



symbolic image

DATA SHEET

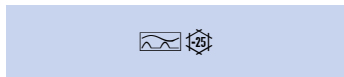
DCT A-030

sensitive to pulsating and alternating currents Type A

Article number 09340254



[Internetlink](#)



Function

Residual current transformers in combination with evaluation units are suitable for the protection or monitoring of electrical circuits. The transformers have a large selection of opening cross-sections (rated currents). For this reason it is possible to protect and monitor electrical systems with large conductor cross-sections, i.e. with high currents and high voltages. Series DCT transformers combine with DMRCd evaluation units to form modular residual current devices (MRCDs) as per EN 60947-2 or with DRCM evaluation units to form residual current monitors (RCMs) as per EN 62020. Only components of the same type of residual current (A or B+) can be combined. Residual current transformers with characteristic A detect sinusoidal AC currents as well as pulsating DC residual currents. The transformer covers all of the active conductors leading to the consumers and uses its output signal to illustrate the time curve of the sum of all conductor currents flowing through it. Its output signal is proportional to the residual current, which flows back to the earthing point of the supply mains via the protective earth conductor in the case of an insulation fault or via the earth.

Features

suitable for detecting residual currents type A and AC, monitored frequency range 50 Hz - 60 Hz (type A) 40 Hz - 2 kHz (type AC), detection of rated residual operating current and residual current of 30, 100, 300, 1000 and 3000 mA, available designs with internal diameters of 20, 30, 35, 70, 105, 140 and 210 mm, rated voltage of monitored circuit up to 690 V, for rated currents up to 400 A, rated current can be extended using DMbT centring sleeve, compact, robust plastic housing, easy mounting

Mounting

The devices are mounted on stable substrata using the supplied mounting brackets.any installation position

Applications

Transformers from series DCT A are used in conjunction with residual current monitors from series DRCM type A and modular residual current devices from series DMRCd type A.

Notes

The residual current transformers as bushing transformers are only permitted for operation with insulated cable and line systems. The internal diameter of the transformer must be set to at least 1.5 times the size of the external diameter of the cable(s) to be wired.

Accessories

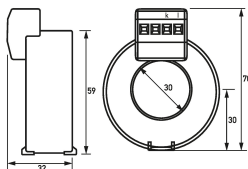
Support rail clips DCT

Technical Data

Technical Data	DCT A-030
Series	DCT A-030
Current transformer specification	Differenzstromwandler
Current transformer suitable for	DMRCd / DRCM
Residual current detection characteristic	A, AC
	Transformer primary
Rated voltage (AC)	0 V ... 690 V
rated impulse withstand voltage	8 kV / Kategorie IV
Rated current	100 A
Rated frequency	50 Hz ... 60 Hz

Technical Data	DCT A-030
max. Overcurrent regarding non-tripping	6 x I _n
Thermal continuous residual current factor	1.5 x I _n
Rated short-circuit residual current	10 kA
Rated short-time residual current factor	10 x I _n (für 1 s)
Rated impulse residual current factor	25 x I _n
Plug-in terminal connector (Transformer output)	
Protective cover available	yes
max. Connection C1 cable length	10 m (e. g. LiY 0.5 mm ²)
max. Outer diameter Connection cable	20 mm
Clamping area	max. 4 mm ²
Tightening torque	max. 0.25 Nm
General data	
Operating position	any
max. Operating altitude above MSL	2000 m
Storage temperature	-40 °C ... 85 °C
Ambient temperature	-25 °C ... 65 °C
Housing type	wall-mounted housing
Mounting type	Wall mounting
Housing material	Polycarbonate (PC)
Protection class	IP20
sealable	yes
Width	33 mm
Height	70 mm
Depth	32 mm
Width with lugs	46 mm
Height with lugs	70 mm
Depth with lugs	32 mm
Installation depth	32 mm
Inside diameter	30 mm
Design requirements/Standards	EN 62020, VDE 0663, EN 60044-1, VDE 0414

Dimensions



Dimensional drawing Group view