ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Cerus Industrial BAS1-9 / J-5M* at our website: ***Click HERE***



BAS
Building Automation Starter

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

NEMA Rated UL c UL

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

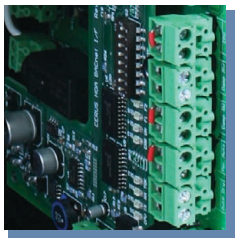
Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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

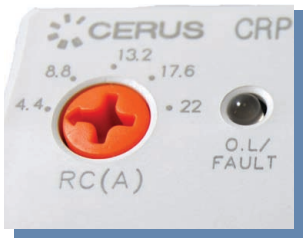
Specifications

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^2t 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



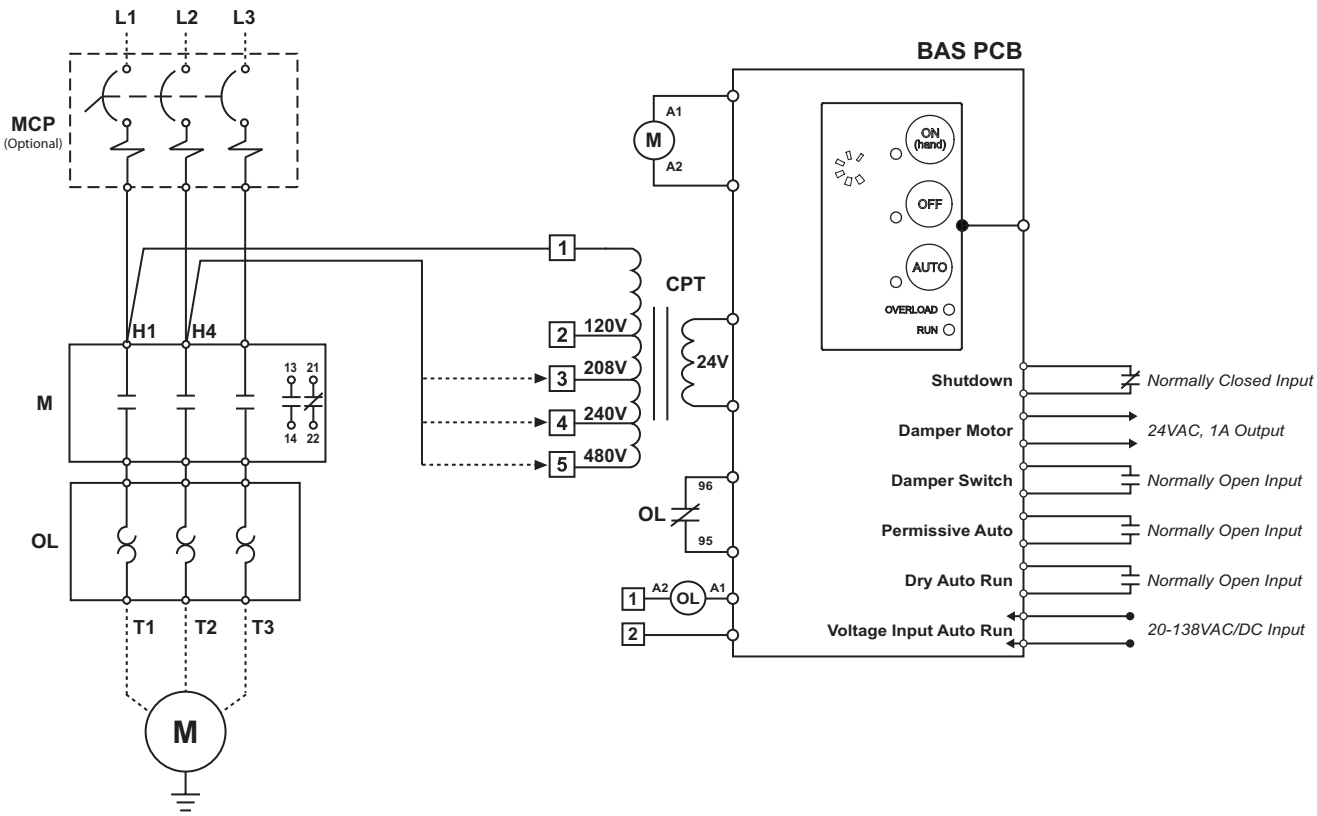
HOA keypad with LED pilot lights for ease of use



Wide range electronic overload eliminates sizing call backs

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

BAS Wiring Diagram



THE BAS STARTER



"When our projects call for starters, choosing the BAS starter ***eliminates the aggravation of sizing heaters.*** *It's the only starter on the market, that I am aware of, that gives you all the accessories you'll need right out of the box. Our installers have flexible inputs for starting motors without adding additional relays.* ***Cerus has also paid attention to clearly labeling and tagging each starter which saves my guys valuable time on job sites."***

-Steve Young
American Heating

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

FORT BRAGG

YOU'LL FIND CERUS STARTERS IN THE WORLD'S SMARTEST PROJECTS.



Project Spotlight: 2nd Brigade Barracks
Location: Fort Bragg, NC

The Army Corps of Engineers utilized Cerus BAS starters in the construction of the new 2nd Brigade Barracks. Cerus supplied over 80 BAS units to control air handling units, return fans and chilled water pumps across five separate buildings within the complex.

The BAS includes a standard wide-range electronic overload which eliminated the need to individually size "heaters" resulting in both labor savings and the reducing the man-hours required to select equipment.

Since BAS units always ship tagged for scheduled equipment, the installers easily matched starters to the correct location which resulted in a much faster installation.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

BAS

UL Type 1 Ordering and Sizing Information



- UL Type 1 for indoor use
- Lockable cover prevents unauthorized access/tampering
- Standard conduit knock-outs top and bottom for easy installation
- Combination version features motor circuit protector to provide branch and short circuit protection.

UL Type 1 *Indoor Enclosure*

Standard Magnetic H-O-A Starters *-Electronic Overload*

HP				SCIC KAIC @460V	NEMA Size				
Three Phase					00	0	1	2	3
200V	230V	460V	575V*		BAS Part Number				
1	1.5	3	3	5	BAS1-9/J-5				
3	5	10	15	5		BAS1-18/J-22			
7.5	10	20	25	5			BAS1-32/J-40		
15	15	30	50	5				BAS1-50/J-80	
20	25	50	60	10					BAS1-85/J-80

UL Type 1 *Indoor Enclosure*

Combination Magnetic H-O-A Starters *- Electronic Overload*

HP				SCIC KAIC @460V	NEMA Size				
Three Phase					00	0	1	2	3
200V	230V	460V	575V*		BAS Part Number				
–	–	3/4	3/4	65	BAS1-9/J-G1.6-5	BAS1-18/J-G1.6-5			
1/2	1/2	1	1.5	65	BAS1-9/J-G2.5-5	BAS1-18/J-G2.5-5			
3/4	3/4	2	36	65	BAS1-9/J-G4-5	BAS1-18/J-G4-5			
1	1.5	3	3	65	BAS1-9/J-G6-5	BAS1-18/J-G6-5			
2	2	5	5	65		BAS1-18/J-G8-22			
2	3	5	7.5	65		BAS1-18/J-G10-22			
3	3	7.5	10	65		BAS1-18/J-G13-22			
3	5	10	15	30		BAS1-18/J-G17-22	BAS1-32/J-G17-40		
5	7.5	15	20	30			BAS1-32/J-G22-40		
7.5	7.5	15	20	30			BAS1-32/J-G26-40	BAS1-50/J-G26-80	
7.5	10	20	25	30			BAS1-32/J-G32-40	BAS1-50/J-G32-80	
10	10	30	30	50				BAS1-50/J-G40-80	BAS1-85/J-G40-80
15	15	30	40	50				BAS1-50/J-G50-80	BAS1-85/J-G50-80
20	20	40	50	50					BAS1-85/J-G63-80
20	25	50	60	50					BAS1-85/J-G75-80

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

BAS

UL Type 4/12 Ordering and Sizing Information



- UL Type 4/12 for outdoor use
- Fully sealed: welded and gasketed for long life
- Rugged 16 gauge steel construction
- Combination version features motor circuit protector to provide branch and short circuit protection.

UL Type 4/12 *Outdoor Enclosure*
Standard Magnetic H-O-A Starters *-Electronic Overload*

HP				SCIC KAIC @460V	NEMA Size				
Three Phase					00	0	1	2	3
200V	230V	460V	575V*		BAS Part Number				
1	1.5	3	3	5	BAS12-9/J-5				
3	5	10	15	5		BAS12-18/J-22			
7.5	10	20	25	5			BAS12-32/J-40		
15	15	30	50	5				BAS12-50/J-80	
20	25	50	60	10					BAS12-85/J-80

UL Type 4/12 *Outdoor Enclosure*
Combination Magnetic H-O-A Starters *- Electronic Overload*

HP				SCIC KAIC @460V	NEMA Size				
Three Phase					00	0	1	2	3
200V	230V	460V	575V*		BAS Part Number				
–	–	3/4	3/4	65	BAS12-9/J-G1.6-5	BAS12-18/J-G1.6-5			
1/2	1/2	1	1.5	65	BAS12-9/J-G2.5-5	BAS12-18/J-G2.5-5			
3/4	3/4	2	3	65	BAS12-9/J-G4-5	BAS12-18/J-G4-5			
1	1.5	3	3	65	BAS12-9/J-G6-5	BAS12-18/J-G6-5			
2	2	5	5	65		BAS12-18/J-G8-22			
2	3	5	7.5	65		BAS12-18/J-G10-22			
3	3	7.5	10	65		BAS12-18/J-G13-22			
3	5	10	15	30		BAS12-18/J-G17-22	BAS12-32/J-G17-40		
5	7.5	15	20	30			BAS12-32/J-G22-40		
7.5	7.5	15	20	30			BAS12-32/J-G26-40	BAS12-50/J-G26-80	
7.5	10	20	25	30			BAS12-32/J-G32-40	BAS12-50/J-G32-80	
10	10	30	30	50				BAS12-50/J-G40-80	BAS12-85/J-G40-80
15	15	30	40	50				BAS12-50/J-G50-80	BAS12-85/J-G50-80
20	20	40	50	50					BAS12-85/J-G63-80
20	25	50	60	50					BAS12-85/J-G75-80

* For 600V part numbers please consult factory.

++ For starters over NEMA Size 3 consult factory.

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP