

Technical data

Special Voltage For devices designed for special voltages, the technical data on the rating plate applies.

Artis 170 EF, Artis 170 np

Mains voltage U_1	1 x 230 V
Max. effective primary current ($I_{1\text{eff}}$)	11.3 A
Max. primary current ($I_{1\text{max}}$)	15.0 A
Mains voltage tolerance	-30% / +15%
Mains frequency	50/60 Hz
Mains fuse	16 A slow-blow
Mains connection ¹⁾	Z_{max} at PCC ³⁾ = 356 MOhm
Primary continuous power (100% D.C. ²⁾)	2.7 kVA
Max. apparent power $S_{1\text{max}}$	3.5 kVA
Cos phi	0.99
Welding current range	
TIG	3 - 170 A
MMA	10 - 150 A
Welding current at 10 min / 40 °C (104 °F), $U_1 = 230$ V	
TIG	40% D.C. ²⁾ / 170 A 60% D.C. ²⁾ / 155 A 100% D.C. ²⁾ / 140 A
MMA	40% D.C. ²⁾ / 150 A 60% D.C. ²⁾ / 120 A 100% D.C. ²⁾ / 110 A
Open circuit voltage (pulsed)	
TIG	35 V
MMA	101 V
Working voltage	
TIG	10.1 - 16.8 V
MMA	20.4 - 26.0 V
Striking voltage U_p	9.0 kV
The arc ignition device is suitable for manual operation	
Protection class	Protection class 23
Type of cooling	AF

Insulation class	A
EMC emission class (according to EN/IEC 60974-10)	A
Overvoltage category	III
Pollution degree according to IEC60664	3
Ambient temperature	-10 °C - +40 °C / +14 °F - +104 °F
Storage temperature	-25 °C - +55 °C / -13 °F - +131 °F
Dimensions l x w x h	435 x 160 x 310 mm / 17.1 x 6.3 x 12.2 in.
Weight	9.8 kg / 21.61 lb.
Mark of conformity	CE
Safety symbols	S
Max. shielding gas pressure	5 bar/73 psi
Noise emissions (L _{WA})	68.0 dB(A)
Idle state power consumption at 230 V	15 W
Energy efficiency of the welding system at 150 A / 26 V	88%

**Artis 170 MV/B,
Artis 170 MV/np**

Mains voltage	1 x 120 V / 1 x 230 V
Max. effective primary current ($I_{1\text{eff}}$)	
1 x 120 V	14.5 A
1 x 230 V	11.3 A
Max. primary current ($I_{1\text{max}}$)	
1 x 120 V	22.7 A
1 x 230 V	15.0 A
Mains voltage tolerance	
1 x 120 V	-20% / +15%
1 x 230 V	-30% / +15%
Mains frequency	50/60 Hz
Mains fuse	
1 x 120 V	20 A slow-blow
1 x 230 V	16 A slow-blow
Mains connection ¹⁾	Z_{max} at PCC ³⁾ = 356 MOhm
Primary continuous power (100% D.C. ²⁾)	
1 x 120 V	1.8 kVA
1 x 230 V	2.7 kVA
Max. apparent power $S_{1\text{max}}$	
1 x 120 V	2.8 kVA
1 x 230 V	3.5 kVA
Cos phi	0.99
Welding current range	
TIG / 1 x 120 V	3 - 140 A
TIG / 1 x 230 V	3 - 170 A
Stick electrode / 1 x 120 V	10 - 100 A
Stick electrode / 1 x 230 V	10 - 150 A
Welding current at 10 min / 40 °C (104 °F)	
TIG / 1 x 120 V	40% D.C. ²⁾ / 140 A 60% D.C. ²⁾ / 120 A 100% D.C. ²⁾ / 100 A
TIG / 1 x 230 V	40% D.C. ²⁾ / 170 A 60% D.C. ²⁾ / 155 A 100% D.C. ²⁾ / 140 A
Stick electrode / 1 x 120 V	40% D.C. ²⁾ / 100 A 60% D.C. ²⁾ / 90 A 100% D.C. ²⁾ / 80 A

Stick electrode / 1 x 230 V	40% D.C. ²⁾ / 150 A 60% D.C. ²⁾ / 120 A 100% D.C. ²⁾ / 110 A
Open circuit voltage (pulsed)	
TIG	35 V
MMA	101 V
Working voltage	
TIG / 1 x 120 V	10.1 - 15.6 V
TIG / 1 x 230 V	10.5 - 16.8 V
Stick electrode / 1 x 120 V	20.4 - 24.0 V
Stick electrode / 1 x 230 V	20.4 - 26.0 V
Striking voltage U_p	9 kV
The arc ignition device is suitable for manual operation	
Protection class	Protection class 23
Type of cooling	AF
Insulation class	A
EMC emission class (according to EN/IEC 60974-10)	A
Overvoltage category	III
Pollution degree according to IEC60664	3
Ambient temperature	-10 °C - +40 °C / +14 °F - +104 °F
Storage temperature	-25 °C - +55 °C / -13 °F - +131 °F
Dimensions l x w x h	435 x 160 x 310 mm / 17.1 x 6.3 x 12.2 in.
Weight	9.8 kg / 21.61 lb.
Mark of conformity	CE, CSA
Safety symbols	S
Max. shielding gas pressure	5 bar/73 psi
Noise emissions (L_{WA})	68.0 dB(A)
Idle state power consumption at 230 V	15 W
Energy efficiency of the welding system at 150 A / 26 V	88%

**Artis 210 EF,
Artis 210 np**

Mains voltage U_1	1 x 230 V
Max. effective primary current ($I_{1\text{eff}}$)	13.5 A
Max. primary current ($I_{1\text{max}}$)	20.0 A
Mains voltage tolerance	-30% / +15%
Mains frequency	50/60 Hz
Mains fuse	16 A slow-blow
Mains connection ¹⁾	Z_{max} at PCC ³⁾ = 261 MOhm
Primary continuous power (100% D.C. ²⁾)	3.2 kVA
Max. apparent power $S_{1\text{max}}$	4.6 kVA
Cos phi	0.99
Welding current range	
TIG	3 - 210 A
MMA	10 - 180 A
Welding current at 10 min / 40 °C (104 °F), $U_1 = 230$ V	
TIG	40% D.C. ²⁾ / 210 A 60% D.C. ²⁾ / 185 A 100% D.C. ²⁾ / 160 A
MMA	40% D.C. ²⁾ / 180 A 60% D.C. ²⁾ / 150 A 100% D.C. ²⁾ / 120 A
Open circuit voltage (pulsed)	
TIG	35 V
MMA	101 V
Working voltage	
TIG	10.1 - 18.4 V
MMA	20.4 - 27.2 V
Striking voltage U_p	9.0 kV
The arc ignition device is suitable for manual operation	
Protection class	Protection class 23
Type of cooling	AF
Insulation class	A
EMC emission class (according to EN/IEC 60974-10)	A
Overvoltage category	III
Pollution degree according to IEC60664	3

Ambient temperature	-10 °C - +40 °C / +14 °F - +104 °F
Storage temperature	-25 °C - +55 °C / -13 °F - +131 °F
Dimensions l x w x h	435 x 160 x 310 mm / 17.1 x 6.3 x 12.2 in.
Weight	9.8 kg / 21.61 lb.
Mark of conformity	CE
Safety symbols	S
Max. shielding gas pressure	5 bar/73 psi
Noise emissions (L _{WA})	68.0 dB(A)
Idle state power consumption at 230 V	15 W
Energy efficiency of the welding system at 150 A / 26 V	88%

**Artis 210 MV/B,
Artis 210 MV/np**

Mains voltage	1 x 120 V / 1 x 230 V
Max. effective primary current ($I_{1\text{eff}}$)	
1 x 120 V	18.0 A
1 x 230 V	13.5 A
Max. primary current ($I_{1\text{max}}$)	
1 x 120 V	29.0 A
1 x 230 V	20.0 A
Mains voltage tolerance	
1 x 120 V	-20% / +15%
1 x 230 V	-30% / +15%
Mains frequency	50/60 Hz
Mains fuse	
1 x 120 V	20 A slow-blow
1 x 230 V	16 A slow-blow
Mains connection ¹⁾	Z_{max} at PCC ³⁾ = 261 MOhm
Primary continuous power (100% D.C. ²⁾)	
1 x 120 V	2.2 kVA
1 x 230 V	3.2 kVA
Max. apparent power $S_{1\text{max}}$	
1 x 120 V	3.5 kVA
1 x 230 V	4.6 kVA
Cos phi	0.99
Welding current range	
TIG / 1 x 120 V	3 - 170 A
TIG / 1 x 230 V	3 - 210 A
Stick electrode / 1 x 120 V	10 - 120 A
Stick electrode / 1 x 230 V	10 - 180 A
Welding current at 10 min / 40 °C (104 °F)	
TIG / 1 x 120 V	40% D.C. ²⁾ / 170 A 60% D.C. ²⁾ / 150 A 100% D.C. ²⁾ / 120 A
TIG / 1 x 230 V	40% D.C. ²⁾ / 210 A 60% D.C. ²⁾ / 185 A 100% D.C. ²⁾ / 160 A
Stick electrode / 1 x 120 V	40% D.C. ²⁾ / 120 A 60% D.C. ²⁾ / 100 A 100% D.C. ²⁾ / 90 A

Stick electrode / 1 x 230 V	40% D.C. ²⁾ / 180 A 60% D.C. ²⁾ / 150 A 100% D.C. ²⁾ / 120 A
Open circuit voltage (pulsed)	
TIG	35 V
MMA	101 V
Working voltage	
TIG / 1 x 120 V	10.1 - 16.8 V
TIG / 1 x 230 V	10.1 - 18.4 V
Stick electrode / 1 x 120 V	20.4 - 24.8 V
Stick electrode / 1 x 230 V	20.4 - 27.2 V
Striking voltage U_p	9 kV
The arc ignition device is suitable for manual operation	
Protection class	Protection class 23
Type of cooling	AF
Insulation class	A
EMC emission class (according to EN/IEC 60974-10)	A
Overvoltage category	III
Pollution degree according to IEC60664	3
Ambient temperature	-10 °C - +40 °C / +14 °F - +104 °F
Storage temperature	-25 °C - +55 °C / -13 °F - +131 °F
Dimensions l x w x h	435 x 160 x 310 mm / 17.1 x 6.3 x 12.2 in.
Weight	9.9 kg / 21.8 lb.
Mark of conformity	CE, CSA
Safety symbols	S
Max. shielding gas pressure	5 bar/73 psi
Noise emissions (L_{WA})	68.0 dB(A)
Idle state power consumption at 230 V	15 W
Energy efficiency of the welding system at 150 A / 26 V	88%

Explanation of footnotes

/EF	Welding system with mains cable fitted
/np	Welding system with mains cable fitted and without plug for the public grid
/B	Welding system with mains cable to plug in