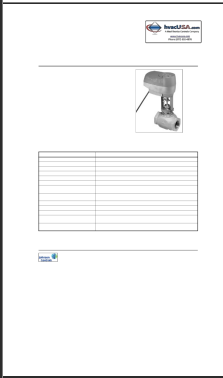
Warranty Information: Specific warranty details for the Johnson Controls VA-7480-0312 actuator are typically provided at the point of purchase or can be found on the official Johnson Controls website. Please retain your proof of purchase for warranty claims.

Technical Support: For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Johnson Controls customer service or visit their official support portal. Contact information can usually be found on the manufacturer's website or product packaging.

Online Resources: For additional documentation, product updates, or frequently asked questions, please visit the official Johnson Controls website: www.johnsoncontrols.com

Related Documents - VA-7480-0312

	Johnson Controls Bronze Cage Trim Valves: 3/4 to 2 Inch Product Guide Comprehensive technical guide for Johnson Controls Bronze Cage Trim Valves (3/4 to 2 Inch), detailing features, pneumatic and electric actuator options, specifications, operation, installation, and repair parts for HVAC applications.
	APC Smart-UPS Operation Manual: Installation, Operation, and Troubleshooting Comprehensive operation manual for APC Smart-UPS Uninterruptible Power Supply models, covering installation, safety, specifications, product overview, and troubleshooting. Learn how to connect equipment, navigate the display panel, and configure settings for optimal performance.
	Manuale di Funzionamento APC Smart-UPS C: Guida Completa Manuale di funzionamento dettagliato per APC Smart-UPS C (1000/1500/2000/3000 VA, 120/230 Vac, Montaggio a Rack 2U). Include istruzioni di sicurezza, installazione, funzionamento, specifiche tecniche, risoluzione problemi e garanzia.
	Uponor Vario Retrofit Actuator: Installation Guide and Technical Specifications Comprehensive guide to installing and operating the Uponor Vario retrofit actuator, including detailed technical specifications, compatibility information, and safety instructions for HVAC systems.

	Manuel d'utilisation APC Smart-UPS : Guide complet pour Onduleur Ce manuel d'utilisation détaillé fournit des instructions complètes pour l'installation, l'utilisation et la maintenance des onduleurs APC Smart-UPS. Il couvre la sécurité, le fonctionnement, le dépannage et la garantie pour les modèles 500 VA et 750 VA.
	VA7800 Series Electric Valve Actuators Product Bulletin Johnson Controls Detailed product bulletin for Johnson Controls VA7800 Series Electric Valve Actuators, covering features, specifications, operation, wiring, and mounting for HVAC applications.

Documents - Johnson Controls – VA-7480-0312

VA-748x Electric Valve Actuators

Product Bulletin

VA-7480-0312, VA-7482-0312
VA-7482-8002-RA, VA-7482-9002-RA

Code No. LIT-12011893
Issued January 20, 2016

Refer to the QuickLIT website for the most up-to-date version of this document.

VA-748x Series Electric Valve Actuators provide floating or proportional action in HVAC applications. The compact design of this actuator series makes it ideal for installation in confined locations, such as fan coil applications.

The VA-748x Series Actuator is designed for field mounting onto the terminal unit valves made by Johnson Controls and its competitors. Due to the innovative concept of auto stroke detection, the VA-748x actuator can be installed over most of the conventional terminal unit valves in the market and provides independent control valves with variable strokes.



Figure 1: VA-7480-0312 Electric Valve Actuator

Table 1: Features and Benefits	
Features	Benefits
Auto-communicating	Simple installation. Some models require no adjustments on the motor.
Auto-stroke/Actuator Motor	Extends actuator life by reducing drive time and excessive motor wear.
Stroke, Valve Position, Pressure, Phase Detection	Alerts the operator to low water applications with low temperatures up to 100°F (38°C).
Actuator Head Can Be Mounted onto the Valve Body in Place	Simple installation and provides applications flexibility.
Compact Design	Allows for installation in confined locations, such as fan coil applications.
Operating Status LED	Provides direct visual indication of the actuator operating status.
Actuator Test Can Be Equipped either to be Mounted on the Valve Body	Ensures compliance by allowing the actuator testing entry to be located in any direction.

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VA-748x Electric Valve Actuators Product Bulletin

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[pdf] Datasheet

Johnson Controls VA 7482 0312 Data Sheet Electronic Valve Actuator Prop 24V Industrial Stores
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VA-748x Electric Valve Actuators Product Bulletin **VA-7480-0312**, VA-7482-0312 VA-7482-8002-RA, VA-7482-9002-RA Code No. LIT-12011893 Issued January 20, 2016
Refer to the QuickLIT website for the most up-to-date version of this document. VA-748x Series Electric Valve Actuators provide floating or pr...

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VA 748x Electric Terminal Unit Actuator Product Bulletin 7480 0011 0312 7481 0001 0201 TA 0501 4001

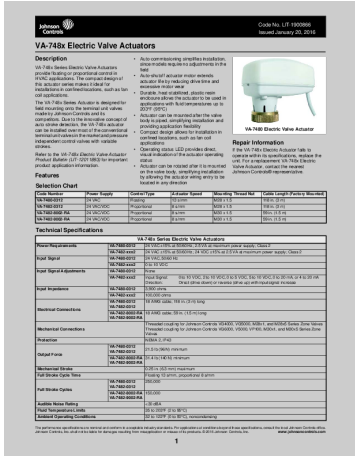
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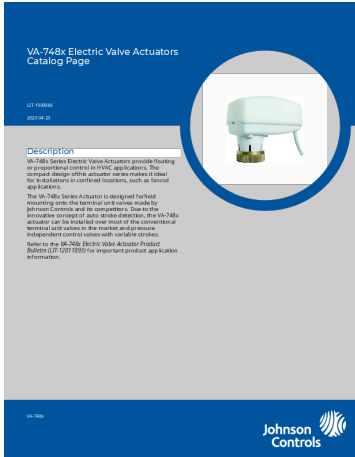
VA-748x Electric Terminal Unit Actuator Product Bulletin Overview The VA-748x Series Electric Termin ... damage, while enhancing overall efficiency 1 VA-748x Ordering codes Product codes VA-7480-0011 **VA-7480-0312** VA-7481-0011 VA-7480-0001 VA-7481-0001 VA-7480-0201-TA VA-7480-0501-TA VA-7480-4001 VA-... lang:en score:26 filesize: 5 M page_count: 20 document date: 2021-01-26



[pdf] Catalog

VA 748x Electric Valve Actuators Catalog Page Apex Controls 2 июн 2020 г — Series provide floating or proportional control in HVAC applications The compact design of 1900866 buildingcontrolsgroup mw link id 5340 |||

Code No. LIT-1900866 Issued January 20, 2016 VA-748x Electric Valve Actuators Description VA-748x ... VA-748x Electric Valve Actuator, contact the nearest Johnson Controls representative. Code Number **VA-7480-0312** VA-7482-0312 VA-7482-8002-RA VA-7482-9002-RA Power Supply 24 VAC 24 VAC/VDC 24 VAC/VDC... lang:en score:23 filesize: 36.77 K page_count: 2 document date: 2016-01-15



[pdf] Catalog

VA 748x Electric Valve Actuators Catalog Page Code No LIT 1900866 cgproducts johnsoncontrols 80 CAT VA-748x Electric Valve Actuators Catalog Page LIT-1900866 2020-04-29 Description VA-748x Series Elec ... son Controls representative. Selection chart Table 1: Selection chart Code number Power supply **VA-7480-0312** VA-7482-0312 VA-7482-8002-RA VA-7482-9002-RA 24 VAC 24 VAC/VDC 24 VAC/VDC 24 VAC/VDC ... lang:en score:23 filesize: 289.67 K page_count: 4 document date: 2020-05-06

VA-748x Electric Valve Actuators

Product Bulletin

VA-7480-0312, VA-7482-0312

VA-7482-8002-RA, VA-7482-9002-RA

Code No. LIT-12011893

Issued January 20, 2016

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Figure 1 VA-748x-0312 Electric Valve Actuator

Table 1: Features and Benefits

Features	Benefits
Auto-mounting	Simple installation, since models require no adjustments in the field.
Auto-stroke Actuator Motor	Extends actuator life by reducing drive time and excessive valve wear.
Stroke, Valve Position, Pressure, Phase Detection	Adapt the actuator to low-voltage applications with full temperature up to 100°F (38°C).
Actuator May Can Be Mounted onto the Valve Body in Place	Simple installation and previous applications flexibility.
Compact Design	Allows for installation in confined locations, such as fan coil applications.
Operating Status LED	Provides direct, visual indication of the actuator operating status.
Actuator Test Can Be Requested after it is Mounted on the Valve Body	Ensures compliance by allowing the actuator wiring entry to be secured in any direction.

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VA-748x Electric Valve Actuators Product Bulletin

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VA 748x Electric Valve Actuators Product Bulletin 4 DIP Switch 1 2 3 and 6 switch allow the user to change analog input ranges 12011893 cgproducts johnsoncontrols MET 80 met

VA-748x Electric Valve Actuators Product Bulletin **VA-7480-0312**, VA-7482-0312 VA-7482-8002-RA, VA-7482-9002-RA Code No. LIT-12011893 Issued January 20, 2016

Refer to the QuickLIT website for the most up-to-date version of this document. VA-748x Series Electric Valve Actuators provide floating or pr...

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VA-748x Electric Valve Actuators

Product Bulletin

VA-7480-0312, VA-7482-0312

VA-7482-8002-RA, VA-7482-9002-RA

Code No. LIT-12011893

Issued January 20, 2016

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Figure 1 VA-748x-0312 Electric Valve Actuator

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VA-748x Electric Valve Actuators Product Bulletin

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VA 748x Electric Valve Actuators Product Bulletin Code No LIT 12011893 2016 01 7482 8002 RA 24VAC DC Proportional Actuator s3 us east 2 amazonaws buildingcontrolsgroup media 1 |||

VA-748x Electric Valve Actuators Product Bulletin **VA-7480-0312**, VA-7482-0312 VA-7482-8002-RA, VA-7482-9002-RA Code No. LIT-12011893 Issued January 20, 2016

Refer to the QuickLIT website for the most up-to-date version of this document. VA-748x Series Electric Valve Actuators provide floating or pr...

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VA-748x

Electric Terminal Unit Actuator

Product Bulletin

Refer to the QuickLIT website for the most up-to-date version of this document.

VA-748x Series provides Floating, Proportional or Proportional control with 0-10 V position feedback signal in HVAC applications.

The compact design of this actuator allows it to be installed in confined spaces, such as fan coil, chilled ceiling, or ceiling air.

The VA-748x Series actuator is designed for field mounting onto Johnson Controls and competitors' Terminal Unit Valves.

Due to the innovative concept of auto stroke detection, the VA-748x can be installed over most of the conventional terminal unit valve in the manual and PCV with variable strokes.



Figure 1 VA-748x-0312 Electric Valve Actuator

Table 1: Features and Benefits

• Low line voltage	• Fan coil applications
• Floating and proportional control	• Fan coil applications
• Voltage and current analog input	• Fan coil applications
• Different analog input ranges	• Fan coil applications
• Different actuator speed	• Fan coil applications
• Double color LED	• Fan coil applications
• Removable cable	• Fan coil applications
• Different cable length available as separate kit	• Fan coil applications
• Auto Stroke Detection	• Fan coil applications
• Feedback Control	• Fan coil applications

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VA-748x Electric Terminal Unit Actuator Product Bulletin

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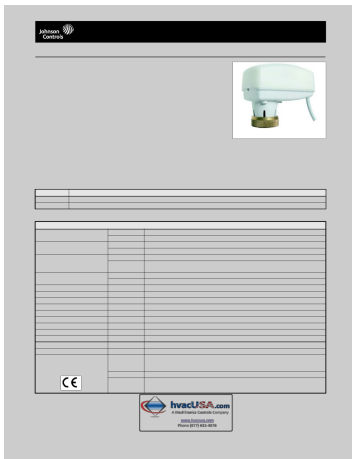
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VA-748x Electric Terminal Unit Actuator Product Bulletin The VA-748x Series provides Floating, Propo10 VDC PB_VA-748x_25 03 2019 PB_VA-748x_25 03

2019 Ordering Codes Product Codes VA-7480-0011 **VA-7480-0312** Control Type Power Supply Running Time 13 sec/mm Nominal Force Factory Stroke Conf...

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[pdf] Datasheet Catalog

VA 748x Electric Valve Actuators Catalog Page 7482 0312 signed hvacusa media datasheetfiles |||

Code No. LIT-1900866 Issued February 14, 2014 VA-748x Electric Valve Actuators

Description VA-7480 ... the actuator wiring entry to be located in any direction

Selection Chart Code Number Description **VA-7480-0312** 24 VAC On/Off or Floating

Control Electric Valve Actuator VA-7482-0312 0 to 10 VDC Prop...

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[pdf] Documentation

VA 748x Electric Valve Actuators Product Bulletin Code No LIT 12011893 Documentation The compact

design of this actuator series makes it ideal for installations in confined locations such as fan coil

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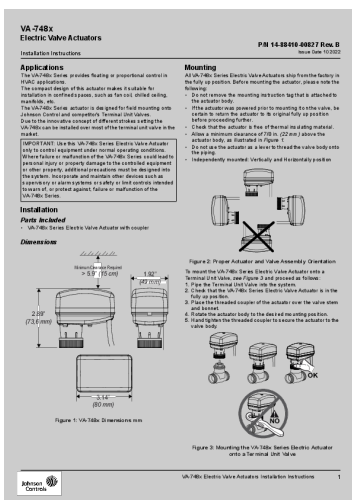
VA-748x Electric Valve Actuators Product Bulletin **VA-7480-0312**, VA-7482-0312

Code No. LIT-12011893 Issued February 14, 2014 Refer to the QuickLIT website for

the most up-to-date version of this document. VA-7480 Series Electric Valve

Actuators provide floating or proportional control in HVAC appli...

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[pdf] Instructions

VA 748x Electric Valve Actuators 14 88410 00827 operational mode led green When the input signal

increases eg from 0V to 10V actuator is configured as Direct Action DA or retracts if the IS Rev B 10 22

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VA-748x Electric Valve Actuators Installation Instructions P/N 14-88410-00827 Rev. B

Issue Date 10 ... set the jumper to the valve port type that corresponds to the service

port of the valve. Operation **VA-7480-0312** suitable for the VG5000 and VG4000

24Vac Floating Model When the signal is applied ...

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VA 748x Series Electric Unit Actuator Product Bulletin Code No LIT 12013756 Stáhnout 7480 0011

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VA-748x Electric Terminal Unit Actuator Product Bulletin Overview The VA-748x

Series Electric Termin ... damage, while enhancing overall efficiency 1 VA-748x

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VA 748x Electric Unit Actuator Product Bulletin Code No Lit 12013756 7480 0011 0312 7481 0001 0201
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VA-748x Electric Terminal Unit Actuator Product Bulletin Overview The VA-748x Series Electric Termin ... damage, while enhancing overall efficiency 1 VA-748x Ordering codes Product codes VA-7480-0011 **VA-7480-0312** VA-7481-0011 VA-7480-0001 VA-7481-0001 VA-7480-0201-TA VA-7480-0501-TA VA-7480-4001 VA-... lang:en score:19 filesize: 5 M page count: 20 document date: 2024-02-26

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VA-748x Electric Terminal Unit Actuator Product Bulletin Overview The VA-748x Series Electric Termin ... damage, while enhancing overall efficiency 1 VA-748x Ordering codes Product codes VA-7480-0011 **VA-7480-0312** VA-7481-0011 VA-7480-0001 VA-7481-0001 VA-7480-0201-TA VA-7480-0501-TA VA-7480-4001 VA-... lang:en score:15 filesize: 5 M page_count: 20 document date: 2021-01-29



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VA748x Electric Terminal Unit Actuator Product Bulletin Overview The VA-748x Series Electric Termina ... hile enhancing overall efficiency PB-VA748x - 03 2023 Ordering codes Product codes VA-7480-0011 **VA-7480-0312** VA-7481-0011 VA-7480-0001 VA-7481-0001 VA-7480-0201-TA VA-7480-0501-TA VA-7480-4001 VA-... lang:en score:15 filesize: 4.5 M page_count: 20 document date: 2023-03-30



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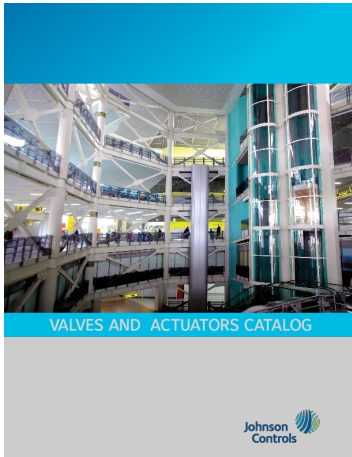
VA 748x Actuador eléctrico de unidad terminal boletín del producto 7480 0011 0312 7481 0001 0201 TA

0501 4001 4003 0013 0003 7482 1001 2001 3001 RA 1301 0311 2201 2501 5001 6001 7001 8201 9201

8002 9002 Para encender conecte la herramienta configuración al puerto específico actuador y pulse el

botón codificador más 2 segundos Nota La 886 v11 es ES files hvacnavigator p |||

VA-748x Actuador elctrico de unidad terminal Boletn del producto Descripcin general Los actuadores e ... os y aumenta la eficiencia general. 1 VA-748x Cdigos de pedido Cdigos de producto VA-7480-0011 **VA-7480-0312** VA-7481-0011 VA-7480-0001 VA-7481-0001 VA-7480-0201-TA VA-7480-0501-TA VA-7480-4001 VA-... lang:es score:14 filesize: 4.9 M page_count: 20 document date: 2021-03-08



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