

# Altivar HVAC ATH200

## Variable Speed Drives for Asynchronous and Synchronous Motors

ATEX manual for applications in explosive gas atmosphere or in the presence of combustible dust

JPS43218.01  
11/2025



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The information provided in this document contains general descriptions, technical characteristics and/or recommendations related to products/solutions.

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# Safety Information

## Important Information

Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

### **DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

### **WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

### **CAUTION**

**CAUTION** indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

### **NOTICE**

**NOTICE** is used to address practices not related to physical injury.

## Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

## Qualification of Personnel

Only appropriately trained persons who are familiar with and understand the contents of this manual and all other pertinent product documentation are authorized to work on and with this product. In addition, these persons must have received safety training to recognize and avoid hazards involved. These persons must have sufficient technical training, knowledge and experience and be able to foresee and detect potential hazards that may be caused by using the product, by changing the settings and by the mechanical, electrical and electronic equipment of the entire system in which the product is used. All persons working on and with the product must be fully familiar with all applicable standards, directives, and accident prevention regulations when performing such work.

## Intended Use

This product is intended for industrial use according to this manual.

The product may only be used in compliance with all applicable safety standard and local regulations and directives, the specified requirements and the technical data. The product must be installed outside the hazardous ATEX zone. Prior to using the product, you must perform a risk assessment in view of the planned application. Based on the results, the appropriate safety measures must be implemented. Since the product is used as a component in an entire system, you must ensure the safety of persons by means of the design of this entire system (for example, machine design). Any use other than the use explicitly permitted is prohibited and can result in hazards.

# About the document

## Document Scope

The purpose of this document is to explain how the STO (Safe Torque Off) safety function allows the ATH200 to control and command motors installed in explosive atmospheres (Ex zones\* 1/21, or zones 2/22).

\*ATEX zones following ATEX directive 2014/34/UE.

## Validity Note

Original instructions and information given in the present document have been written in English (before optional translation).

This documentation is valid for the Altivar HVAC ATH200 drives.

## Product Related Information

**Read and understand these instructions before performing any procedure with this device.**

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH**

- Only appropriately trained persons who are familiar with and fully understand the contents of the present manual and all other pertinent product documentation and who have received all necessary training to recognize and avoid hazards involved are authorized to work on and with this device system.
- Installation, adjustment, repair and maintenance must be performed by qualified personnel.
- Verify compliance with all local and national electrical code requirements as well as all other applicable regulations with respect to grounding of all equipment.
- Only use properly rated, electrically insulated tools and measuring equipment.
- Do not touch unshielded components or terminals with voltage present.
- Prior to performing any type of work on the device system, block the motor shaft to prevent rotation.
- Insulate both ends of unused conductors of the motor cable.
- Do not short across the DC bus terminals or the DC bus capacitors or the braking resistor terminals.

**Failure to follow these instructions will result in death or serious injury.**

Damaged products or accessories may cause electric shock or unanticipated equipment operation.

**⚡⚠ DANGER**

**ELECTRIC SHOCK OR UNANTICIPATED EQUIPMENT OPERATION**

Do not use damaged products or accessories.

**Failure to follow these instructions will result in death or serious injury.**

Contact your local Schneider Electric sales office if you detect any damage whatsoever.

Your application consists of a whole range of different interrelated mechanical, electrical, and electronic components, the device being just one part of the application. The device by itself is neither intended to nor capable of providing the entire functionality to meet all safety-related requirements that apply to your application. Depending on the application and the corresponding risk assessment to be conducted by you, a whole variety of additional equipment is required such as, but not limited to, external encoders, external brakes, external monitoring devices, guards, etc.

As a designer/manufacturer of machines, you must be familiar with and observe all standards that apply to your machine. You must conduct a risk assessment and determine the appropriate Performance Level (PL) and/or Safety Integrity Level (SIL) and design and build your machine in compliance with all applicable standards. In doing so, you must consider the interrelation of all components of the machine. In addition, you must provide instructions for use that enable the user of your machine to perform any type of work on and with the machine such as operation and maintenance in a safe manner.

The present document assumes that you are fully aware of all normative standards and requirements that apply to your application. Since the device cannot provide all safety-related functionality for your entire application, you must ensure that the required Performance Level and/or Safety Integrity Level is reached by installing all necessary additional equipment.

**⚠ WARNING**

**INSUFFICIENT PERFORMANCE LEVEL/SAFETY INTEGRITY LEVEL AND/OR UNINTENDED EQUIPMENT OPERATION**

- Conduct a risk assessment according to EN ISO 12100 and all other standards that apply to your application.
- Use redundant components and/or control paths for all critical control functions identified in your risk assessment.
- Implement all monitoring functions required to avoid any type of hazard identified in your risk assessment, for example, slipping or falling loads.
- Verify that the service life of all individual components used in your application is sufficient for the intended service life of your overall application.
- Perform extensive commissioning tests for all potential error situations to verify the effectiveness of the safety-related functions and monitoring functions implemented, for example, but not limited to, speed monitoring by means of encoders, short circuit monitoring for all connected equipment, correct operation of brakes and guards.
- Perform extensive commissioning tests for all potential error situations to verify that the load can be brought to a safe stop under all conditions.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

Product may perform unexpected movements because of incorrect wiring, incorrect settings, incorrect data or other errors.

## **⚠ WARNING**

### **UNANTICIPATED EQUIPMENT OPERATION**

- Carefully install the wiring in accordance with the EMC requirements.
- Do not operate the product with unknown or unsuitable settings or data.
- Perform a comprehensive commissioning test.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

## **⚠ WARNING**

### **LOSS OF CONTROL**

- The designer of any control scheme must consider the potential failure modes of control paths and, for critical control functions, provide a means to achieve a safe state during and after a path failure. Examples of critical control functions are emergency stop, overtravel stop, power outage and restart.
- Separate or redundant control paths must be provided for critical control functions.
- System control paths may include communication links. Consideration must be given to the implications of unanticipated transmission delays or failures of the link.
- Observe all accident prevention regulations and local safety guidelines (1).
- Each implementation of the product must be individually and thoroughly tested for proper operation before being placed into service.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

(1) For USA: Additional information, refer to NEMA ICS 1.1 (latest edition), Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control and to NEMA ICS 7.1 (latest edition), Safety Standards for Construction and Guide for Selection, Installation and Operation of Adjustable-Speed Drive Systems.

The temperature of the products described in this manual may exceed 80°C (176°F) during operation.

## **⚠ WARNING**

### **HOT SURFACES**

- Ensure that any contact with hot surfaces is avoided.
- Do not allow flammable or heat-sensitive parts in the immediate vicinity of hot surfaces.
- Verify that the product has sufficiently cooled down before handling it.
- Verify that the heat dissipation is sufficient by performing a test run under maximum load conditions.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

## **NOTICE**

### **DESTRUCTION DUE TO INCORRECT MAINS VOLTAGE**

Before switching on and configuring the product, verify that it is approved for the mains voltage.

**Failure to follow these instructions can result in equipment damage.**

## General Cybersecurity Information

In recent years, the growing number of networked machines and production plants has seen a corresponding increase in the potential for cyber threats, such as unauthorized access, data breaches, and operational disruptions. You must, therefore, consider all possible cybersecurity measures to help protect assets and systems against such threats.

To help keep your Schneider Electric products secure and protected, it is in your best interest to implement the cybersecurity best practices as described in the [Cybersecurity Best Practices](#) document.

Schneider Electric provides additional information and assistance:

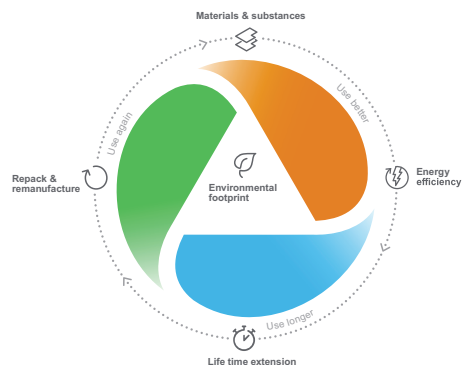
- Subscribe to the Schneider Electric security newsletter.
- Visit the [Cybersecurity Support Portal](#) web page to:
  - Find Security Notifications.
  - Report vulnerabilities and incidents.
- Visit the [Schneider Electric Cybersecurity and Data Protection Posture](#) web page to:
  - Access the cybersecurity posture.
  - Learn more about cybersecurity in the cybersecurity academy.
  - Explore the cybersecurity services from Schneider Electric.

## Environmental Data

The Environmental Data Program is a framework for how we measure, categorize, and compare the environmental attributes and footprint of our products.

Using a rigorous, fact-based methodology, the program provides environmental data from across the product lifecycle.

Five data categories across the product lifecycle



**Use Better:** How sustainable a product is, including environmental footprint, materials and substances, packaging, and energy efficiency.

**Use Longer:** How a product's life time can be effectively extended in terms of reparability and updatability.

**Use Again:** How a product can be reused, from dismantling and remanufacturing to recyclability and manufacturer take back.

With this transparent, verified data, customers and partners are empowered to make conscious environmental choices and accurately evaluate and report on sustainability performance.

All our hardware offers have an associated environmental data available on [se.com](#) product pages.

Refer to [Environmental Data Program](#) for more information.

## Related Documents

Use your tablet or your PC to quickly access detailed and comprehensive information on all our products on [www.se.com](#).

The internet site provides the information you need for products and solutions:

- The whole catalog for detailed characteristics and selection guides,
- The CAD files to help design your installation, available in over 20 different file formats,
- All software and firmware to maintain your installation up to date,

- A large quantity of White Papers, Environment documents, Application solutions, Specifications... to gain a better understanding of our electrical systems and equipment or automation,
- And finally all the User Guides related to your drive, listed below:

Title of Documentation	Reference Number	
Catalog: Altivar Building ATH200	DIA2ED2250901EN (English)	DIA2ED2250901FR (French)
ATH200 Getting Started	JPS43191 (English), JPS43192 (French), JPS43193 (German), JPS43194 (Spanish)	JPS43198 (Italian), JPS43199 (Chinese), JPS43197 (Portuguese), JPS43195 (Turkish)
ATH200 Getting Started Annex (SCCR)	JPS43196 (English)	
ATH200 Installation manual	JPS43203 (English), JPS43204 (French), JPS43202 (German), JPS43201 (Spanish),	JPS43200 (Italian), JPS43208 (Chinese), JPS43205 (Portuguese), JPS43209 (Turkish)
ATH200 Programming manual	JPS43207 (English), JPS43206 (French), JPS43212 (German), JPS43211 (Spanish),	JPS43210 (Italian), JPS43213 (Chinese), JPS43214 (Portuguese), JPS43215 (Turkish)
ATH200 ATEX manual	JPS43218 (English)	
ATH200 Modbus manual	JPS43217 (English)	
ATH200 BACnet manual	JPS43216 (English)	
ATH200 Communication Parameters	JPS43219 (English)	
ATH200 Safety Functions manual	JPS43226 (English), JPS43227 (French), JPS43229 (German),	JPS43233 (Spanish), JPS43231 (Italian), JPS43232 (Chinese)
ATH200 - ATV Logic manual	JPS43234 (English), JPS43230 (French), JPS43236 (German),	JPS43238 (Spanish), JPS43237 (Italian), JPS43235 (Chinese)
SoMove: FDT	SoMove_FDT (English, French, German, Spanish, Italian, Chinese)	
ATH200: DTM	ATH200 DTM Library EN (English – to be installed first)	ATH200 DTM Lang IT (Italian)
	ATH200 DTM Lang FR (French)	ATH200 DTM Lang DE (German)
	ATH200 DTM Lang SP (Spanish)	ATH200 DTM Lang CN (Chinese)
Recommended Cybersecurity Best Practices	CS-Best-Practices-2019-340 (English)	

To find documents online, visit the Schneider Electric download center ([www.se.com/ww/en/download/](http://www.se.com/ww/en/download/)).

## Information on Non-Inclusive or Insensitive Terminology

As a responsible, inclusive company, Schneider Electric is constantly updating its communications and products that contain non-inclusive or insensitive terminology. However, despite these efforts, our content may still contain terms that are deemed inappropriate by some customers.

## Terminology used in this document

The technical terms, terminology, and the corresponding descriptions in this manual normally use the terms or definitions in the relevant standards.

Among others, these standards include:

- ISO 13849: The Foundation of Functional Safety in the Machinery
- IEC 60204-1: Safety of machinery - Electrical equipment of machines – Part 1: General requirements.
- IEC 61158 series: Industrial communication networks - Fieldbus specifications
- IEC 61508 Ed.2 series: Functional safety of electrical/electronic/programmable electronic safety-related.
- IEC 61784 series: Industrial communication networks - Profiles.
- IEC 61800 series: Adjustable speed electrical power drive systems.
- IEC 62443: Security for industrial automation and control systems.

In the area of drive systems this includes, but is not limited to, terms such as **error**, **error message**, **failure**, **fault**, **fault reset**, **protection**, **safe state**, **safety function**, **warning**, **warning message**, and so on.

In addition, the term **zone of operation** is used in conjunction with the description of specific hazards, and is defined as it is for a **hazard zone** or **danger zone** in the EC Machinery Directive (2006/42/EC) and in ISO 12100-1.

## EC Declaration of Conformity

The EC Declaration of Conformity can be obtained on [www.se.com](http://www.se.com)

## Certification for functional safety

Compliance with a safety-related control system using the principles of IEC 61508, 60204 or the ISO 13849–1, as well as the IEC 62061 for process systems and machinery.

The defined safety function is:

- SIL-1 capability in compliance with IEC 61508 series Ed.2
- Performance Level **c** in compliance with ISO 13849–1
- *Compliant with Category 2 of International standard ISO 13849–1*

Also refer to **Safety function capability** Chapter in the ATH200 Safety Functions manual.

The safety demand mode of operation is considered in high demand or continuous mode of operation according to the IEC 61800-5-2 standard.

The certificate for functional safety is accessible on [www.se.com](http://www.se.com)

## Contact us

Select your country on [www.se.com/contact](http://www.se.com/contact).

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# Functional Safety and ATEX applications

## General

The variable speed drive ATH200 integrates the STO (Safe Torque Off) safety function which shuts off the motor torque safely. The use of the STO safety function allows the drive to be installed as a part of the safety-related electrical, electronic and programmable electronic control systems, dedicated to the safety of a machine or an industrial process.

The integrated safety function is compatible and certified following the information given in the Certification for Functional Safety section. It complies also with the EN 50495 (2010): Safety devices required for the safe functioning of equipment with respect to explosion risks.

The use of the STO safety function is required for the variable speed drive ATH200 to control and command motors installed in explosive atmospheres (ATEX).

The STO safety function is an ATEX certified function, according ATEX 94/9/EC directive and 2014/34/EU directive.

## Monitoring Of the ATEX Motor

The STO input(s) is (are) connected to the switching system which is embedded in the thermal sensor of the ATEX motor (or connected to the switching system of the control system if ATEX sensors of PTC type are used).

The variable speed drive ATH200 intended to be used to command and control asynchronous motors shall be installed only outside potentially explosive atmospheres for the protection of explosion-protected motors.

# Applications for explosive atmosphere (ATEX)

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# ATEX zones

## Classification

The European directive 1999/92/EC (also called ATEX 137, or directive for protection of workers) classifies the ATEX zones and the type of products that they are compatible with. The user should define the ATEX zone in which the ATEX motor will be installed.

This equipment has been designed to operate outside of any hazardous location. Only install this equipment in zones known to be free of a hazardous atmosphere.

### **⚠ DANGER**

#### **POTENTIAL FOR EXPLOSION**

Install and use this equipment in non-hazardous locations only.

**Failure to follow these instructions will result in death or serious injury.**

Different wiring diagrams for installation are suggested in this document. They are compatible with the use of motors in ATEX zones 1/21 or 2/22

The following table summarizes characteristics related to each ATEX zone

Atmosphere	Zone	Definition	Presence of explosive atmosphere per year
Gas	0	Explosive atmosphere is present continuously, for long periods or frequently due to malfunctions	> 1000 h
Dust	20		
Gas	1	Explosive atmosphere is likely to occur due to expected malfunctions	10...1000 h
Dust	21		
Gas	2	Explosive atmosphere is unlikely to occur or, if occurring, is likely to only be of short duration and not in normal duty	< 10 h
Dust	22		

**NOTE:** Neither electrical equipment nor motors can be installed in ATEX zone 0 or 20.

## General

The European directives 94/9/EC and 2014/34/UE (also called ATEX 95, or product directive) defines applicable requirements for ATEX products and requirements for procedure of certification.

OEMs, installers, users are responsible for the choice and the commissioning of the products they use in order to realize the ATEX protection of systems that they design or systems that they implement.

- The motor needs to be ATEX certified EX “d” and compatible for use in zone 1/21 or 2/22.
- The motor shall be equipped with thermal sensor(s) with embedded switching system ATEX certified, or shall be equipped with thermal sensor(s) ATEX certified, associated to a control unit (Level of protection intrinsic safety “i”), which is to be also ATEX certified.

**NOTE:** Usually, the control unit is designed to be used outside the hazardous ATEX zone. Then it is possible to install the control unit near the variable speed drive, outside the hazardous ATEX zone.

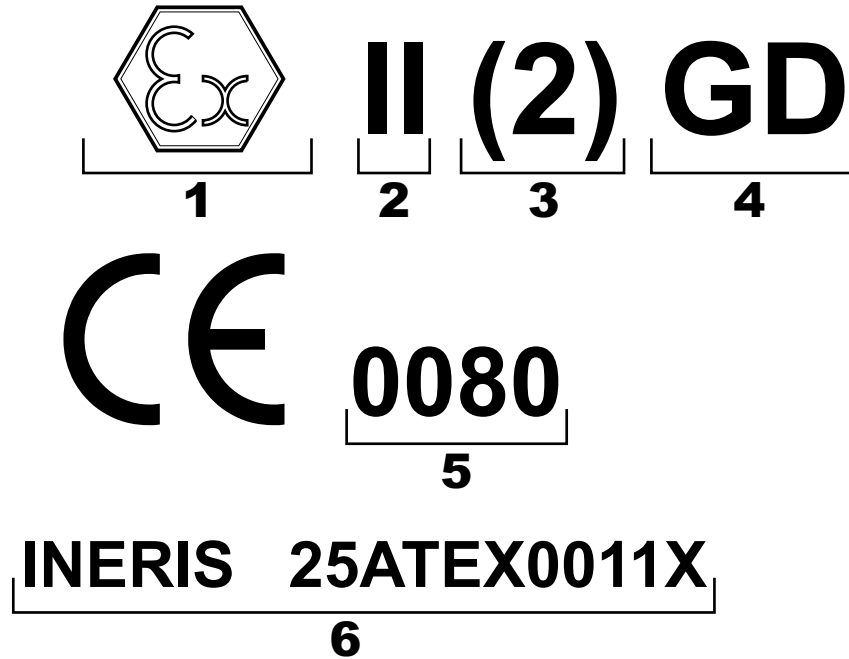
The switching system, embedded into the thermal sensor, or included into the control unit of the thermal protection of the ATEX motor, shall be connected to the STO input of the variable speed drive ATH200. When the excessive temperature of the ATEX motor is reached, the control system triggers the STO safety function. The electrical power of the motor is removed to help to ensure a temperature of the motor frame below the maximum temperature depending on the gas or the dust atmosphere in which the ATEX motor is installed.

When the ATEX application needs to apply the STO safety function, and prevent automatic restart, then a safety module (type Preventa) is to be used. The suggested wiring diagrams describe how the switching system, embedded into the thermal sensor or included into the control unit, is connected to the safety module. The output of the safety module must be connected to the STO input of the variable speed drive ATH200.

# ATEX Marking

## Identification

The variable speed drive ATH200, ATEX certified, can be recognized by the specific marking reproduced hereafter:



**1** Logo related to the identification of an ATEX product.

**2 II** relates to the use of products for ATEX application in surface industries. (ATEX applications for mines industries are prohibited)

**3 (2)** Parenthesis identifies the variable speed drive ATH200 as a product associated with the control & command of an ATEX motor installed in a hazardous zone. The number 2 identifies the ATEX motor as a product of category 2 for use in ATEX zones 1 or 21. Motors of category 3 for use in ATEX zones 2 or 22 are also covered by this marking.

**4 G** for Gas, is related to ATEX applications in atmospheres with explosive gas. **D** for Dust, is related to ATEX applications in atmospheres with a mixture of explosive dust.

**5 0080** is the identification number of the notified body INERIS, which has delivered the notifications for systems of production quality assurance of production lines for drives, in compliance with the standard EN 13980.

**6 INERIS 25ATEX0011X** is the identification code of the EC Type examination certificate issued by the notified body INERIS to demonstrate the compliance of the variable speed drive with the requirements of the ATEX 94/9/EC directive.

# Wiring Diagrams For ATEX Applications

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# General

## Requirements

Requirements provided by the ATEX standards for installation should be fulfilled. Also follow the requirements below:

- IEC 60079-14 Electrical installations design, selection and erection, for applications in atmospheres with explosive gas,
- local regulation, cabling rules for applications in atmospheres with presence of gas or dust.

## Wiring Diagrams Presentation

Schemes suggested in this document for installation and commissioning of variable speed drives ATH200 for ATEX applications are based on thermal sensors (for example a PTC sensor) embedded in the ATEX motor and an intrinsic safety "i" control unit. The control unit is a device which converts in a switching function the variation of the characteristic of a thermal sensor.

## ATEX Periodic test

The complete functional safety loop (which starts from the ATEX motor thermal sensor up to the STO safety function embedded in the drive), shall be activated at least once a year for preventive maintenance purposes, in order to check that the electrical power is always automatically removed from the motor in case of excessive temperature.

## Shielded Cables on I/O

### **⚠ WARNING**

#### **UNANTICIPATED EQUIPMENT OPERATION**

- Use shielded cables for all digital and analog I/O signals and communication signals.
- Ground cable shields at a single point.
- Route communication cables and I/O cables separately from power cables.

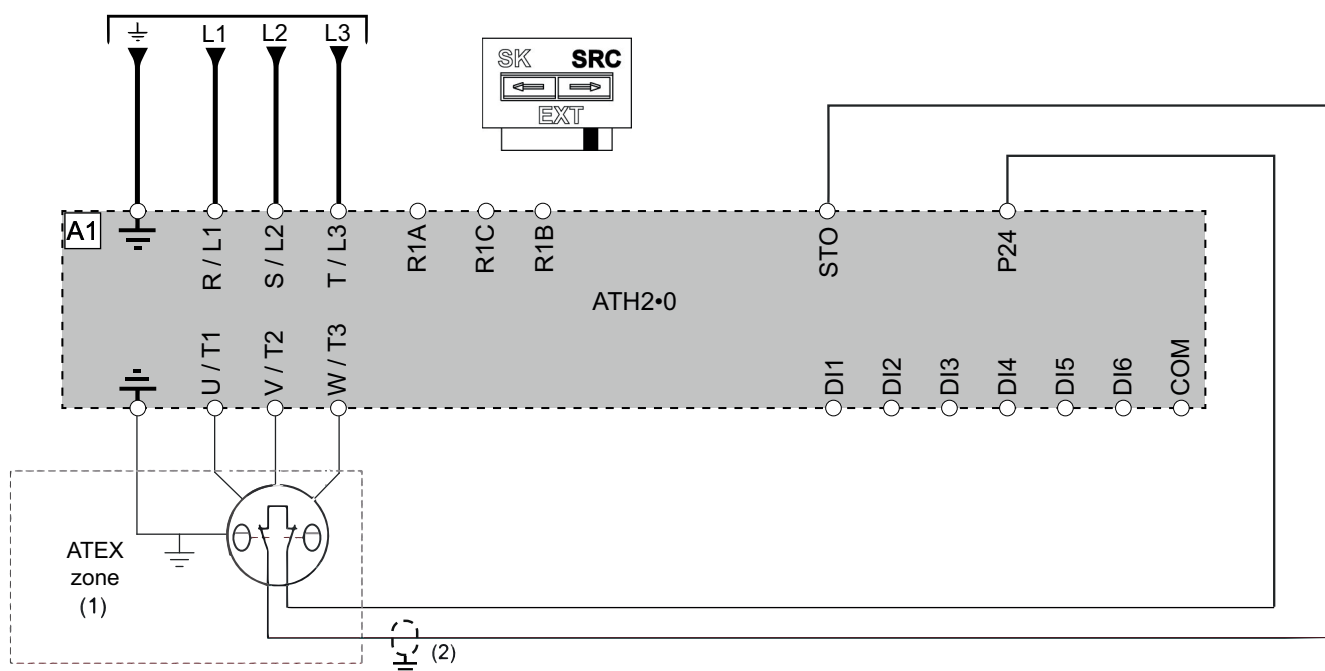
**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

# ATEX Installation Case 1: Single drive with motor thermal switch

## Description

- ATEX motor in Zone 1 or 21 or 2 or 22 (following wiring diagram).
- STO inputs used for thermal protection of the ATEX motor, SIL1 capability according to IEC 61508, stop category 0 according to IEC 60204-1 without protection against supply interruption or voltage reduction and subsequent rotation.
- Thermal protection of the ATEX motor by using an ATEX thermal switch.

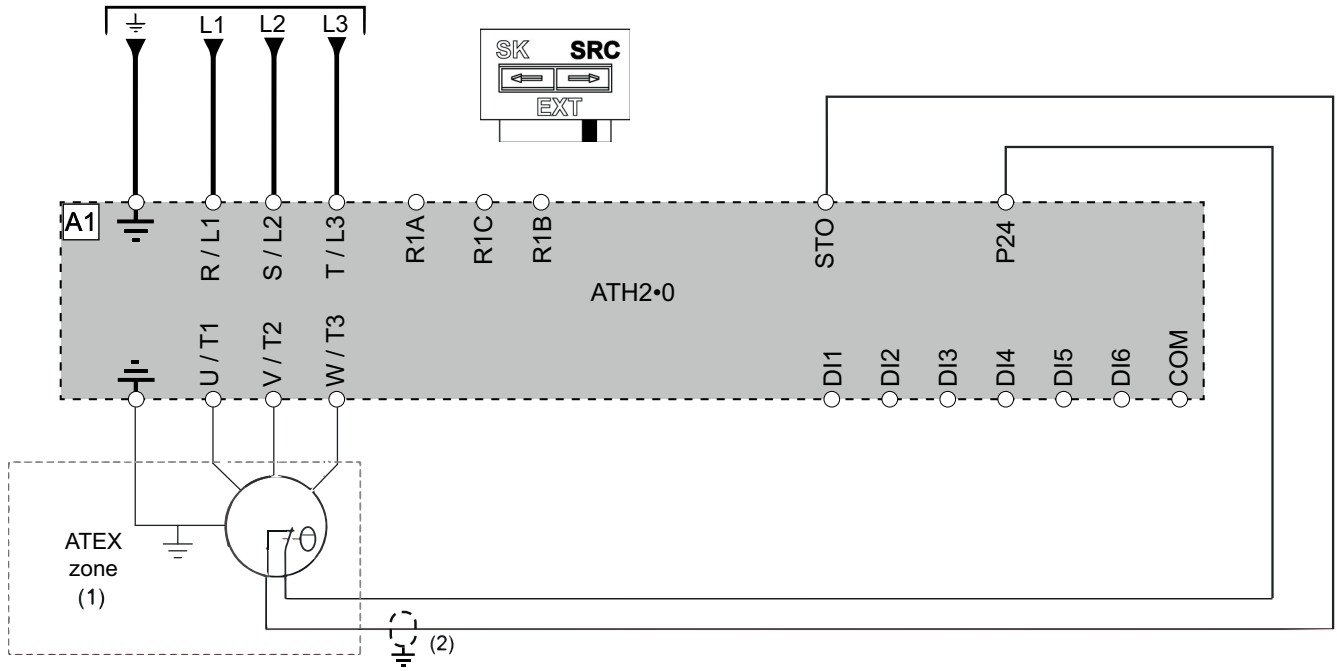
## Wiring Diagram For ATEX Zone 1 or 21



**(1)** ATEX Zone 1 or 21. ATEX Motor type “d” with embedded type “d” thermal switches. These thermal switches must fulfill the reinforced insulation according to IEC 61800-5-1.

**(2)** Cable and wiring following IEC 60079-14 standard. STO cables must be shielded and run apart from the supply cable.

## Wiring Diagram For ATEX Zone 2 or 22



**(1)** ATEX Zone 2 or 22. ATEX Motor type “d” with embedded type “d” thermal switch. This thermal switch must fulfill the reinforced insulation according to IEC 61800-5-1.

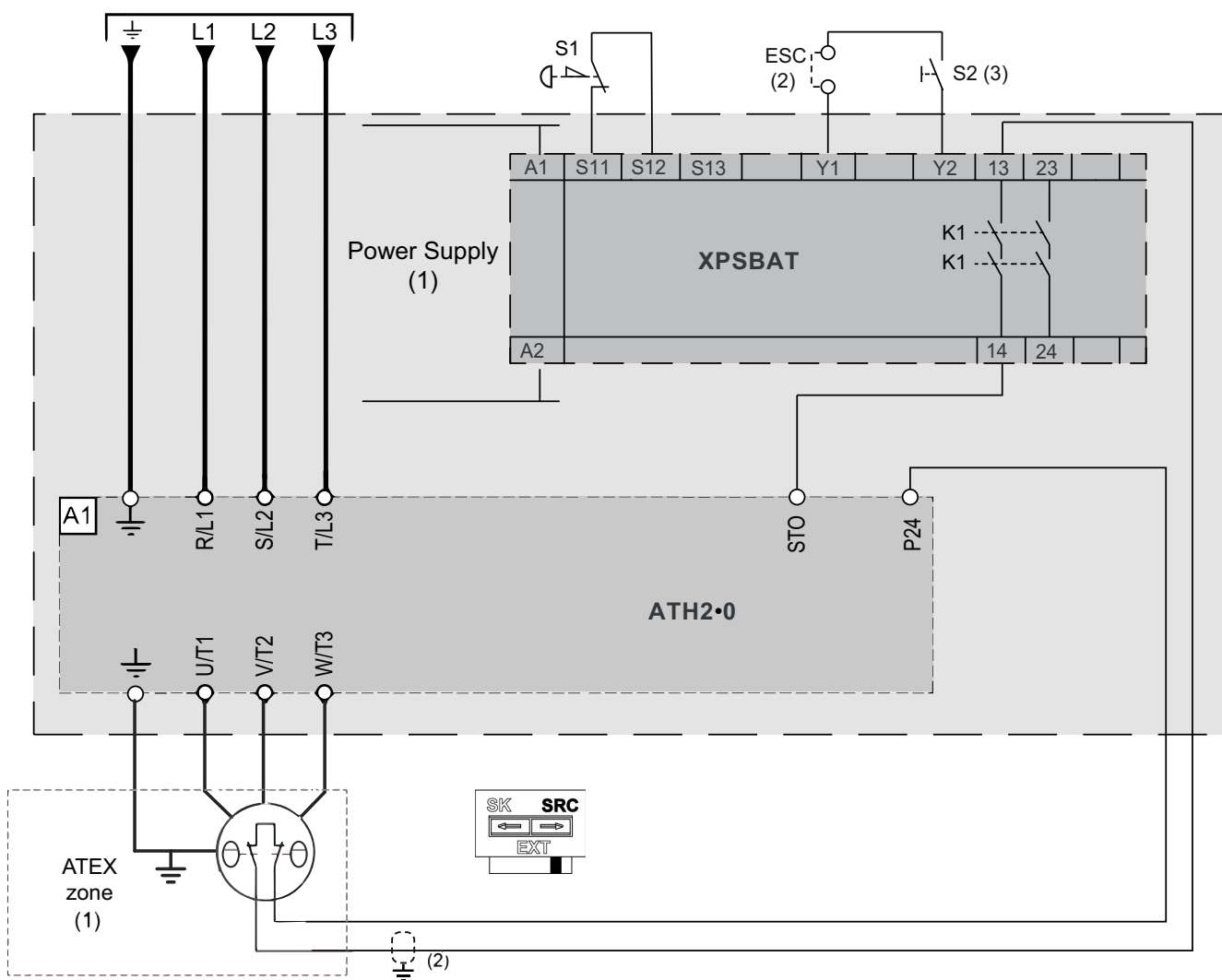
**(2)** Cable and wiring following IEC60079-14. STO cables must be shielded and run apart from the supply cable.

# ATEX Installation Case 2: Single drive with motor thermal switch and with Safety Module Type Preventa XPSBAT

## Description

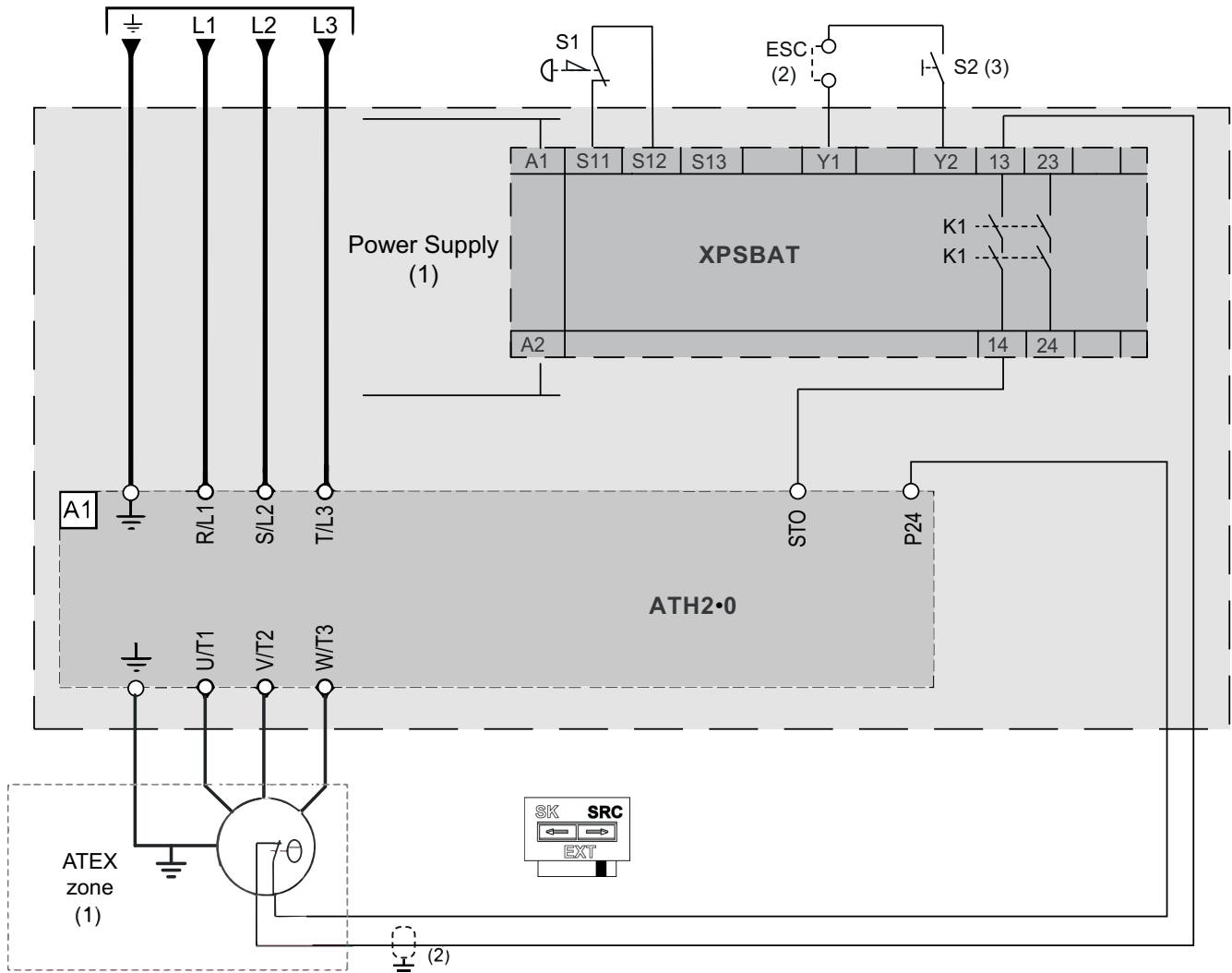
- ATEX motor in Zone 1 or 21 or 2 or 22 (following wiring diagram).
- STO input used for thermal protection of the ATEX motor, SIL 1 capability according to IEC 61508 and for functional safety SIL3 capability according to IEC61508, stop category 0 according to IEC 60204-1, and category 3 PL e according to ISO 13849-1.
- Thermal protection of the ATEX motor by using an ATEX thermal switch.

## Wiring Diagram For Zone 1 or 21



1. Ex Zone 1 or 21. ATEX Motor type “d” with embedded type “d” thermal switches. These thermal switches must fulfill the reinforced insulation according to IEC 61800-5-1.
2. Cable and wiring following IEC 60079-14 standard. STO cables must be shielded and run apart from the supply cable.
3. Refer to the XPSBAT Safety Module User Manual EIO0000004256 for more information on the power supply.
4. External Start Condition **ESC** is used to add external starting conditions.
5. On power-up or after an emergency stop, rearm the XPSBAT safety module using push-button S2.

## Wiring Diagram For Zone 2 or 22



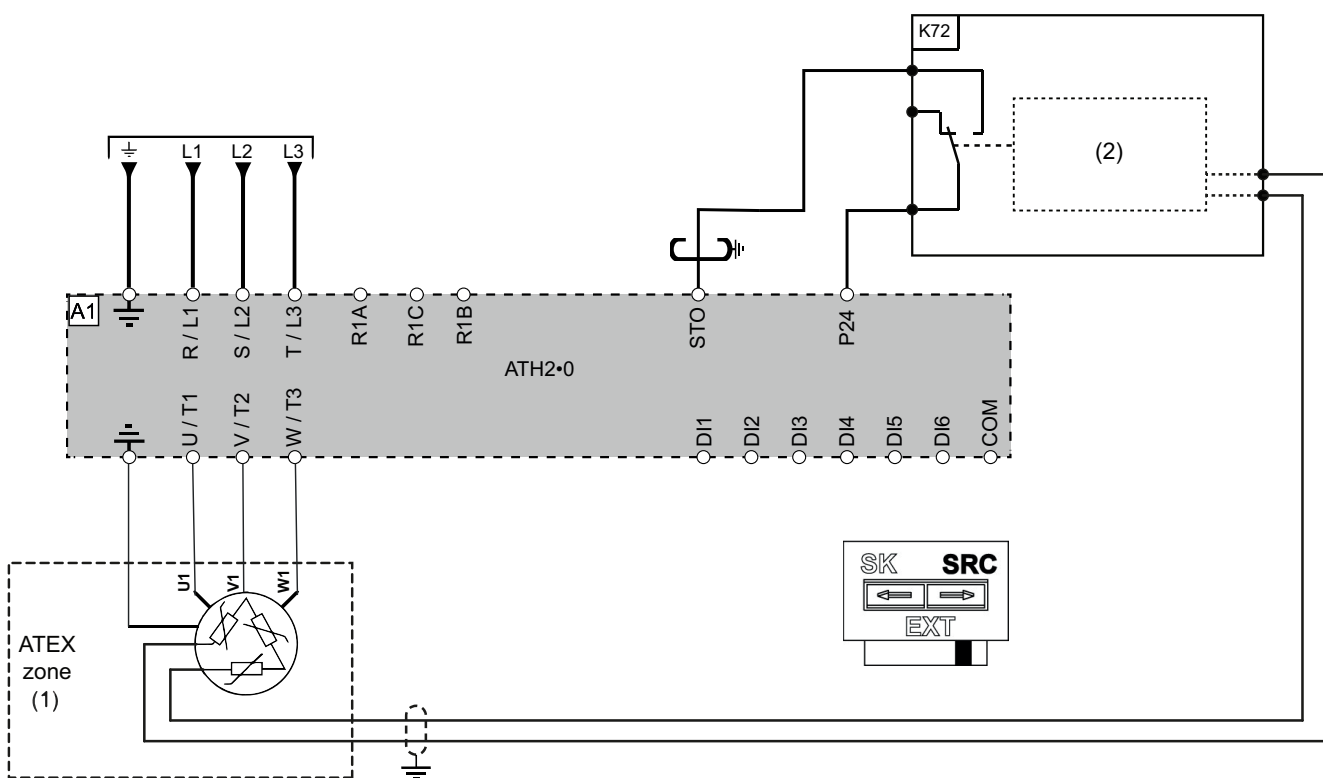
1. Ex Zone 2 or 22. ATEX Motor type “d” with embedded type “d” thermal switches. These thermal switches must fulfill the reinforced insulation according to IEC 61800-5-1.
2. Cable and wiring following IEC 60079-14 standard. STO cables must be shielded and run apart from the supply cable.
3. Refer to the XPSBAT Safety Module User Manual EIO0000004256 for more information on the power supply.
4. External Start Condition **ESC** is used to add external starting conditions.
5. On power-up or after an emergency stop, rearm the XPSBAT safety module using push-button S2.

# ATEX Installation Case 3: Single drive with PTC and control unit

## Description

- ATEX motor in Zone 1 or 21 or 2 or 22
- STO inputs used for protection of the ATEX motor sensor only, SIL1 capability according to IEC 61508, stop category 0 according to IEC 60204-1 without protection against supply interruption or voltage reduction and subsequent rotation.
- Thermal protection of the ATEX motor by using an ATEX thermal sensor (PTC type, without embedded switching system), and a control unit for the PTC conversion, including the switching system.

## Wiring Diagram



**(1)** ATEX Zone 1 or 21 or 2 or 22 with at least 1 thermal sensor PTC type

**(2)** ATEX certified Control unit conversion / insulation / switching system with Level of protection intrinsic safety "i".

**(K72)** ATEX certified PTC relay



# Glossary

## O

### **OEM:**

Original Equipment Manufacturer

## P

### **PTC:**

Positive Temperature Coefficient. PTC thermistor probes integrated in the motor or application to measure its temperature

## S

### **STO:**

Safe Torque Off: No power that could cause torque or force is supplied to the motor

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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

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