

Safe output control (SOC)

- Safety goal

Table. 1 Safety goal for the Safely-limited torque

Safety Function	Safely-limited torque (SLT)
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 > 60 %
Common Cause Failure (CCF)	Score : 65 or better
Safety function Response time (SRT)	930ms(Max)

- Function description

Once the Safe output control (SOC) turns on, the safety output signals (STO state output) turn off. The SOC function works according to the same request (STO request signal) as the STO function.

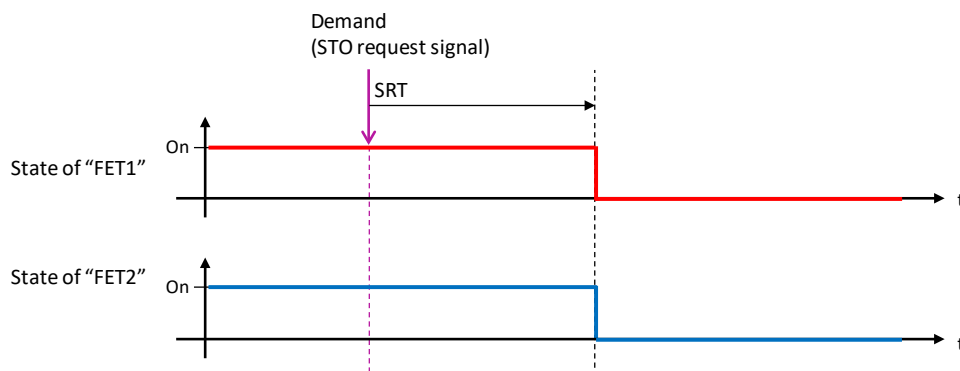


Fig. 1 Safe output control Reaction Time