



Minarc M 223 Auto GM

MIM223GM

Premium portable 110/240V MIG/MAG welding machine providing 220 A @ 20% duty cycle from a 1-phase mains supply and weighs 12 kg.

Manual and synergic welding options available. The power source can be used with a generator and it includes five memory channels.

Compatible with a wide range of materials, including steel (Fe), stainless steel (Ss), aluminum (Al), CuSi, Flux cored and Gasless filler wires.

Package includes power source, gas hose, drive roll, shoulder strap, earth return, power cable plug, gun handle and welding torch.

Technical data

Description	Value
Mains connection voltage	220...240 V $\pm$ 10 %
Mains connection voltage (MV low range)	110...120 V $\pm$ 10 %
Mains connection phases	1~50/60 Hz
Mains connection cable type	3G, H07RN-F
Mains connection cable size	2.5 mm ²
Rated maximum input power [S1max]	7 kVA
Mains fuse	16 A
Mains fuse (@MV low range)	15 A

Description	Value
Idle state power consumption [P _{idle}]	10 W
Output, duty cycle % at rated max. current, MIG	20 %
Output at +40 °C, rated max current, MIG	220 A
Output at +40 °C, 60% MIG	160 A
Output at +40 °C, 100% MIG	140 A
Output, duty cycle % at rated max. current, MIG (@MV low range)	20 %
Output at +40 °C, rated max current, MIG (@MV low range)	120 A
Output at +40 °C, 60% MIG (@MV low range)	95 A
Output at +40 °C, 100% MIG (@MV low range)	75 A
Output range, MIG	15 A / 11 V ... 220 A / 28 V
Output range, MIG (@MV low range)	15 A / 11 V ... 120 A / 23 V
Voltage adjustment range, MIG	10 ... 32 V
Power factor at rated maximum current [λ]	1
Efficiency at rated maximum current [η]	85 %
EMC class	A
Welding connection type	Built-in
Wire feed mechanism	Single-motor, 2-roll
Diameter of feed rolls	30 mm
Filler wire diameter, Fe	0.6 ... 1.2 mm
Filler wire diameter, Fe-MC/FC	1 ... 1.2 mm
Filler wire diameter, Ss	0.6 ... 1 mm
Filler wire diameter, Al	0.8 ... 1.2 mm
Wire feed speed	0.5 ... 18 m/min
Maximum wire spool weight	5 kg
Maximum wire spool diameter	200 mm
Operating temperature	-20 ... 40 °C
Storage temperature	-40 ... 60 °C
Recommended minimum generator power [S _{gen}]	8 kVA
Degree of protection (fully installed)	IP23
External dimensions, length	460 mm
External dimensions, width	221 mm
External dimensions, height	365 mm
Weight without accessories	12 kg

Description		Value
Standards		IEC 60974-1, -10