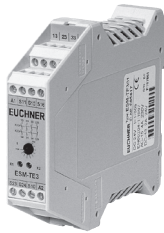


## Contact expansion ESM-ES..



- ▶ Usage up to category 3 according to EN ISO 13849-1
- ▶ LED status indicators
- ▶ Control using safety relays
- ▶ 3 redundant time-delayed safety contacts
- ▶ Time-delay range between 1 s and 30 s
- ▶ Fixed time delay of 0.5 s optional
- ▶ 1 auxiliary contact
- ▶ Earth fault/ground fault monitoring can be selected



### Relay outputs

The outputs are electrically decoupled and of redundant design.

### Connection option

By using suitable wiring the following function can be selected:

- ▶ Earth fault/ground fault monitoring to detect short circuits between the connection cables and earth or ground and to shut down the outputs or prevent relay starting if necessary.

### Time-delayed shutdown

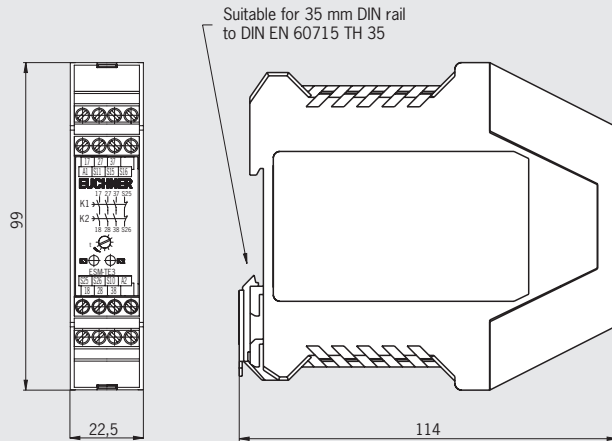
The release time for the time-delay contacts can be set as required using a potentiometer on the safety relay.

## Contact expansion ESM-ES..

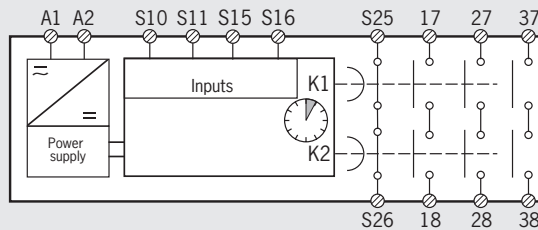


Cat. 3 STOP 1

### Dimension drawing



### Block diagram



### Technical data outputs

Parameter	Value			
Min. switching current at DC 24 V	5 mA			
Switching voltage max.	DC 50 V / AC 250 V			
Utilization category * According to EN 60947-5-1	<b>U<sub>e</sub></b>	<b>I<sub>e</sub></b>	<b>Σ I<sub>e</sub></b>	
	AC-12	250 V		6 A
	AC-15	250 V		4 A
	DC-12	24 V		1.25 A
	DC-13	24 V	2 A	10.5 A

U<sub>e</sub> = switching voltage

I<sub>e</sub> = max. switching current per contact

Σ I<sub>e</sub> = max. switching current on all safety contacts (cumulative current)

\* See page 26 for information about the utilization category

### Ordering table

Series	Version	Outputs	Time-delay	AC/DC 24 V	AC 115 V	AC 230 V
ESM	TE Contact expansion	3 NO + 1 NC time-delayed	Adjustable 1 s ... 30 s	<b>085617</b> ESM-TE301	<b>085618</b> ESM-TE302	<b>085619</b> ESM-TE303
			Fixed 0.5 s	<b>097223</b> ESM-TE301-05S	-	-