

Differential current transformers type A; series “DACT” for detection of residual currents in 3- / 4-phase AC systems



Features / benefits

- Highly sensitive current sensor for detecting even smallest fault currents
- Easy connection by the 4-pin WAGO® cage clamp
- High security due to integrated overvoltage protection
- Suitable for flexible applications because of a wide frequency range

Technical specifications

- Operating temperature: $-10^{\circ}\text{C} < T < +70^{\circ}\text{C}$
- Storage temperature: $-25^{\circ}\text{C} < T < +70^{\circ}\text{C}$
- Therm. nominal continuous residual current I_{cth} : see table below
- Max. operating voltage: 800 V
- Nominal surge voltage: 8 kV
- Pollution degree: III
- Protection class: Housing: IP 40; Terminals: IP 20
- Frequency range: 30 Hz ... 3 kHz
- Applicable technical standards: IEC 60664-1 / IEC 60664-3

Main dimensions

Type	DACT 20	DACT 35	DACT 60	DACT 120
Dimension				
Window dimension	Ø 20 mm	Ø 35 mm	Ø 60 mm	Ø 120 mm
Transformer width	82 mm	104.5 mm	135 mm	210 mm
Transformer height	63 mm	86.5 mm	117 mm	191.5 mm
Transformer depth	30 mm	30 mm	37 mm	37 mm
Weight	approx. 145 g	approx. 240 g	approx. 390 g	approx. 950 g

Technical parameters

Type	DACT 20	DACT 35	DACT 60	DACT 120
Data				
Primary nominal residual current I_{AN} :	10 A	10 A	10 A	10 A
Secondary nominal residual current:	0.0167 A	0.0167 A	0.0167 A	0.0167 A
Measuring range:	0.02 ... 20 A	0.02 ... 25 A	0.02 ... 30 A	0.02 ... 50 A
Ratio:	1:600	1:600	1:600	1:600
Rated burden:	180 Ω / 50.2 mW	180 Ω / 50.2 mW	180 Ω / 50.2 mW	180 Ω / 50.2 mW
Accuracy class:	1	1	1	1
Rct (75 °C)	5 ... 8 Ω	5 ... 8 Ω	5 ... 8 Ω	5 ... 8 Ω
L ($U_{\text{sec}} = 100\text{mV}; 50\text{Hz}$)	8 ... 12 H	8 ... 12 H	8 ... 12 H	5 ... 12 H

Further versions are available on request.