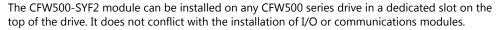


WEG CFW500 Safety Module

The CFW500-SYF2 is a safety module capable of providing STO (Safe Torque Off) and SS1-t (Safe Stop 1 Time Controlled) safety operations.

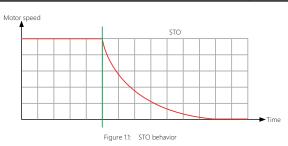
- The STO function disables torque-generating power to the motor. This method of disabling the motor is very reliable against unexpected motor starts, even under a fault condition. When activated, the STO safety function blocks power from the drive's output electronic circuit, causing the motor to coast to a stop.
- The SS1-t function also disables torque-generating power to the motor but waits a predetermined period of time to allow the drive to impose a deceleration ramp before removing torque. This is especially useful in situations where inertial loads need to be decelerated before torque is removed from the motor.





| WEG CFW500 Safety Module | | | | | | | |
|--------------------------|-------------|---------|-----------------|--|--|-----------------|-----------------|
| WEG MAT # | Model # | Price | Description | Features/Specifications | | Drawing Link | CFW500 Drive |
| <u>15560296</u> | CFW500-SFY2 | \$72.00 | Safety function | Safety functions | Safe torque off (STO) according to IEC/EN 61800-6-2 or stop category 0 according to IEC/EN 60204-1 Safe stop 1 time controlled (SS1-t) according to IEC/EN 61800-6-2 or stop category 1 according to IEC/EN 60204-1 | _ | All |
| | | | | Safety category | SIL 3, per IEC 61508 / IEC 62061 / IEC 61800-5-2 PL e, category 4, as pwer EN ISO 13849-1 | | |
| | | | | PFD _{avg} | < 2.74 x 10 ⁻⁴ | | |
| | | | | PFH (1/h) | <3.13 x 10 ⁻⁹ | | |
| | | | | MTTF _d (y) | > 1600 years | | |
| | | | | DC _{avg} | 93% | | |
| | | | | Proof test interval | 20 years | | |
| | | | | Response/reaction time | <100ms | | |
| | | | | OSSD test pulses | Pulse duration: <1ms Interval between pulses on same channel: >8ms Interval between pulses on different channels: >4ms | | |
| | | | | Safety input signals | ON: 15VDC – 30 VDC | | |
| | | | | Maximum discrepancy time between safety input signals | 1s | | |
| | | | | Safety power supply | +24VDC ± 15% SELV type according to IEC 60950-1 PELV type according to IEC 60204-1 | | |





Motor speed

SSI-t STO

P0108

Figure 1.2: SSI-t behavior

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