

# 4.2KVA – 200KVA

# THREE PHASE

Model: **AFCA**

**Motor-Generator Frequency Converter**  
Asynchronous / Open-Guarded Construction

60 HZ input – 50 HZ output

**Description:**

Our Lowest Cost, motor-generator based frequency converter with the same outstanding voltage and frequency regulation as the AFC1 model. Designed specifically to furnish electrical power to computers, and other electrical or electronic equipment. All models are comprised of an open-guarded brushless asynchronous motor-generator set, and is complete with automatic output voltage regulation. Total isolation of the load from the utility power and the capability to ride-through momentary power outages is standard on all models.

The AFCA is complete with integral vibration isolation, belt guard, and Motor - Generator connection box(s), for connection to a wall mounted Motor Starter and Output Circuit Breaker by the installer.

The AFCA can be ordered separately or with optional controls:

- **MS Option:** Wall mounted Motor Starter
- **MSC Option:** Wall mounted Combination Motor Starter

- **GCB Option:** Wall mounted Generator Circuit Breaker
- **UMC Option:** Unit mounted control cabinet complete with built-in Motor Starter, Input and Output Disconnect Switches and electrical protection.

**Electrical Specifications:**

**INPUT**

**Voltage:** Three phase, three wire plus safety ground. 208, 230, 460 VAC (as specified) ±10% from nominal  
**Frequency:** 60 Hz  
**Power Factor:** 0.8 lagging @ full-rated load  
**Protection:** Overload & short circuit, user provided (Included with MSC or UMC option)

**OUTPUT**

**Frequency:** 50 Hz ±2.5%, with nominal input  
**Voltage:** Three Phase 120/208, 220, 220/380, 240/415 VAC (as specified)  
**Voltage Regulation:** ±1%  
**Power Factor:** 0.8PF  
**Overload Capability:** 10% for 2 hours, 50% for 1 minute

**Duty:** Continuous duty at full-rated load  
**Protection:** Overload & short-circuit, user provided (Included with GCB or UMC option)

**Environmental Characteristics:**

**Temperature:** Operating: 40°C (104°F)  
**Altitude:** 3,300 feet above sea level  
**Humidity:** 0-95% Rh, (non-condensing)  
**Location:** Indoor

**POPULAR OPTIONS:**

Wall mounted Motor Starter  
 Wall mounted Combination Motor Starter  
 Wall mounted Generator Circuit Breaker  
 Unit Mounted Control Cabinet  
 Output Over-Voltage Load Protection <sup>i)</sup>  
 Output voltage adjustment control  
 Output metering, V/A/Hz

**Other Options:**

Reduced voltage motor starter  
 Output Over/Under Voltage Load Protection <sup>i)</sup>  
 Remote control/status <sup>i)</sup>  
 Elapsed time meter  
 Weather protective enclosure  
 i) Requires UMC Option

**MODEL RATINGS**

Model	OUTPUT						INPUT			HxWxD (in)	Wt(lbs)	
	Capacity	KVA	KW	Three Phase Full Load Amps	120/208V.	220V.	220/380V	240/415V	208V			230V
AFCA0042-◆*	4.2	3.4	12	11	6.3	5.8		21	19	9	40 x 24 x 26	500
AFCA0058-◆*	5.8	4.6	16	15	8.8	8		26	24	12	40 x 24 x 26	530
AFCA0084-◆*	8.4	6.7	23	22	13	12		37	34	17	44 x 28 x 28	750
AFCA0120-◆*	12	9.6	33	31	18	16		51	46	23	46 x 28 x 30	800
AFCA0180-◆*	18	14	50	47	27	25		73	66	33	48 x 30 x 32	1,000
AFCA0260-◆*	26	21	72	68	39	36		97	88	44	56 x 34 x 32	1,150
AFCA0390-◆*	39	31	108	102	59	54		138	125	63	60 x 34 x 40	1,650
AFCA0520-◆*	52	42	144	136	79	72		173	157	79	63 x 36 x 40	2,000
AFCA0750-◆*	75	60	208	197	114	104		212	192	96	65 x 36 x 40	2,100
AFCA0900-◆*	90	72	250	236	137	125		309	280	140	68 x 36 x 40	2,450
AFCA1250-◆*	125	100	347	328	190	174		---	---	190	68 x 36 x 44	2,900
AFCA1500-◆*	150	120	416	394	228	208		---	---	215	68 x 36 x 46	3,500
AFCA2000-◆*	200	160	555	525	304	278		---	---	299	71 x 36 x 53	4,000

◆ User must specify desired input characteristics at time of order. \* User must specify desired output characteristics at time of order.

Specifications subject to change without notice.  
 017-0045 rev. 10-18-01

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