



## New CS AM series safety modules

For speed and motor  
standstill detection



Passion for Quality



## DESCRIPTION

# New CS AM series safety modules

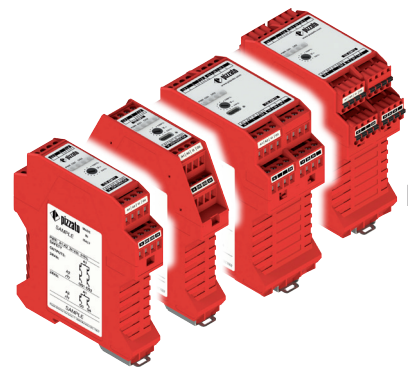
Key features of the CS AM series safety modules:

- **Motor standstill and rotation speed detection in a single module (CS AM3•);**
- **Measurement of the motor rotation speed. It is possible to detect any overload and rotor lock by adding a single inductive sensor (CS AM2• - CS AM3•);**
- **Motor standstill detection (CS AM1• - CS AM3•);**
- **Detection of the motor's rotation direction (CS AM2• - CS AM3•);**
- **Programmable modules with USB-C port (CS AM••P);**
- **Electronic safety outputs OSSD (CS AM•1) or relay (CS AM•2 and CS AM•3);**
- **Choice among different sensitivity ranges of the motor standstill threshold (CS AM1• - CS AM3•);**
- For safety applications up to "Maximum SIL 3"/PL e;
- 10 levels of detection sensitivity of the residual voltage on the phases;
- Galvanic separation between the control circuit and the measuring circuit;
- Possibility of connecting single-phase and three-phase motors to the measuring circuits;
- EC type examination certificate;
- 22.5 or 45 mm wide housing.



**CS AM3•**

Motor standstill and speed detection



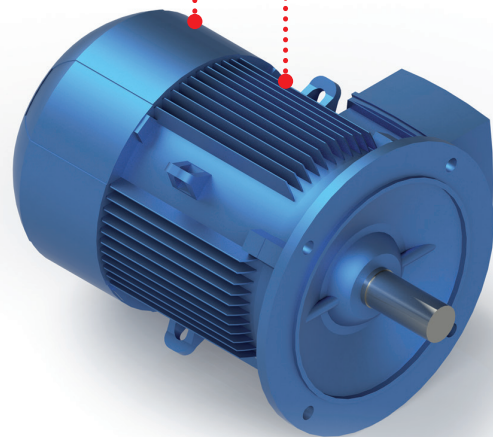
**CS AM1•**

Motor standstill detection



**CS AM2•**

Motor speed detection



CS AM Safety modules									
Product code	Supply voltage	Detection			Output contacts	Housing size	Type of connection		
		Motor standstill	Rotation speed	Direction of rotation			screw terminals	connector with screw terminals	connector with spring terminals
CS AM11••••	24 Vdc	■			2 OSSD	22,5 x 114 mm	■	■	■
CS AM12••••	24 Vdc	■			3 NO	45 x 114 mm	■	■	■
CS AM21••••	24 Vdc		■	■	2 OSSD	22,5 x 114 mm	■	■	■
CS AM22••••	24 Vdc		■	■	3 NO	45 x 114 mm	■	■	■
CS AM23••••	24 Vdc		■	■	3 NO + 3NO	45 x 114 mm	■	■	■
CS AM31••••	24 Vdc	■	■	■	2 OSSD	22,5 x 114 mm	■	■	■
CS AM33••••	24 Vdc	■	■	■	3 NO + 3NO	45 x 114 mm	■	■	■

All the safety modules of the CS AM••P series are programmable through the software **CS AM Configurator**, entirely designed by Pizzato Elettrica, available for free download.

The software is divided into three sections: Project, Setting and Monitor.

### Project

The section **Project** includes the project name, the author name, the creation date and possible notes. It is also possible to download previously saved configurations. →

### Setting

The section **Setting** sets the parameters for motor standstill detection and minimum and maximum speed thresholds and enables the detection of the motor rotation direction.

### Monitor

The section **Monitor** shows and saves in real time the status of the module outputs, the residual voltage detected on the phases, the speed and direction of motor rotation.

In this section, it is possible to set the desired function for each input and output of the module.





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**Pizzato Elettrica s.r.l.**

via Torino, 1 - 36063 Marostica (VI) Italy

Phone: +39 0424 470 930

E-mail: [info@pizzato.com](mailto:info@pizzato.com)

Website: [www.pizzato.com](http://www.pizzato.com)

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