

DKS 100 C - Current Operated Switches

Combine a current transformer, signal conditioner and limit alarm into a single package. The DKS series has an extended current input range, universal solid-state outputs and a wide frequency response.







$I_{PN} = 4 ... 100 A$



Electrical data

Primary current (with manual jumper)

4 - 20, 10 - 50, 20 - 100 A

DKS 100 C NOU Normally Open 0.15 A @ 240 V AC/DC

I_{oc}	Overload capability @	Continuous	5sec	
00	For 4-20 A	40	200	Α
	For 10-50 A	100	500	Α
	For 15-100 A	200	1000	Α
f	Frequency range		DC to 400 Hz	
$\mathbf{V}_{_{\mathrm{C}}}$	Supply voltage		20-28	V AC/DC
$V_{\rm b}$	Rated voltage (CAT III, PD2)		150	VAC
V _d	R.m.s. voltage for AC isolation test, 50 Hz, 1 mn		3	kV
l _c	Current consumption		< 0.5	Α

Accuracy - Dynamic performance data					
$\epsilon_{\scriptscriptstyle \sf H}$	Hysteresis (of setpoint)	±5	%		
t,	Response time @ 110 % of I _{P adi}	100	ms		
t,	Response time @ 200 % of I _{P adi}	20	ms		
•	Off State Leakage	< 10	μΑ		

	General data						
$\mathbf{T}_{_{\!A}}$	Ambient operating temperature	- 20 + 50	°C				
T s	Ambient storage temperature	- 50 + 70	°C				
m	Mass	140	g				
	Protection type	IP20					
	Safety	IEC 61010-1					
	EMC	EN 61326					

Features

- Compact, One-piece Design
 Fits in crowded motor starters,
 power supplies and control panels.
- Input Isolation
 Much safer than shunt/relay combinations.
- Output Installation Isolated output greatly simplifies wiring.
- Tough
 Designed to handle harsh industrial environments.
- Adaptive Hysteresis
 - Hysteresis is 5% of setpoint.
 - Allows closer control than fixed hysteresis.
- Reliable Solid state design.

Applications

- Electric Heating Elements
 Instant indication of heater status.
- Power Supplies
 Signals over-current before
 equipment fails.
- Machine Operation Instant status of motors, lamps and other loads.
- Telecom Sites Monitors battery output

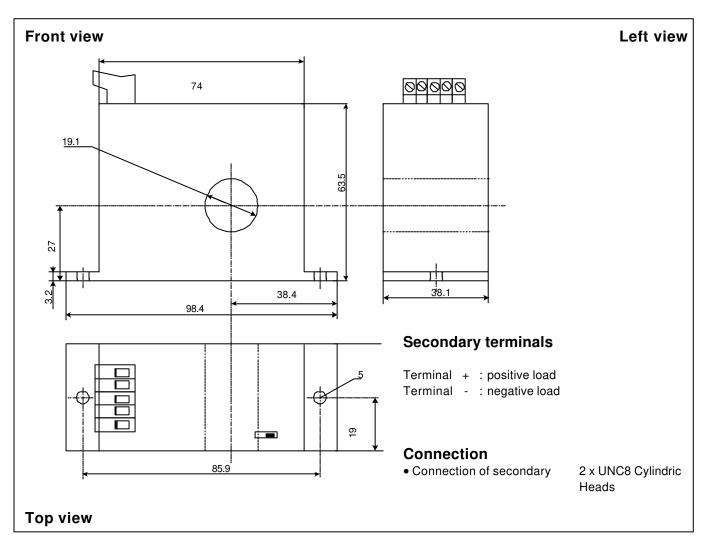
 $\underline{\text{Notes}}$: $I_{p \text{ adj}}$: Setpoint current adjusted by the user

¹⁾ 3A Inductive @ 240 V AC.

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Dimensions DKS 100 C - (in mm. 1 mm = 0.0394 inch)



Mechanical characteristics

• General tolerance

± 1 mm

Fastening

2 holes Ø 4.5mm

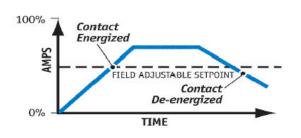
• Primary through-hole

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.

Threshold Levels



Connections

