

SHORT-CIRCUIT INDICATOR TYPE VE

panel-mounted / surface-mounted

General description

The short-circuit indicator type VE can be used in radial networks with one input and open-ring networks. The indication of the short-circuit is done by one flag indicator for each phase.

The connection between the sensors and the display unit is done by cable. The sensor must be mounted on screened cables. The sensors are divisible and can be retrofitted. For the operation of the display device no power supply is required. The energy required to indicate the short-circuit is directly obtained from the sensors on the cable. The indicator type VE has a manual reset button.

The type VE is available in a panel-mounted and a surface-mounted housing.

External connectors

VE panel-mounted housing (refer to figure 3)

- Connector 1 - 2: short-circuit sensor L1
- Connector 3 - 4: short-circuit sensor L2
- Connector 5 - 6: short-circuit sensor L3
- Connector 13- 15: SCADA change-over contact

VE surface-mounted housing (refer to figure 4)

- Connector 1 - 2: short-circuit sensor L1
- Connector 3 - 4: short-circuit sensor L2
- Connector 5 - 6: short-circuit sensor L3
- Connector 12- 14: SCADA change-over contact



Figure 1 - Panel-mounted housing of the display unit



Figure 2 - Surface-mounted housing of the display unit

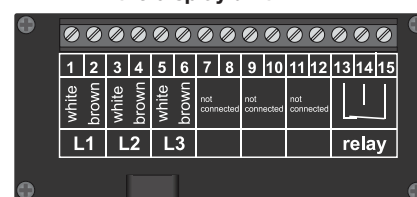


Figure 3 - Connectors (panel-mounted)

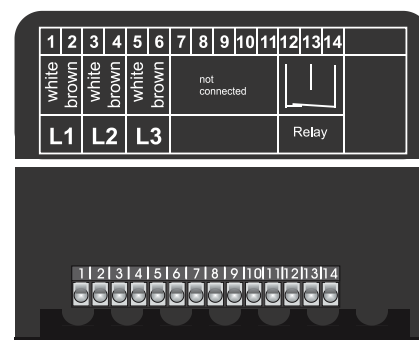
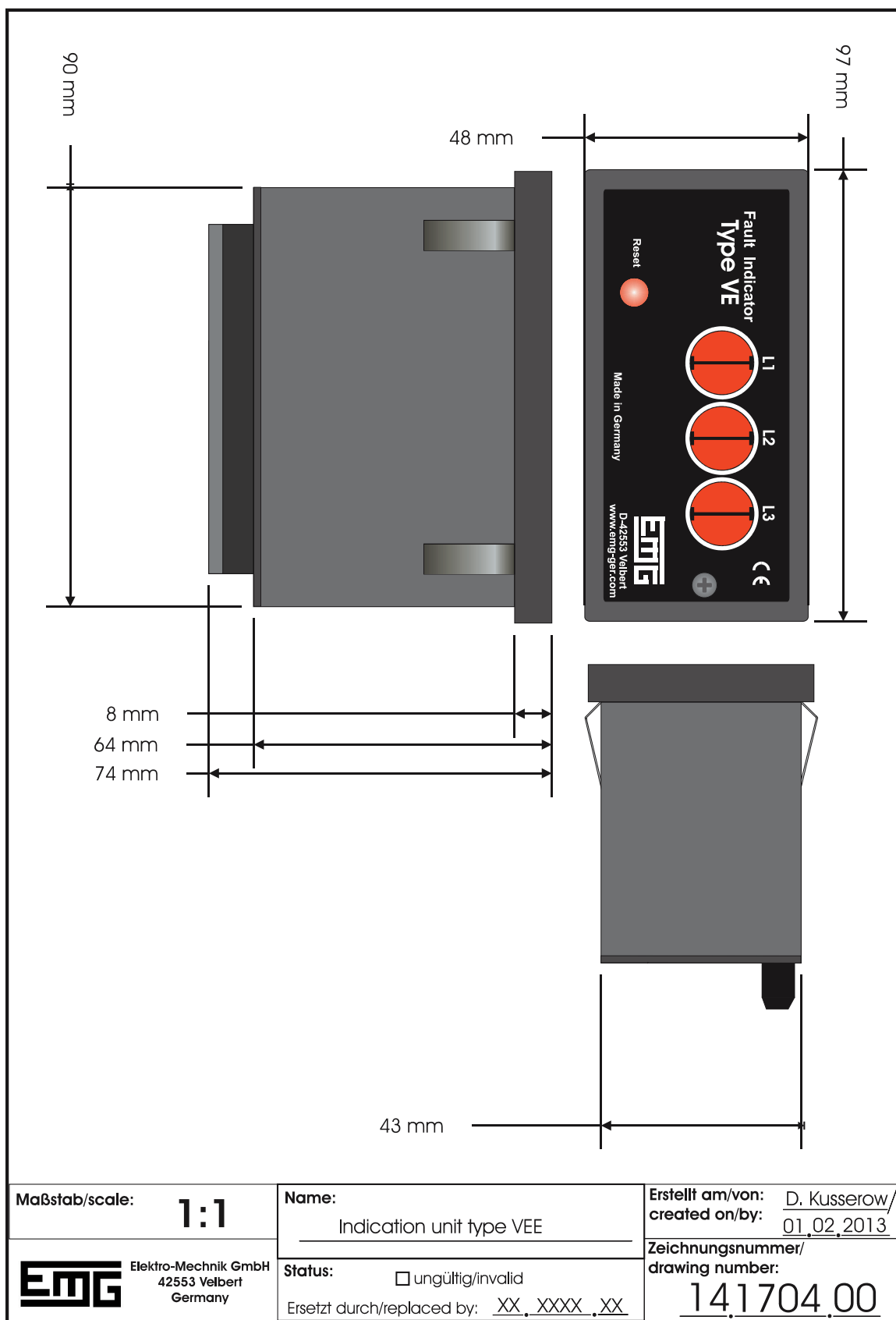
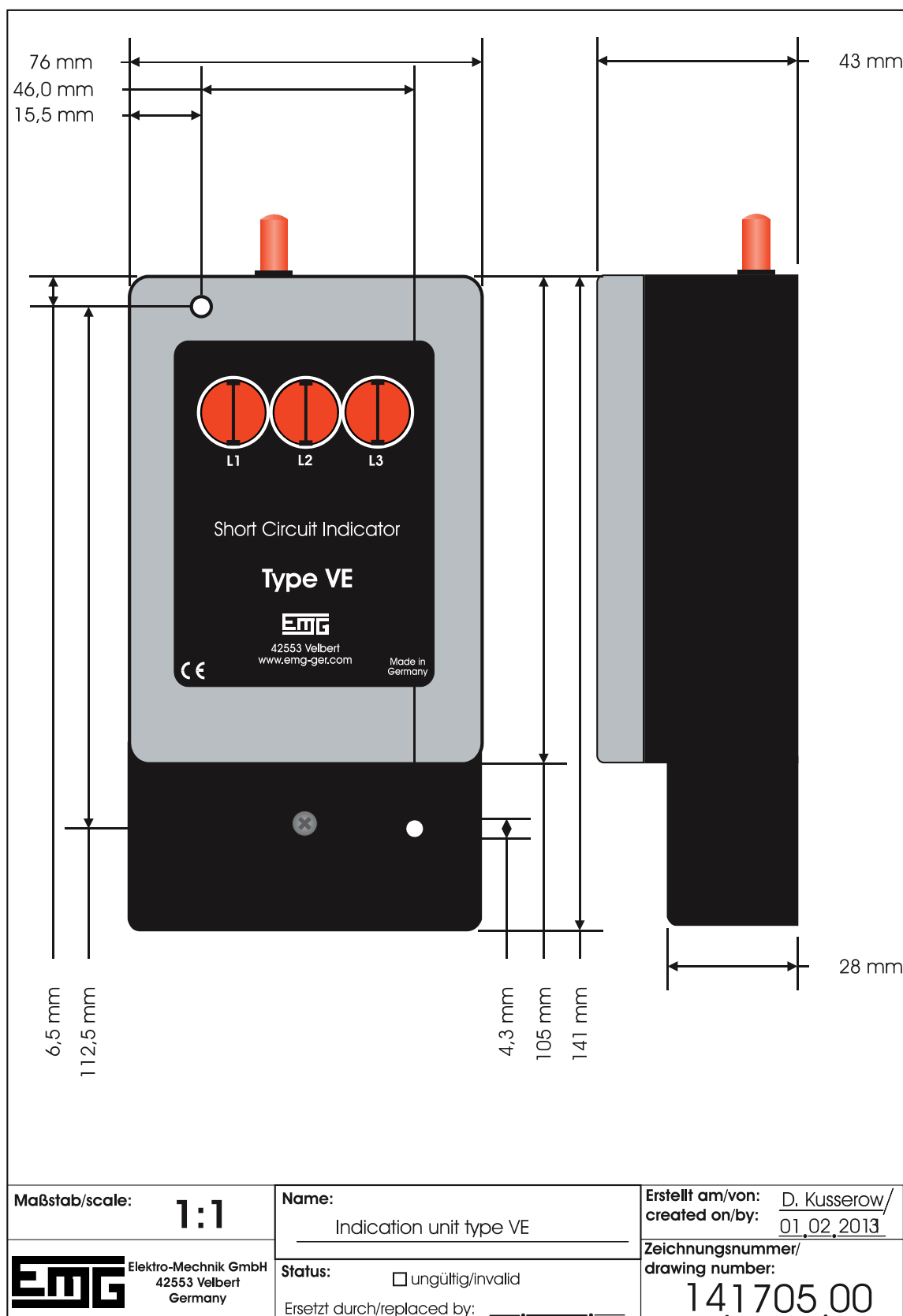


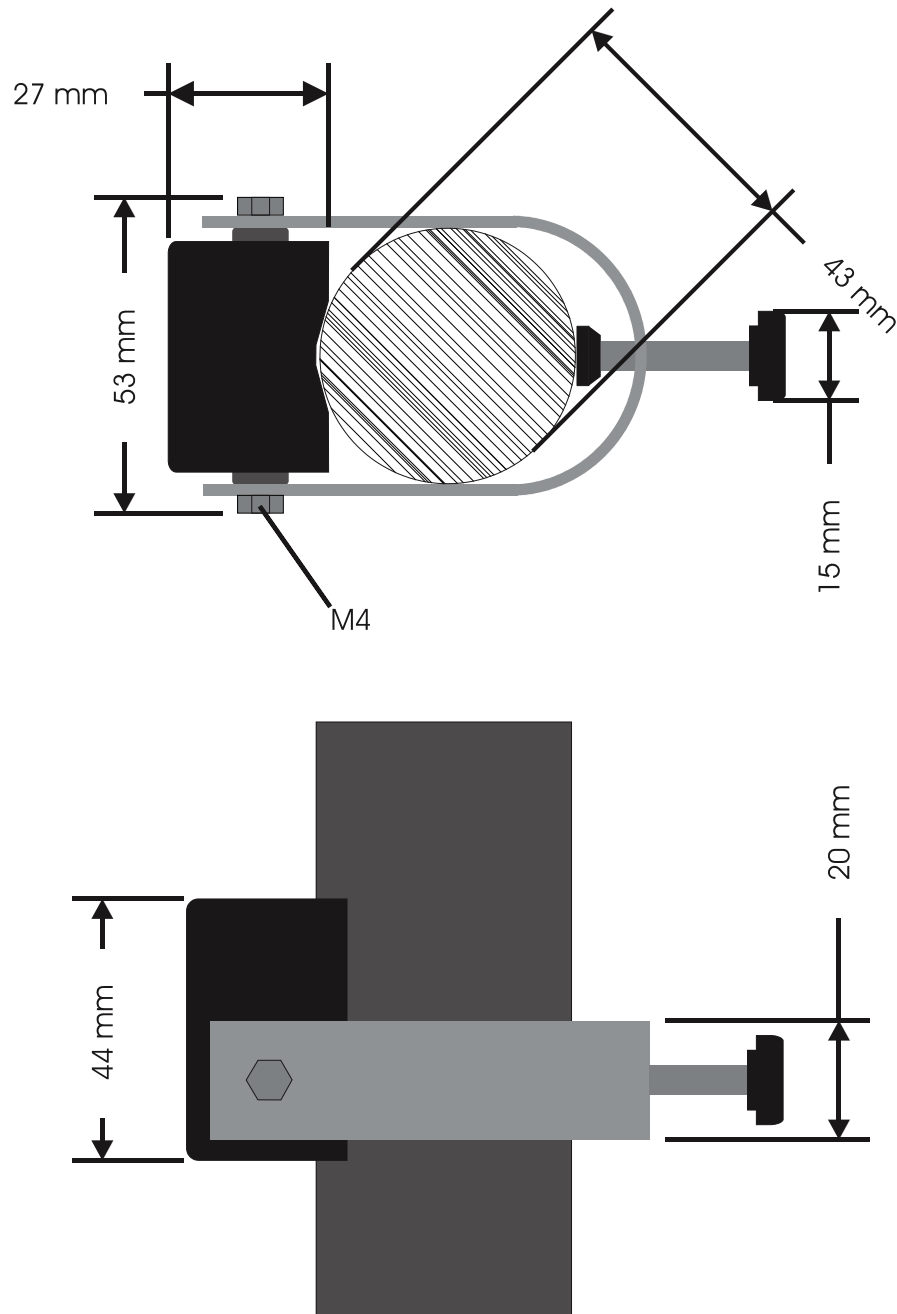
Figure 4 - Connectors (surface-mounted)

Subject	Value
trip current	adjustable: 200 / 400 / 600 / 800 / 1000 * A (± 10 %)
indication of short-circuits	one red bistable flag for each phase
reset of the indicator	manual by push-button
dimensions: panel-mounted housing	97 mm x 48 mm x 47 mm (WxHxD) (dimensions of the cut out: 92 $_{+0.8}$ x 45 $_{+0.6}$ mm / IEC 61554 / DIN43700)
dimensions: surface-mounted housing	(WxHxD) 141mm x 76mm x 43mm
protection class: panel-mounted housing	IP40
protection class: surface-mounted housing	housing with electronic: IP65 terminal box: IP54
protection class: sensors	IP67
internal type test	according to IEEE 495-2007
operation temperature range	-25°C to +70°C
SCADA contact	1 x change-over contact permanent / wipe contact max. 230 V AC / max. 2 A / max. 30 W
short-circuit sensor (CT)	three short circuit sensors type SK (copper cable) (three current transformers for single-core cables) diameter: 22-42* mm connection cable length: 3* m

*PLEASE NOTE: other values can be ordered







Maßstab/scale: 1:1	Name: Short-circuit sensor type SK	Erstellt am/von: W. Kusserow/ created on/by: 16.11.2010
	Status: ☐ ungültig/invalid Ersetzt durch/replaced by: XX.XXXX.XX	Zeichnungsnummer/ drawing number: 121469.01



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