A new safety option card provides Safe Torque Off functionality via the built-in EtherNet/IP port for the PowerFlex® 755, PowerFlex 755TL, PowerFlex 755TR and PowerFlex 755TM drives.

The ability to integrate the safety functions over EtherNet/IP provides the opportunity to reduce hardware and installation costs while improving productivity. The integration of the safety and standard control systems provides operators and maintenance personnel with visibility to all machine events – including safety events. This enables a quick response that allows the machine to return to full production faster. The Safe Torque Off option module has a SIL3, PLe, CAT 3 rating.

For flexibility and simplified machine design changes, the option module can be used for both hardwired and networked Safe Torque Off applications.

Features and Benefits
- Designed for the PowerFlex 755 and PowerFlex 755T drives
- Hardwired or networked solution
- Provides networked Safe Torque Off over EtherNet/IP
- Removes rotational power to the motor without removing power from the drive
- Easily integrates with GuardLogix® controllers
- Rated SIL3, PLe, CAT 3
- Requires Studio 5000® version 30 and higher
Networked Safety Helps Streamline Machine Design

Benefit from the ability to integrate safety into your control system. Networked Safe Torque Off provides the same benefits as hardwired Safe Torque Off – plus the ability to simplify your machine design and minimize equipment redundancies.

- A single GuardLogix controller can be used for both safety and standard control
- Reduce the need to write and coordinate multiple programs on different controllers, to simplify application programming and reduce training and support costs
- Fewer components mean smaller panel enclosures, saving money on control cabinets and floor space
- The integration of the safety and standard control systems provides operators and maintenance personnel with visibility to all machine events – including safety events. This enables a quick response that allows the machine to return to full production
- Safety and non-safety functions share the same EtherNet/IP network
- More safety tags are seen in controller
  - Safe off condition
  - Safety fault condition
  - Connection status
  - Reset Requirement

Networked Safe Torque Off Setup example for SIL3/Pile Cat. 3

GuardLogix® Integrated Safety System Controller

PowerFlex 755 with Networked Safe Torque Off

PointGuard I/O™

Stratix 5700™ Industrial Ethernet Switch