

10KVA – 320KVA

THREE PHASE

Model: AFA4

60 HZ input – 50 HZ *fixed* output

Electronic Frequency Converter

Description:

The AFA4 model provides isolated three phase, highly regulated 50 Hertz power from a three phase 60 Hertz source. These converters provide precise electrical prime power for operation or testing of electronic or electrical equipment requiring 50 Hertz power.

Installation and operation of the AFA4 is quick and easy. The converter comes ready to install, with built-in input and output circuit breakers behind the front door(s). Start-up and operation is simple using the user friendly LCD Control Panel for reading electrical parameters, event log, and separate LED status indicators.

All models utilize modular PWM-IGBT power control technology, and incorporate soft start circuitry, minimizing disturbances on the input power line during start-up.

User Controls:

The Operator Control Panel is conveniently located on the front of the AFA4, and consists of:

- Inverter Control Enable Push-button
- Inverter On Push-button
- Inverter Off Push-button
- Page Up Key Push-button
- Page Down Key Push-button
- Enter Key Push-button

- Audible Alarm
- Inverter Status Panel:
 - Inverter On LED Indicator
 - Inverter Output Normal LED Indicator
 - Short Circuit LED Indicator
 - Blown Fuse/Over Temp LED Indicator
 - Inverter Fail Shutdown LED Indicator
 - High DC Shutdown LED Indicator
 - Overload Shutdown LED Indicator
- Load Status Panel:
 - 70, 110, 125, 150% Load LED Indicators
- DC Status Panel:
 - DC Low LED Indicator
 - DC Low Shutdown LED Indicator
 - Rectifier AC Fail LED Indicator
 - Rotation Error LED Indicator
 - Rectifier Shutdown LED Indicator
 - High DC LED Indicator
 - Fault LED Indicator
- Mimic Status Panel:
 - Rectifier On LED Indicator
 - Inverter On LED Indicator
 - AC Output LED Indicator
- Real Time Data, LCD Display:
 - Input Voltage, L-L
 - Input Frequency
 - Internal DC Bus Voltage
 - Output Voltage, L-N or L-L
 - Output Percent of Load
 - Output Frequency
 - Internal Ambient Temperature
 - Time / Date
 - Historical Event Records, (77)
 - System Abnormal Warnings

Electrical Specifications:

INPUT

Voltage: Three phase, three wire plus safety ground. 208, 240, 480 VAC (as specified) ±10% from nominal
Frequency: 60 Hz
Protection: Input Circuit Breaker, Electronic overload & short circuit, Over-Voltage, Under-Voltage, Phase Reversal. Soft Start circuit limits inrush current

OUTPUT

Frequency: 50 Hz ±0.1%
Voltage: Three Phase 120/208, 220, 220/380, 240/415 VAC (as specified)
Voltage Regulation: ±1%
Power Factor: 0.8PF
Distortion: ≤ 3% THD, (linear load)
Duty: Continuous duty at full-rated load
Protection: Output Circuit Breaker, Electronic overload & short-circuit, Over/Under Voltage, Over-temperature

Environmental Characteristics:

Temperature: Operating: 40°C (104°F)
Humidity: 0-90% Rh, (non-condensing)
Altitude: 5,000 Ft Above Sea Level
Location: Indoor

POPULAR OPTIONS:

Output Voltage Adjustment Control
 Caster Wheels
 NEMA 12 Enclosure

MODEL RATINGS

Model	OUTPUT						INPUT			HxWxD (in)	Wt(lbs)
	Capacity		Three Phase Full Load Amps				Three Phase Full Load Amps (approx)				
	KVA	KW	120/208V.	220V.	220/380V.	240/415V	208V	240V	480V		
AFA40100-◆*	10	8	27	26	15	14	35	30	15	69 x 26 x 34	670
AFA40200-◆*	20	16	56	53	30	28	67	58	29	69 x 26 x 34	750
AFA40300-◆*	30	24	83	79	45	42	99	86	43	69 x 26 x 34	1,000
AFA40400-◆*	40	32	111	105	61	56	134	116	58	73 x 26 x 34	1,220
AFA40500-◆*	50	40	139	131	76	70	166	144	72	73 x 26 x 34	1,140
AFA40600-◆*	60	48	167	158	91	84	198	172	86	73 x 46 x 34	1,580
AFA40800-◆*	80	64	222	210	122	111	265	230	115	73 x 46 x 34	1,900
AFA41000-◆*	100	80	278	263	152	139	332	288	144	73 x 46 x 34	2,200
AFA41200-◆*	120	96	333	315	183	167	399	346	173	73 x 46 x 34	2,700
AFA41600-◆*	160	128	444	420	243	223	531	460	230	73 x 46 x 34	3,300
AFA42000-◆*	200	160	555	525	304	279	639	554	277	73 x 89 x 34	4,500
AFA42400-◆*	240	192	667	630	365	334	768	666	333	73 x 89 x 34	5,100
AFA43000-◆*	300	240	833	788	456	418	960	832	416	73 x 89 x 34	5,900
AFA43200-◆*	320	256	889	841	487	446	1022	886	443	73 x 89 x 34	6,500

◆ Input Power Code: 208V=N, 240V=P, 480V=R * Output Power Code: 120/208V=V, 220=S, 220/380=W, 240/415V=X

Specifications subject to change without notice.
 017-0047 Rev. 07/03/08

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