

# ACROSS THE LINE STARTER COMPARISON



## EMS SMARTSTART™

Energy Management Starter



## BAS SMARTSTART™

Building Automation Starter



## SAS SMARTSTART™

Standard Automation Starter



## BAS 1P

Building Automation Starter Single Phase



<b>Description</b>	<i>The most comprehensive building automation starter featuring optional BACnet integration, metering, and over/under voltage protection.</i>	<i>The industry standard, proven for reliability and conventional control system compatibility.</i>	<i>Advanced protection and high reliability make the SAS an incredible value.</i>	<i>HOA capability in a single phase package with wide range overload. Universal application.</i>
<b>Ranges</b>	1Ø, 120 ~ 230V, 1/10-25HP 3Ø, 200 ~ 600V, 1/2-300HP	3Ø, 200 ~ 600V, 1/2-30HP	3Ø, 200 ~ 600V, 1/2-30HP	1Ø, 110V, 1/10-1HP 1Ø, 240V, 1/10-1HP
<b>User Interface</b>	HOA keypad with LEDs & LCD display	HOA keypad with LEDs	HOA keypad with LEDs	On/Off switch, recessed Hand-Auto mode switch, LEDs
<b>Overload Type</b>	Wide range electronic overload (class 5-30)	Wide range electronic overload (class 10/20)	Wide range electronic overload (class 10)	Wide range electronic overload (class 10)
<b>Standard</b>	Voltage/dry contact auto run inputs Proof of flow (true power) output Fault relay output Fireman's override input Shut down input Permissive auto input Damper control	Voltage/dry contact auto run inputs Proof of flow current status Fault relay output Fireman's override input Shut down input Permissive auto input Damper control	Voltage/dry contact auto run inputs Proof of flow current status - - - - -	Voltage/dry contact auto run inputs Current status (On/Off) - - - - -
<b>Options</b>	Metering - Analog kW, Pulse kWh Metering - BACnet BACnet communications Modbus RTU communications Over/Under voltage Over/Under power (belt loss protection) Ground fault protection Backspin/on delay timers Ethernet Fault Logging	- - - - - - - - - -	- - - - - - - - - -	- - - - - - - - - -



### SAFETY FIRST!

As with all electrical equipment, only qualified, expert personnel should perform maintenance and installation. Comply with all applicable local and national codes and laws that regulate the installation and operation of equipment and read manuals thoroughly. Use only installation manuals and not this sales brochure for installation procedures. It is up to the installer to determine product suitability for a given application.