



V.2006

# alfa 209

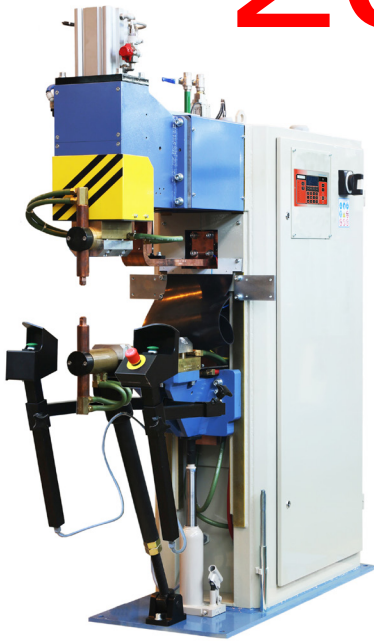
## Spot welding



*Alternative Current - Medium Frequency 1000 Hz*  
*Pneumatic Drive - Servo Drive*



# alfa 209



## MFC-3000

Medium Frequency Inverter with adaptative controller



### Equipment:

- Pneumatic circuit with single pressure system
- I/O water valves 1/2".
- Air Inlet valve 1/2".
- Electric pedal
- Isolator
- Adjustable hydraulic jack in lower arm
- CE Safety Norms 2006/42/CE

### Optionals:

- Circuit breaker (incorporated in MF welders)
- Distance between arms 550 mm
- Servo driven head. Force 750 daN.
- Pneumatic circuit with counterpressure system
- Proportional valve
- Flowmeter
- Elastomer for head tracking
- Automation integration set

### Technical features

Main Voltage	V	400 (50 Hz)
Electrode diameter (conical 10°)	mm	19
Electrode holder diameter	mm	35
Arms diameter	mm	70
Distance between arms min/max	mm	140-450
Cylinder stroke	mm	100
Cycles per minute (10 mm gap)	m/min	90

### ORDER CODE

#### Welding type

- A- Spot welding (Alfa Series)
- B- Projection welding (Beta)
- C- Microwelding
- D- Seam welding (Gamma)

#### Structure dimensions

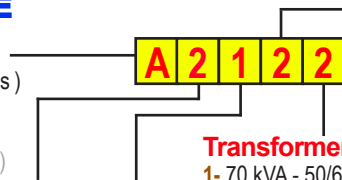
- 1- 300 daN (Alfa 10)
- 2- 900 daN (Alfa 209)
- 3- 1400 daN (Alfa 314)
- 4- 1800 daN

#### Transformer

- 1- 70 kVA - 50/60Hz
- 2- 100 kVA - 50/60Hz
- 3- 125 kVA - 50/60Hz
- 4- 100 kVA - 1000Hz
- 5- 150 kVA - 1000Hz
- 6- 170 kVA - 1000Hz
- 7- 200 kVA - 1000Hz

#### Force unit

- 1- 300 daN - Single pressure
- 2- 450 daN - Single pressure
- 3- 450 daN - Double pressure
- 4- 450 daN - Double stroke
- 5- 750 daN - Simple pressure
- 6- 750 daN - Double pressure
- 7- 750 daN - Double stroke
- 8- 900 daN - Single pressure
- 9- 900 daN - Double pressure
- 0- Servo head



Alfa 209 - MACHINE CODES		A2122	A2152	A2153	A2183	A2124	A2186	A2222	A2253	A2224	A2256	A2323
Welding frequency	Hz	50	50	50	50	1000	1000	50	50	1000	1000	50
Power at 50 % D.C.	kVA	100	100	125	125	100	170	100	125	100	170	125
DIN throat depth	mm	400	400	400	400	400	400	600	600	600	600	750
Force at 6 bar	daN	450	750	750	900	450	900	450	750	450	750	450
Max. short circuit current (5 periods)	kA	40	40	50	50	26	45	35	42	26	45	38
Max. welding current (5 periods)	kA	32	32	40	40	26	45	28	33	26	45	30
Air consumption 50mm / 6 bar	NI	2,67	4,17	4,17	5,34	2,67	5,34	2,67	4,70	2,67	4,17	2,67
Cooling water consumption	l/h	360	360	360	360	720	720	360	360	720	720	360
Lower arm	-	-	-	-	-	-	-	•	•	•	•	•
Admissible power	kVA	200	200	250	250	160	250	200	250	160	250	250
Delayed fuses	A	200	200	250	250	160	250	200	250	160	250	250
Main supply section by phase	mm <sup>2</sup>	90	90	120	120	70	120	90	120	70	120	120
Secondary voltage	V	7,7/9	7,7/9	8,6/11	8,6/11	10	10	7,7/9	8,6/11	10	10	8,6/11
Width	mm	500	500	500	500	500	500	500	500	500	500	500
Length	mm	1230	1230	1230	1230	1230	1230	1630	1630	1630	1630	1790
Heigh	mm	1893	1893	1893	2152	1893	2152	1893	1893	1893	1893	1893
Weight	kg	610	620	640	640	580	600	610	630	580	600	660
Medium Frequency Inverter	MFC	-	-	-	-	3007	3015	-	-	3007	3015	-



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