



Minarc T 223 ACDC GM

MIT223ACDCGM

Professional and portable multi-voltage 110/230V welding power source for DC and AC TIG welding. Includes pulse, memory channels, remote control options, and MMA. Minarc T 223 ACDC offers 220 A @ 20% duty cycle from a 1-phase mains supply, weighing 16.8 kg. It also includes the MAX WeldClean process in a standard delivery.

Technical data

Description	Value
Mains connection voltage	220...240 V ± 10 %
Mains connection voltage (MV low range)	110...120 V ± 10 %
Mains connection phases	1~50/60 Hz
Mains connection cable type	3G, H07RN-F
Mains connection cable size	2.5 mm ²
Maximum supply current [I _{lmax}]	25 A
Maximum supply current (@MV low range) [I _{lmax}]	25 A

Description	Value
Effective supply current [I_{leff}]	16 A
Effective supply current (@MV low range) [I_{leff}]	16 A
Rated maximum input power [$S_{1\text{max}}$]	5.5 kVA
Mains fuse	16 A
Mains fuse (@MV low range)	16 A
No-load voltage (MMA/TIG) [U_0]	101 V
No-load voltage (MMA) [U_r]	96 V
No-load voltage (MMA) VRD [U_r VRD]	21 V
Open circuit voltage (MMA) [U_{av}]	95 V
Idle power	10 W
Output, duty cycle % at rated max. current, TIG	20 %
Output at +40 °C, rated max current, TIG	220 A
Output at +40 °C, 60% TIG	170 A
Output at +40 °C, 100% TIG	160 A
Output, duty cycle % at rated max. current, MMA	35 %
Output at +40 °C, rated max current, MMA	170 A
Output at +40 °C, 60% MMA	130 A
Output at +40 °C, 100% MMA	110 A
Output, duty cycle % at rated max. current, TIG (@MV low range)	40 %
Output at +40 °C, rated max current, TIG (@MV low range)	130 A
Output at +40 °C, 60% TIG (@MV low range)	110 A
Output at +40 °C, 100% TIG (@MV low range)	90 A
Output, duty cycle % at rated max. current, MMA (@MV low range)	40 %
Output at +40 °C, rated max current, MMA (@MV low range)	90 A
Output at +40 °C, 60% MMA (@MV low range)	70 A
Output at +40 °C, 100% MMA (@MV low range)	60 A
Output range, TIG	5 A / 8 V ... 220 A / 20 V
Output range, MMA	15 A / 15 V ... 170 A / 34 V
Output range, TIG (@MV low range)	5 A / 8 V ... 130 A / 16 V
Output range, MMA (@MV low range)	15 A / 15 V ... 90 A / 30 V
Power factor at rated maximum current [λ]	1
Efficiency at rated maximum current [η]	83 %

Description	Value
EMC class	A
Stick electrode diameter	1.6 mm...4 mm
Voltage supply for cooling unit	220...240 V
Welding connection type	R1/4
Wired communication type	Analog
Arc striking voltage	12 kV
Operating temperature	-20 °C...40 °C
Storage temperature	-40 °C...60 °C
Recommended minimum generator power [Sgen]	8 kVA
Degree of protection (fully installed)	IP23
External dimensions, length	520 mm
External dimensions, width	250 mm
External dimensions, height	379 mm
Weight without accessories	16.8 kg
Standards	EN IEC 60974-1, -3, -10 IEC 61000-3-12