



Current Operated Switches

4pplications

Electronic Proof of Flow

- No need for pipe or duct penetrations.
- More reliable than electro-mechanical pressure or flow switches.

Conveyors

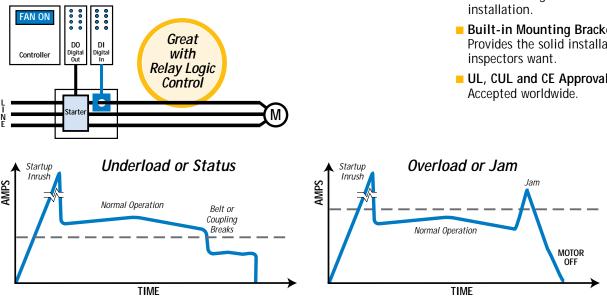
- Detects jams and overloads.
- Interlocks multiple conveyor sections.

Lighting Circuits

Easier to install and more accurate than photocells.

Electric Heaters

Faster response than temperature sensors.



Current Operated Switches



'AS3' Current Switches from NK Technologies combine a current transformer, signal conditioner and a limit alarm into a single package. The AS3 Series has three jumper selected current input ranges, solid-state AC output and a wide frequency range. Available in a split core or front terminal solid core case.

eatures

- Choice of Outputs - Solid state switch N.C. or N.O.
 - 1A @ 240VAC.
- 15A @ 120VAC. Self-powered
- Cuts installation and operating costs.
- Adjustable Setpoint Speeds startup.
- Solid or Split Core Case Choose the right version for each
- Built-in Mounting Bracket Provides the solid installation
- UL, CUL and CE Approval

Know your power...

herause w	ith knowledge comes contro	$AS3M Only \qquad \underbrace{1.2''}_{31mm} $
Decampe M	an knowledge comes contro	
Specificat	tions	45mm 55.4mm
		0.125" 3.2mm 24 1mm
Power Supply	None — Self-powered Isolated Solid State Switch	
Output Output Rating	1.0A @ 240VAC (Standard Units),	$ \begin{array}{c} \downarrow \\ \uparrow \\ \downarrow \\ 1.650'' \\ 27mm \end{array} \begin{array}{c} \downarrow \\ \downarrow \\ 1.650'' \\ 23.4mm \end{array} $
output nating	15A @ 120VAC, 10A @ 240VAC (-15 Option	n) <u>3.3</u> "
Off State Leakage	 NOAC: NONE, NCAC: 2.5mA 	83.8mm 0.17"
Response Time	0.04 to 0.120 Second	→ Typical of 2
Setpoint Range	Fixed Core: 1–6, 6–40 & 40–175A	12mm
Untoracia	Split Core: 1.5–6, 6–40 & 40–200A	2.75" ← 69.9mm
Hysteresis Overload	5% of Setpoint MODEL CONTINUOUS 6 SEC 1 SEC	69.9mm FF Case
5.05uu	1–6A 150A 400A 600A	
	 6-40A 150A 500A 800A 40-175A 210A 800A 1,200A 	$\begin{array}{c} 2.4" \\ 61mm \\ \hline 0.22" \end{array}$
Isolation Voltage	UL listed to 1,270VAC, tested to 5,000VAC	
Frequency Range	6–100Hz, works on VFDs	
Sensing Aperture	 -FF Case: 0.55" (14mm) dia. -SP Case: 0.85" (21.5mm) sq. 	
Case	UL 94V-O Flammability Rated	2.25" 57.2mm
Environmental	-58 to 149°F (-50 to 65°C),	0.857" 21.7mm
Listings	0–95% RH, non-condensing UL 508 Industrial Control Equipment	-0.125" $+$ $-0.52"$ $ -$
Listings	(USA & Canada), CE	13mm
		$ \begin{array}{c} & & & & & \\ \uparrow & & & & \\ \uparrow & & & & \\ \downarrow & & & \\ \hline & & & & \\ \hline & & & & \\ \downarrow & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & &$
MULTI-POLE VERSI Switch Rating	ON (SEE PAGE 16 FOR DESCRIPTION): 0.15A @ 30VDC	3.53"
Off State Leakage	AADC: NONE	$ \xrightarrow{\text{89.7mm}} \xrightarrow{\text{89.7mm}} \xrightarrow{\text{61mm}} $
gr	CCDC: 0.3mA (NC terminal only)	
		4.5mm int. dia. Typical of 2
Connecti	ons	
	Typical of NOAC	
Range J	Output and NOAC-15	→ <u>3.044"</u> → <u>77.3mm</u> → <i>SP Case</i>
🚫 None 🗖		
		O rdering Information
	Output Typical of	Example: AS3-NOAC-SP-NL
Range J	■ (See page 16)	Adjustable AC current switch, split core without indicating LED.
Setpoint LOW MI	D HIGH SmartLED	AS3
$\bigcirc \dashv \vdash$	Output Typical of	
Range J	umper AS3-AADC	Output Rating Case Style Options NCAC Normally Closed, 1A @ 240VAC FF Fixed Core, NL No LED
•	D HIGH SmartLED (See page 16)	NOAC Normally Open, 1A @ 240VAC Front Term. 15 15A @ 120VAC SP Split Core output
Notes: Terminals are #6 scr	ews.	
 DC contacts are pol 		Current Operated Switches
	NK Technologies = 800/959-4	AS3 Series
		ADD DELLES





'AS3' Current Switches are a multi-pole version of the popular AS3 Series. The AS3 Series combines a current transformer, signal conditioner and two limit alarms into a single package. The AS3 Series has three jumper-selected current input ranges, solid-state DC output and a wide frequency range. Available in a front terminal

solid core case.

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Multi-pole Output Monitor two setpoints with one sensor.

- Self-powered Cuts installation and operating costs.
- Easily Adjustable Setpoint Speeds startup.
- Solid or Split Core Case Choose the right version for each installation.
- Built-in Mounting Bracket Provides the solid installation inspectors want.
- UL, CUL and CE Approval Accepted worldwide.

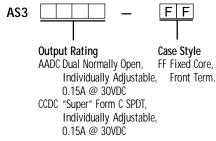
pecifications

See page 15, "AS3 Series" specifications and dimensional drawings.

Information

Example: AS3-CCDC-FF

Adjustable multipole current switch, "Super" Form C output, fixed core with front terminals.



Current Operated Switches



Multi-pole Current Operated Switches

Hpplications

Pump Control

Individually adjustable indication of overload (jam) and underload (suction loss).

Dual Alarm

Easy setup for dual level alarms.

