



# Manual & Combination BAS Motor Starters



**SPECIFICATIONS:**

<b>User Interface</b>	
Hand/Off/Auto keypad with mode LEDs	
<b>Controls</b>	
<b>Inputs</b>	
12-250V Auto	Apply 12-250VAC/DC to energize
Dry Auto	N.O. Dry Contact
Shutdown	Apply 12-250VAC/DC to energize
Limit Switch	N.O. Dry Contact
External Pilot Devise	N.O. Dry Contact
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<b>Outputs</b>	
Proof of flow current status	<b>N.O. Relay Contact Ratings:</b> 110VDC, 0.3A Resistive, 125VDC, 0.5AGP 30VDC, 2.0A Resistive 120VAC 50/60Hz, 0.5A Resistive 125VAC 50/60Hz, 1.0A GP 240VAC 50/60Hz, 0.25A Resistive
Starter Fault	
Damper/Actuator	24VDC 1A maximum
<b>Operational</b>	
Power fail modes	Restart last mode, no delay (default)
	Restart with 10 second delay
	Restart Off - LED flashes last mode
<b>Protective Functions</b>	
Overload Type	Electronic; Pt Thermal Trip Curve
Current Setting Range	1-40A
Trip Class	10 or 20 - Default: Class 10
	Manual or Automatic. Default Manual
	Locked Rotor: Trip Regardless of FLA, 0.5 sec
	Max time to Start: Regardless of FLA or 12t curve, always trip at start if starting current is outside of an acceptable range (inrush /5) and still decreasing after 10 sec.
	FLA out of calibration: Trip after 10s if FLA Settings incorrect, ie. Start current is outside of an acceptable range (fla settings * 5 < inrush < fla settings * 14).
	Stall: Trips in .5 sec if a STALL condition is detected (Disabled during Startup)
Phase Unbalance	Trip w/in 3 sec @ 25% Unbalance.
Cycle Default	Trip if cycle rate exceeds 1200 starts per hour