

NK Technologies AC Current Switches

If you control or monitor electric powered loads, you need current switches. Monitor fans, pumps, lights, and heaters for proper operation. Current switches give positive feedback that the load is operating and are much easier to install than alternatives like pressure switches, optical sensors, or zero speed switches.

AS and ASX current switches combine a current sensor, signal conditioner, and limit alarm in a single package. AS1 series are well suited to automation systems of all kinds with their universal solid-state outputs and a wide frequency response. AS3 series have a high current output that works well with relay logic control schemes. ASX series combine the AS3 design with a built in adjustable time delay. All models feature high visibility LED indication and rugged construction. AC monitoring models are available in solid and split core cases.



SPECIFICATIONS

	AS1 Series	AS3 Series	ASX Series	NEW
Power Required:	None – Self Powered	None – Self Powered	None – Self Powered	
Setpoint Range:	1-150A (fixed core) 1.5-150A (split core)	1-6, 6-40, 40-175A (fixed core) 1-6, 6-40, 40-200A (split core)	1.5-12, 12-55, 50-200 A	
Isolation Voltage:	UL Listed to 1270 VAC	UL Listed to 1270 VAC	UL Listed (pending) to 1270 VAC	
Frequency Range:	6-100 Hz	6-100 Hz	50-100 Hz	
Outputs				
Solid State N.O.:	0.2A @ 240 VAC/VDC	1A @ 240 VAC	1.0A @ 240 VAC	
Solid State N.C.:	0.2A @ 135 VAC/VDC	1A @ 240 VAC	1.0A @ 240 VAC	
Solid State -15 Option:	N/A	15A @ 120 VAC, 10A @240 VAC	N/A	
Off State Leakage:	None	NC only: 2.5 mA	NC only: 2.5 mA	
Response Time:	0.120 Second	0.120 Second	0.1 Second	
Hysteresis:	5% of Setpoint	5% of Setpoint	5% of Setpoint	
Sensing Aperture:	0.55", 14 mm Dia. (FF Case) 0.75", 19 mm Dia. (FT Case) 0.85", 21.5 mm Sq. (SP Case)	0.55", 14 mm Dia. (FF Case) 0.85", 21.5 mm Sq. (SP Case)	0.75", 19 mm Dia. (FT Case) 0.85", 21.5 mm Sq. (SP Case)	
Case:	UL 94V-0 Flammability Rated	UL 94V-0 Flammability Rated	UL 94V-0 Flammability Rated	
Environmental:	-58 to 149° F (-50 to 65° C) 0-95% RH, Non-condensing	-58 to 149° F (-50 to 65° C) 0-95% RH, Non-condensing	5 to 158° F (-15 to 70° C)	
Listings:	UL and ULC 508 Listed, CE	UL and ULC 508 Listed, CE	UL and ULC 508, CE (pending)	

ORDERING INFORMATION

To Order—Insert Number Code for Each Letter to Select Catalog Number.
Example: AS1 - NCU-FT

A - B - C - D

A	Basic Model		C	Case and Connection	
	AS1	AC Sensing, Single Range	FF	Fixed Core, Front Connection	
	AS3, ASX	AC Sensing, 3 Ranges	FT	Fixed Core, Top Connection (AS1, ASX only)	
B	Output		SP	Split Core	
	NOU	AS1 Normally Open	D	Options	
	NCU	AS1 Normally Closed	GO	Fixed GO/No-GO Setpoint (AS1 only)	
	NOAC	AS3, ASX, Normally Open	(blank)	Adjustable Setpoint	
	NCAC	AS3, ASX, Normally Closed	NL	No LED (AS1, AS3 only)	
			15	15A @ 120 VAC Output (AS3 only)	