

#### Single Phase Control Transformer Series ETK/ESK

- Explosion protection to
  - CENELEC
  - IEC
- Can be used in Zone 1 and Zone 2
- Rated voltages: primary to 660 V, secondary to 220 V
- Power rating up to 1200 VA


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Series ETK and ESK transformers are used as control or isolating transformers to EN 60 204 (VDE 0113).

The ESK isolating transformers work with a secondary protective voltage of 42 V. The transformers are suitable for fitting in EEx e enclosures.

# Zone 1 and Zone 2

### Selection table

Version	Description	Ordering code		Weight [kg]	
		Control transformers	Isolating transformers		
 ETK/ESK	Rating size	100 VA 200 VA 400 VA 550 VA 1200 VA	ETK 100 ETK 200 ETK 500 ETK 750 ETK 1600	ESK 100 ESK 200 ESK 500 ESK 750 ESK 1600	3,3 4,9 8,1 10,8 16,0
	Specify with order:	primary/secondary voltages			

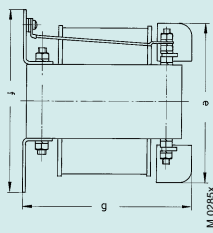
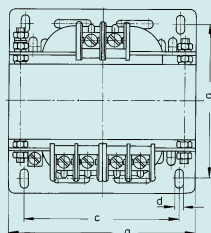
### Technical data

Explosion protection	EEx e II T4
Test certificate	PTB Nr. Ex-84/2025 U
Primary voltage	100 V ... 660 V, AC with $\pm 5\%$ tap
Secondary voltage	12 V ... 220 V, AC (Isolating transformers up to 42 V, AC)
Frequency	50/60 Hz
Rating	100, 200, 400, 550, 1200 VA
Short-circuit protection (primary)	as PTB certificate
Overload protection (secondary)	as PTB certificate
Ambient temperature	-20° C ... +40° C
Note	The transformers must have back-up fuses on both primary and secondary sides

Control transformer	Rated input voltage	Short-circuit protection (primary)	Overload protection (secondary)	Required area (in enclosure)
ETK 100	110 V 220 V 380 V 660 V	1,4 A 0,63 A 0,5 A 0,25 A	10 A ... 0,5 A	$\geq 2,5$ l
ETK 200	110 V 220 V 380 V 660 V	2,5 A 1,6 A 1 A 0,5 A	16 A ... 1 A	$\geq 5,0$ l
ETK 500	110 V 220 V 380 V 660 V	4 A 2 A 1,25 A 0,63 A	34 A ... 4 A	$\geq 5,0$ l
ETK 750	110 V 220 V 380 V 660 V	8 A 4 A 1,6 A 1 A	25 A ... 3 A	$\geq 18,5$ l
ETK 1600	110 V 220 V 380 V 660 V	16 A 10 A 6 A 3 A	100 A ... 6 A	$\geq 32$ l

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### Dimensions, all dimensions in mm – subject to alteration



Dimensions	a	b	c	d	e	f	g
ESK/ETK 100	105	64	84	5	95	80	95
ESK/ETK 200	120	100	100	6	102	115	105
ESK/ETK 500	135	100	100	6	123	120	120
ESK/ETK 750	163	100	150	7	135	127	140
ESK/ETK 1600	174	120	150	7	162	146	145

ETK/ESK Control/Isolating transformers