



## Transformers

### Applications



Going from supplying power to a bell circuit, to supplying power to the control circuit of impulse switches, relays or contactors for the control of lighting, heating, etc.

### Features

Safety transformers have short-circuit protection and continuous nominal power. Bell transformers are recommended for intermittent use at the nominal power declared (50% for continuous use). Full power available at all secondary voltages. The safety terminals are equipped with captive Pozidriv screws and have IP20 protection degree.

### Function

Reducing the voltage to a very low (safety) voltage used mainly as control-voltage in order to reduce the risk of electrocution due to environmental circumstances (i.e. high degree of humidity like outdoors, in a swimming pool complex, etc.).

### Standards

IEC 61558-1-2-6: Safety transformer  
IEC 61558-1-2-8: Bell transformer

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### Performance

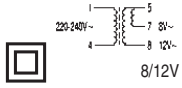
	Bell transformer	Safety transformer
Nominal primary voltage and frequency	230V 50Hz / 240V 60Hz	230V 50Hz / 240V 60Hz
Secondary voltage at nominal primary voltage	8 or 12V	12 or 24V
Maximum secondary voltage at zero load	1.5xUn sec.	1.05xUn sec.
Minimum secondary voltage at nominal load	0.85xUn sec.	1xUn sec.
Maximum load	Nominal power	Nominal power
Short-circuit protection	PTC <sup>(1)</sup>	PTC
Operating temperature	-20...+40°C	-20...+40°C
Isolation voltage	4kV	4kV
Protection degree	IP 20	IP 20
Screw	Pozidriv 1	Pozidriv 1
Terminal capacity: min	1x1mm <sup>2</sup>	1x1mm <sup>2</sup>
max	1x16mm <sup>2</sup> or 2x6mm <sup>2</sup>	1x16mm <sup>2</sup> or 2x6mm <sup>2</sup>

(1) Except 666999 - protection by construction

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#### Bell transformer

Output power	Secondary voltage	Primary voltage	Number of modules	Cat. No.	Ref. No.	Pack.
5VA	8/12V	220...240V	2	KTB5	666995	1
15VA	8/12V	220...240V	2	KTB15	666994	1
30VA	12/24V	220...240V	2	KTB30	666999	1

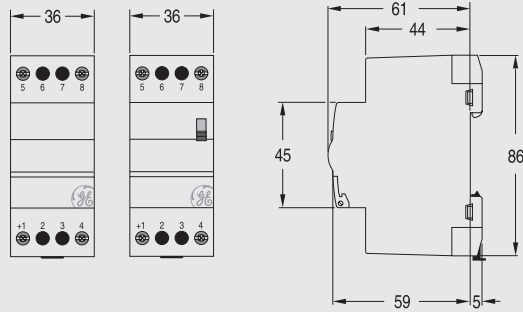


#### Safety transformer

25VA	12/24V	220...240V	4	KTS25	666996	1
40VA	12/24V	220...240V	4	KTS40	666997	1
63VA	12/24V	220...240V	6	KTS63	666998	1



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