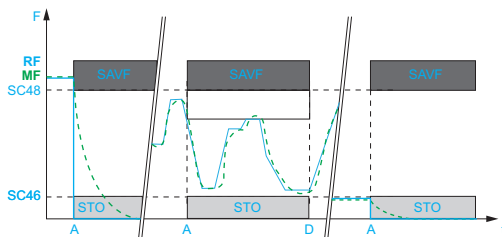
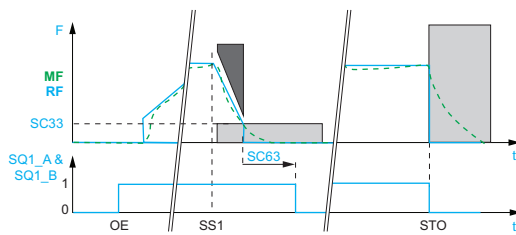


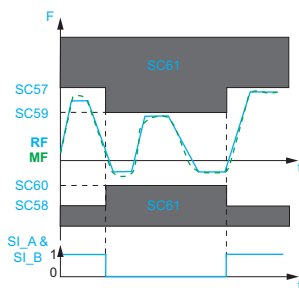
Activation of the SS1 function



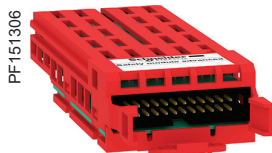
Activation of the SLS function



Activation of the SBC function



Activation of the SMS function



VW3A3802 Safety module



VW3M8820

Presentation

The Safety Module Advanced allows ATV340 variable speed drives to access additional Safety functions.

This creates a complex functional Safety device that helps to provide installation monitoring.

The Safety Module Advanced optimizes the overall cost of the installation by avoiding the need for additional external devices, while conforming to international safety standards. As a result, wiring is cheaper and quicker.

It also improves performance during maintenance by reducing machine or installation downtime and helps to ensure work is carried out in compliance with safety standards.

It includes the following Safety functions compliant with standard IEC/EN 61800-5-2.

- Safe Stop 1 (SS1)
- Safe Limited Speed (SLS)
- Safe Brake Control (SBC)

In addition, the Safety Module Advanced includes two additional Safety functions.

- Safe Maximum Speed (SMS)
- Guard Door Locking (GDL)

Safety functions

Safe Stop 1 (SS1) function

The SS1 integrated Safety function causes a category 1 safe stop.

This function monitors deceleration according to a dedicated deceleration ramp and safely shuts off the torque once standstill has been achieved.

Safe Limited Speed (SLS) function

The SLS integrated Safety function can be initiated by activating Safety function inputs. This function helps to prevent the motor from exceeding the specified speed limit. If the motor speed exceeds the specified speed limit value, safety function STO is triggered.

Safe Brake Control (SBC) function

The SBC integrated Safety function provides a safe output signal to command an external relay in order to control external brakes.

Safe Maximum Speed (SMS) function

This function helps to prevent the speed of the motor from exceeding the predefined speed limit.

- Two different speed limits can be defined and can be selected by logic inputs.
- If the motor speed exceeds the predefined speed limit value, Safety function STO is triggered.

Once the SMS function is configured, it is continuously active.

Guard Door Locking (GDL) function

The GDL function allows the guard door lock to be released when the motor power is turned off.

References

Description	Power supply	Cable length	Unit reference	Weight
	V	m/ft		
Safety Module Advanced	24 V $\overline{\text{DC}}$	–	VW3A3802	–
Cordset	–	3/ 9.84	VW3M8801R30	0.020/ 0.040
Preassembled with 2 x 24-way female connectors (Safety module end) and a free end				
Cordsets	–	1.5/ 4.92	VW3M8802R15	0.020/ 0.040
Preassembled with 2 x 24-way female connectors				
	–	3/ 9.84	VW3M8802R30	0.150/ 0.330
Safety module distribution unit	–	–	VW3M8810	–
Connection terminal adapter for Safety module, for easy wiring of several Safety modules in the control cabinet (equipped with 5 connectors)				
Removable connector	–	–	VW3M8820	–
To connect an additional Safety module distribution unit				

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