

# Orientalmotor

Built-In Battery-Free Absolute Sensor

## The $\alpha$ STEP AZ Series is Now “Functional Safety\*” Certified.

\* Incorporates the STO (Safe Torque Off) function

This certification simplifies the handling of safety systems.

It makes it possible to reduce peripheral equipment, simplifies wiring and saves space.



Certification Body  
TÜV SÜD Product Service GmbH

### SIL3, PL-e Functional Safety\* Certification Has Been Obtained

\* Incorporates the STO (Safe Torque Off) function

Applicable Standards	Safety Level
IEC 61800-5-2, EN 61800-5-2	SIL 3
IEC 61508-1, EN 61508-1	
IEC 61508-2, EN 61508-2	
IEC 62061, EN 62061	SILCL 3
ISO 13849-1, EN ISO 13849-1	PL e (Category 3)

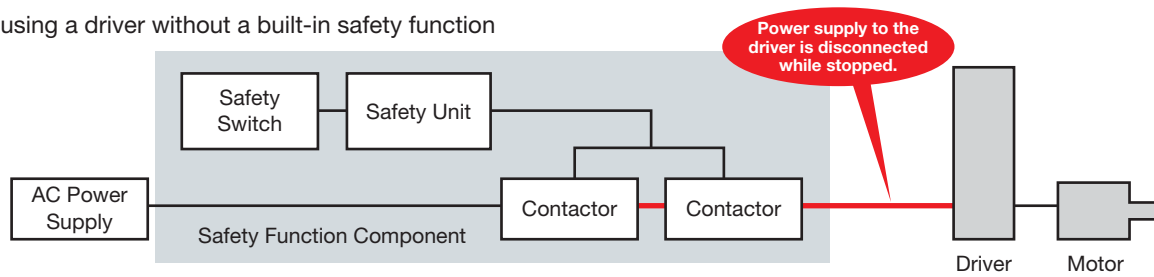
### Applicable Products

AC Input	Built-in Controller Type
	Pulse Input Type with RS-485 Communication
	Pulse Input Type
	EtherCAT®
	EtherNet/IP®
	PROFINET

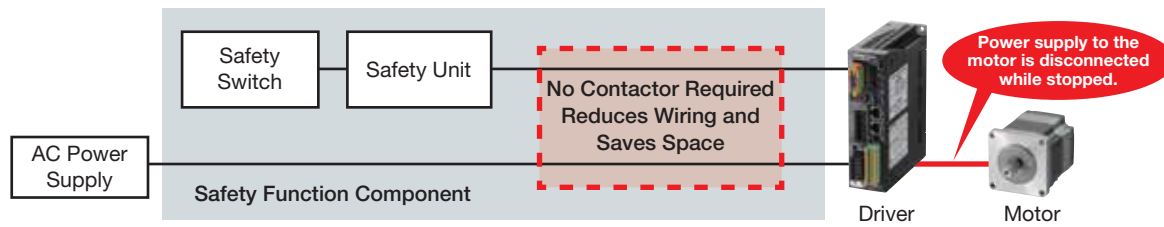
## Drivers with Built-In Safety Functions Simplify Components

A driver with a built-in safety function can prevent unintended operation, which eliminates the need for contactors. This allows for to reduced equipment wiring and saved space.

- When using a driver without a built-in safety function



- When using the **AZ** Series (Drivers with a built-in safety function)

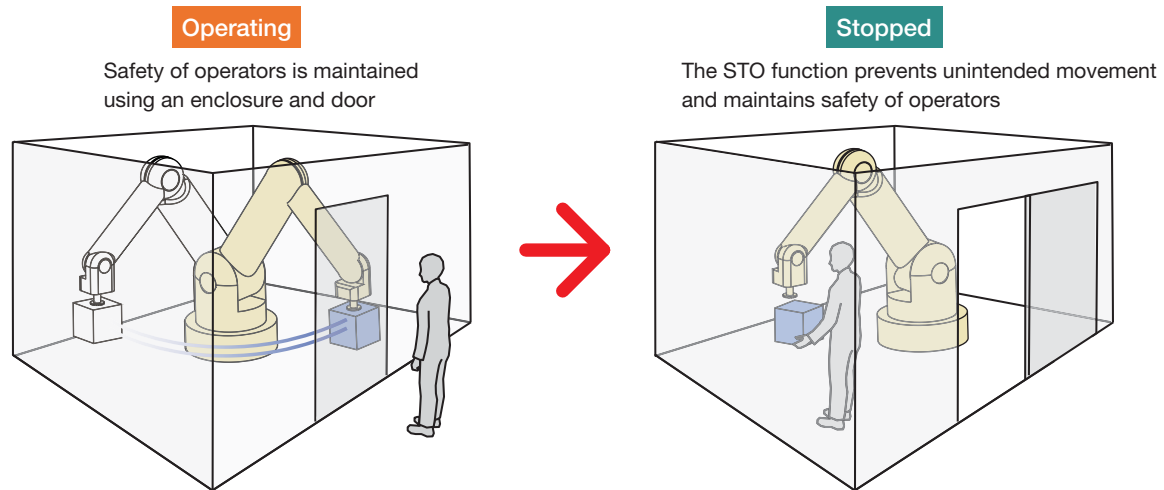


## The STO Function Prevents The Unintended Start of The Motor while It Is Stopped

Certified products have an STO (Safe Torque Off) function, which disconnects the supply of power to the motors.\*

By disconnecting the power supply to the motor, the risk posed by dangerous movement of the equipment's moving parts is reduced.

\*Do not use during operation.



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