

12KVA – 150KVA

THREE PHASE

Model: **AFC E**

Motor-Generator Frequency Converter
Synchronous / Sound Attenuated Enclosure

60 HZ input – 400 HZ output

Description:

Low cost, motor-generator based frequency converter with outstanding voltage and frequency regulation. 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. A sound attenuated enclosure is provided as standard equipment.

User Controls:

The controls have been designed to offer the most efficient operation, while providing fail-safe electrical protection. Standard user control features include:

- “Start/Stop” pushbuttons
- “Load On/Off” switch

- “Not Ready” indicator
- Output Voltage adjustment control

Electrical Specifications:

INPUT

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

OUTPUT

Frequency: 400 Hz $\pm 0.0\%$, with nominal input
Voltage: Three Phase 120, 120/208, 240/415 VAC (as specified)
Voltage Regulation: $\pm 1\%$
Voltage Adjustment Range: $\pm 8\%$
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

Environmental Characteristics:

Temperature: Operating: 40°C (104°F)
Altitude: 3,300 feet above sea level
Humidity: 0-95% Rh, (non-condensing)
Location: Indoor
Dimensions (h x w x d):
 12-52KVA: 72” x 35” x 50”
 75-125KVA: 72” x 36” x 72”
 150KVA: 80” x 36” x 76”

POPULAR OPTIONS:

Output over-voltage load protection
 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	OUTPUT			INPUT			Wt(lbs)		
	Capacity	Three Phase Full Load Amps		Three Phase Full Load Amps					
	KVA	KW	120V.	120/208V	240/415V.	208V.	230V.	460V.	
AFCE0120-◆*	12	9.6	58	33	17	41	37	19	1,100
AFCE0180-◆*	18	14	87	50	25	59	53	27	1,200
AFCE0260-◆*	26	21	125	72	36	82	74	37	1,300
AFCE0390-◆*	39	31	188	108	54	120	109	55	1,750
AFCE0520-◆*	52	42	250	144	72	177	160	80	1,900
AFCE0750-◆*	75	60	361	208	104	221	200	100	3,200
AFCE0900-◆*	90	72	433	250	125	---	232	116	3,600
AFCE1250-◆*	125	100	601	347	174	---	---	166	3,800
AFCE1500-◆*	150	120	722	416	208	---	---	197	4,800

◆ 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.

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