



BAS Building Automation Starter

3Ø, 200~600VAC, 1-200HP
HOA Keypad with LED Pilot Lights
Superior Electronic Motor Protection



The Industry's Standard Smart Starter! Proven Reliability with Controls Compatibility.

HOA Keypad with LED Status Pilot Lights

- LEDs indicate Hand/Off/Auto modes, run and overload conditions

Voltage & Dry Contact Inputs for Auto Run Command

- Wire directly from the automation system to the starter, no interposing relays necessary
- Save on installation costs and increase reliability

Fireman's Override

- Initiates smoke purge sequence during emergency situations for safety and code compliance

Damper Control

- Interlocks damper with starter ensuring proper sequence of operation
- Prevents damage to duct work, saves energy from building heat loss
- Saves on automation panel points, reduces wiring, saves on installation costs

Wide Range Class 1-30 Electronic Overload

- Prevents ordering confusion and eliminates call backs due to mis-sized heaters
- Advanced protective features including anti-cycling, manual/auto reset, etc.

Flexible Control Transformer (CPT)

- Multi-tap CPT input accepts all common motor voltages
- Integrated secondary protection – no fuses required

High Reliability Contactors for Long Life

- 2.5 million contactor electrical cycles at full rated current
- 25 to 50% longer life than typical units

Smart Installation



"Installation is a snap with the BAS's built-in voltage/dry inputs and damper control."

**FOR FANS
PUMPS &
AIR HANDLERS**

Combination Versions Include Disconnect

- Motor circuit protection disconnect provides branch and short circuit protection
- High interrupting ratings for maximum electrical system compatibility
- No fuses required – save time and money
- Lockable handle for safety



Our lockable disconnect provides superior, resettable protection without fuses



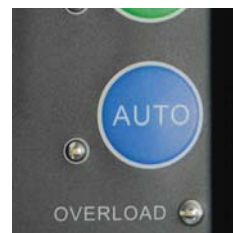
Integrated damper control and other control features

Specifications	
Starter Type	
Building Automation Starter	
Standard or Combination	
UL Type 1 or UL Type 4/12 Enclosure	
User Interface	
Hand-Off-Auto keypad with LEDs	Watertight membrane
LED pilot lights	Hand, Off, Auto, Run, Overload
Standard Control Operations	
Inputs	
Voltage Auto Run	Apply 10-130VAC/DC to energize
Dry Auto Run	N.O. dry contact closure
Fireman's Override	Apply 10-130VAC/DC to energize
Damper position switch	N.O. dry contact closure
Permissive Auto	N.O. dry contact closure
Shutdown	N.C. dry contact input
Output	
Damper motor control	24VAC, 1A max. (120VAC optional)
Operational	
Power Fail Mode	Restart last mode, no delay (default)
	Restart with delay
	Restart Off - LED flashes last mode
Mechanical	
Enclosure types	UL Type 1 or UL Type 4/12
Dimensions	See Pages 28 & 29
Environmental	
Ambient Operating Temp	-5° to 140° F (-20° to 60° C)
Ambient Storage Temp	-5° to 185° F (-20° to 85° C)
Relative Humidity	5% to 95% non-condensing

Protective Functions	
Overload Type	Electronic; I ² t Thermal Trip Curve
Current Setting Range	0.3 - 1.5A, 1 - 5A, 4.4 - 22A, 8 - 40A, 16 - 80A
Trip Class	Class 1-30
Reset	Manual or Automatic
Phase Unbalanced	Trip within 3 seconds @ 70% unbalance
Phase Loss	Trip within 3 seconds
Stall Condition	Trip within 3 seconds @ 170% FLA
Cycle Fault	Trip if cycle rate exceeds 1200 starts per hour



Wide range electronic overload eliminates sizing call backs



HOA keypad with LED pilot lights for ease of use

BAS Wiring Diagram

