



NK Technologies

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MADE IN
USA

ASM SERIES Current Operated Switches

Specifications

Power Supply	None—Self-powered
Output	Magnetically Isolated Solid-State Switch
Output Rating	<ul style="list-style-type: none"> N.O. Version: 0.30A @ 135 VAC or VDC Not polarity sensitive
Off State Leakage	<10 μ A
Response Time	200ms
Setpoint Range	<ul style="list-style-type: none"> Solid-core: 1.5–150A Split-core: 2.8–150A
Setpoint	<ul style="list-style-type: none"> Overload: +15% of Load (-OL) Underload: -15% of Load (-UL) Operating Window +/- 15% of Setpoint
Hysteresis	5% of Setpoint
Overload	500A @ 6sec., 1,000A @ 1sec.
Isolation Voltage	UL Listed to 1,270VAC, tested to 5,000VAC
Frequency Range	6–100Hz
Dimensions	3.50" x 2.25" x 1.20", Aperture: 0.74"–0.85"
Case	UL94 V0 Flammability Rated
Environmental	-58 to 122°F (-50 to 50°C) 0–95% RH, non-condensing
Listings	UL 508 Industrial Control Equipment (USA & Canada), CE (pending)



ASM Series Load Monitoring Switches are designed for overload, underload or operating window applications. Upon sensing an average operating current, the ASM self-learns and establishes a limit-alarm trip point based on +/- 15% of the average expected current draw. The ASM is available in solid- or split-core enclosure styles.

Features

Self-powered and Self-calibrating

- Speeds start-ups, cuts installation costs.

Status Monitoring, Overload, and Operating Window Options

- Choose the operating style that matches your application.

Universal Output

- AC or DC compatibility with any automation system.

UL, CUL and CE Approval

- Accepted worldwide.

Applications

Conveyors (-OL option)

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

Electronic Proof of Flow (-UL option)

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

Pump Protection (-OU option)

- Provides overload (jams) and underload (suction loss) indication.
- Interlocks multiple conveyor sections.

Ordering Information

Sample Model Number: ASM-NOU-OL-SP
AC current operated switch, normally open, self-calibrating overload operation in a split-core case.

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(1) Output Rating

NOU	Normally Open (closed while current is within +/-15% window)
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(2) Operation

OL	Overload
UL	Underload (Status)
OU	Over/Underload (Operating Window)

(3) Case Style

FT	Solid-core, Top Term
SP	Split-core

ASM Series