

Safely-limited speed (SLS)

- Safety goal

Table 1 Safety goal for the Safely-limited speed

Safety Function	Safely-limited speed (SLS)
Safe State	STO state: Turn off the torque applied to the motor. SOS state: Robot stop state monitoring.
Mean time to dangerous failure (MTTFd)	10 years < MTTFd < 30 years
Diagnostic Coverage Average (DCave)	DCave > 90%
Common Cause Failure (CCF)	Score : 65 or better
Safety function Response time (SRT)	930ms(Max)

- Function description

This function monitors the motor speed of each axis and turns the safe state when the motor speed exceeds the specified limit.

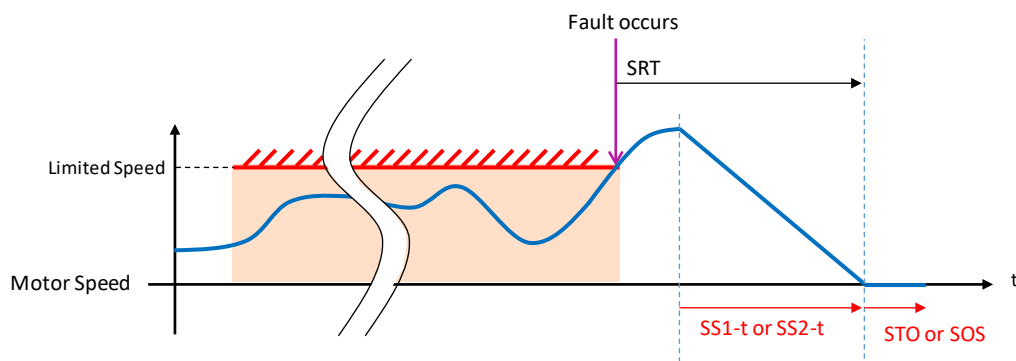


Fig. 1 Safety function response time of Safely-limited speed