

## XTSE safety contactors

Motor control applications



# Enhanced safety for machinery control



Eaton XTSE safety contactors are designed with the OEM and end customer in mind. Providing enhanced levels of safety, XTSE contactors integrate to applications to not only achieve the highest safety circuits, but provide additional levels of safety that reinforces end-user safety. Eaton XTSE contactors stand out, and so do our customers who use them.

## Features

### Safe

- Safe status monitoring of the contactor (inspection window); manual activation is not possible
- Highlighted in yellow (RAL1004)—the internationally recognized color for safety to make your circuit stand out
- Eligible to be used for Emergency-stop applications with controlled start (Category 4)
- Integrated contactor and auxiliary contact design
- SUVA certified

### Reliable

- Up to 1.3/1.7 million switching cycles until 10% of tested and worn components have failed
- Double box terminals for secure wire termination
- Advanced coil design
- Interlocking opposing contacts, in line with IEC® 60947-5-1, Annex L
- Mirror contacts in line with IEC 60947-4-1, Annex F

### Compact

- Industry-leading coil size
- Integrated suppressor kit
- Compatible with standard **XT** accessories

**EATON**

Powering Business Worldwide



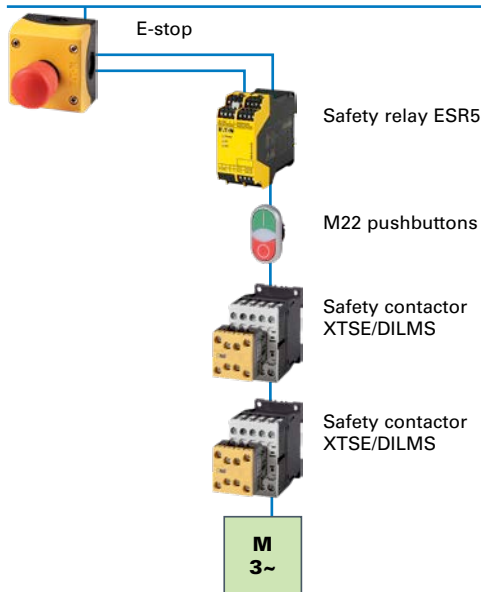
**suva**

# Safety applications

## Example applications and safety-related characteristics

### Sample application

Emergency Stop Dual Channel with Safety Relay ESR5 (Category 4, Performance level e, SIL Rating 3).



### Safety-related characteristics

Independent of the application, safety-related characteristics of the components are necessary to calculate the Performance Level or Safety Integrity Level. Tools like SISTEMA from the Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA) provide assistance in the evaluation of safety-related control components and simplifies risk assessment analysis. Applicable values for safety contactors are B10/ B10d.

Eaton safety contactors provide up to 1.3/1.7 million switching cycles until 10% of tested and worn components have failed.

Safety characteristics	Level				
Cat	B	1	2	3	4
PL	a	b	c	d	e
SIL	1	2	3		

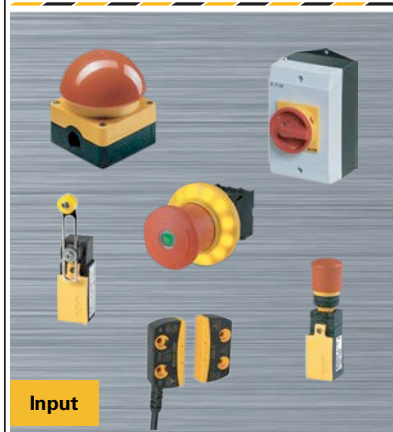
Type	EN ISO 13849-1 B10d (switching cycles)	EN 62061 B10d (switching cycles)
XTSE007B-012B	1,782,229	1,336,672
XTSE018C-032C	966,617	724,963
XTSE040D-065D	1,341,161	1,005,871
XTSE080F-095F	1,058,707	772,856
XTSE115G-150G	1,705,268	1,278,856



## Safety Technology

Control the unexpected

### Fast and secure detection



### Safe monitoring and processing



### Reliable shutdown



**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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