

12KVA – 150KVA

THREE PHASE

Model: **AFCF**

Motor-Generator Frequency Converter
Synchronous / Open-Guarded Construction

60 HZ input – 400 HZ output

Description:

Lower cost, motor-generator based frequency converter with the same outstanding voltage and frequency regulation as the AFCE model. Designed specifically to furnish precise electrical power to aerospace, military and other electrical or electronic equipment operating from 400 Hertz power. All models are comprised of a separate brushless synchronous motor & generator and are 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. Reduced voltage motor starter is standard on 75KVA and above.

The AFCF is complete with integral vibration isolation, belt guard, and Motor-Generator connection to a wall mounted Motor Starter and Output Circuit Breaker by the installer.

The AFCF can be ordered separately or with optional controls: (12 to 52Kva)

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

- **GCB Option:** Wall mounted Generator Circuit Breaker.
- **UMC Option:** (Standard on 75Kva to 150Kva) Unit mounted control cabinet complete with built-in Motor Starter, Input and Output Disconnect Switches, Output Over-Voltage Protection and electrical protection.

Electrical Specifications:

INPUT

Voltage: Three phase, three wire plus ground. 208, 230, 460 VAC (as specified) ±10% from nominal
Frequency: 60 Hz
Power Factor: 1.0 @ full-rated load
Protection: Overload & short circuit

OUTPUT

Frequency: 400 Hz ±0.0%, with nominal input
Voltage: Three Phase 120, 120/208, 240/415 VAC (as specified)
Voltage Regulation: ±1%
Voltage Adjustment Range: ±8%
Power Factor: Rated power @ 0.8PF

Overload Capability: 10% for 2 hours, 25% for 10 minutes

Duty: Continuous duty at full-rated load

Protection: Overload & short-circuit Output Over-Voltage (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:

Output metering, V/A/Hz, Selector Switch

Other Options:

- Enhanced output voltage regulation
- Output voltage reconnect switch
- Output receptacle panel
- Dual input voltage
- Reduced voltage motor starter
- Remote control/status
- Elapsed time meter
- Weather protective enclosure

MODEL RATINGS

Model	Capacity		OUTPUT			INPUT			HxWxD (in)	Wt(lbs)
	KVA	KW	120V.	Three Phase Full Load Amps 120/208V 240/415V.		208V.	230V.	460V.		
AFCF0120-◆*	12	9.6	58	33	17	41	37	19	46x28x30	1,000
AFCF0180-◆*	18	14	87	50	25	59	53	27	48x30x32	1,100
AFCF0260-◆*	26	21	125	72	36	82	74	37	56x34x32	1,200
AFCF0390-◆*	39	31	188	108	54	120	109	55	60x34x40	1,650
AFCF0520-◆*	52	42	250	144	72	177	160	80	63x36x40	1,800
AFCF0750-◆*	75	60	361	208	104	221	200	100	65x36x40	2,700
AFCF0900-◆*	90	72	433	250	125	---	232	116	68x36x40	3,200
AFCF1250-◆*	125	100	601	347	174	---	---	166	68x36x44	3,300
AFCF1500-◆*	150	120	722	416	208	---	---	197	68x36x46	4,300

◆ Input Power Code: 208V=N, 230V=P, 460V=R

* Output Power Code: 120V=F, 120/208V=Z, 240/415V=8

Specifications subject to change without notice.
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Advanced Power & Controls, LLC

605 E ALTON AVE STE A • SANTA ANA, CA 92750-5647

Tel (714) 540-9010 • Fax (714) 540-5313

www.AdvancedPowerControls.com