

AKS 0.03 C SDT - Groud 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 Primary current (with manual jumper) mA AC L 5, 10, 30¹⁾ S Relay: 0.5 A @ 125 VAC, 2 A @ 302 VDC Output signal f Frequency range 50-400 Hz Supply voltage (Operates 55-110% of V_c) AKS 0.03 C SDT 120 FS 120 V AC **AKS 0.03 C SDT 120 NF** 120 V AC Supply voltage (Operates +/-10% of V_c): V AC/DC **AKS 0.03 C SDT 24U FS** 24 **AKS 0.03 C SDT 24U NF** 24 V AC/DC V_{b} Rated voltage (CAT III, PD2) 150 V AC V^d R.m.s. voltage for AC isolation test, 50 Hz, 1 mn 3 kV

	Accuracy - Dynamic performance da	ata	
t,	Response time @ 105 % of I _{P adj}	200	ms
•	@ 150 % of I _{P adj}	60	ms
	@ 600 % of I _{P adj}	15	ms
C	Seneral data		
T _A	Ambient operating temperature	- 15+ 70	°C
m	Mass	140	g
	Safety	IEC 61010-1	l
	EMC	EN 61326	

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

 $\underline{\text{Notes}}$: 1) $I_{p \text{ adj}}$: Setpoint current adjusted by the user

2) Low level considered < 12 V DC.

$I_{PN} = 5, 10, 30 \text{ mA}$



Features

- Operation to Match Your Application: Auto-Reset—For controlling shunt trip breakers.
- SPDT relay
- Tri-Set—Field select 5, 10 or 30mA. Fast and convenient.
- 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

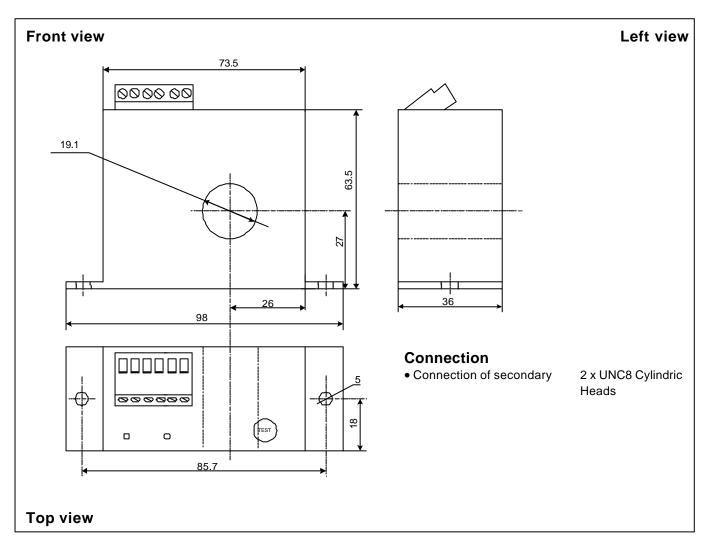
- Personnel Protection (typically 5mA)
 Senses low fault currents and alarms to shut power off before injury occurs.
- Equipment Protection (typically 30mA)
 When personal protection is not an

When personal protection is not an issue, select a higher set point to protect equipment.

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Dimensions AKS 0.03 C SDT - (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

- General tolerance
- Fastening
- Primary through-hole
- ± 1 mm 2 holes Ø 4.5mm
- \varnothing 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.