AKS - C SDT -Ground Fault Sensors

Combine a current transformer, signal conditioner and a mechanical relay into a single package. The AKS series has an extended current input range, universal solid-state outputs and a wide frequency response. The output state is Normally Open.



Electrical data					
I _P	Primary current	5 950	mA AC		
S f	Frequency range	5 V AC, 2 A @ 50-400	2 30 V DC ¹⁾ Hz		
v _c	Supply voltage (Operates 55-110% of V _c) AKS - C SDT 120 FS AKS - C SDT 120 NF	120 120	V AC V AC		
	Supply voltage (Operates +/-10% of V _c) : AKS - C SDT 24U FS AKS - C SDT 24U NF	24 24	V AC/DC V AC/DC		
V _b	Rated voltage (CAT III, PD2)	150	V AC		
V	R.m.s. voltage for AC isolation test, 50 Hz, 1 mn	3	kV		
Accuracy - Dynamic performance data					

t _r	Response time @ 105 % of I _{P adj} @ 150 % of I _{P adj} @ 600 % of I _{P adj}	200 60 15	ms ms ms
	General data		
T _A m	Ambient operating temperature Mass Safety EMC	- 15+ 70 140 IEC 61010-1 EN 61326	°C g

Options

FS Normally Energized: Protection from faults and loss of control power.

NF Normally Deenergized: Protection from faults only when control power is applied

		Control power applied	
	No Power	No fault	Fault
FS	Open	Closed	Open
NF	Open	Open	Closed

<u>Notes</u> : $I_{p \text{ adj}}$: Setpoint current adjusted by the user ¹⁾ Low level considered < 12 V DC.

 $I_{PN} = 5 ... 950 \text{ mA}$



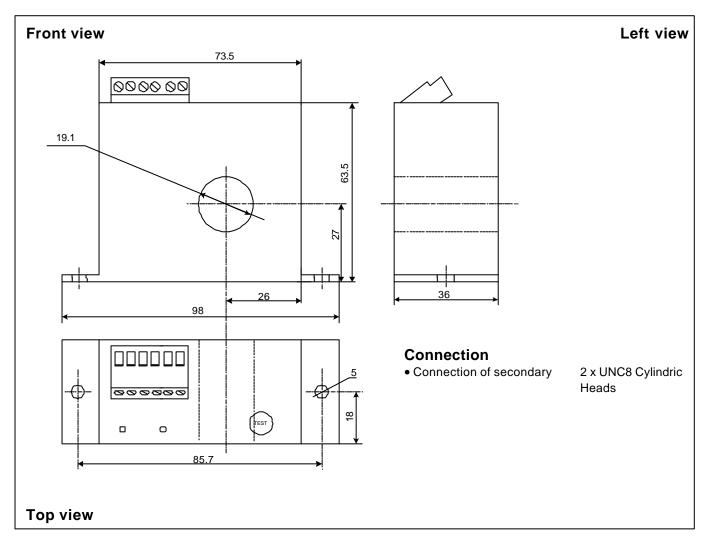
Features

- Auto reset operation outputs.
- SPDT relay
- Factory adjusted setpoint.
- Compatible with Standard Equipment Works on 1 phase or 3 phase power. Controls standard shunt trip breakers or contactors. Tie into Emergency Circuits (EMO/EPO).
- Isolated
 - Magnetically isolated from the monitored circuit and control power.

Applications

Regulatory Approval Meet requirements by industry groups and governments for Ground Fault Protection.

Dimensions AKS - C SDT - (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance
- Fastening
- Primary through-hole

±1mm
2 holes \varnothing 4.5mm
Ø 19 mm

Remarks

- Temperature of the primary conductor should not exceed 60°C.
- Dynamic performances (di/dt and response time) are best with a single bar completely filling the primary hole.