Master T 355 DC

MST355DC

A professional DC TIG welder delivers 350 A from a 3-phase 400 V power supply.

Technical data

Description	Value
Mains connection voltage	380...460 V ±10 %
Mains connection phases	3~50/60 Hz
Mains connection cable type	4G, H07RN-F
Mains connection cable size	2.5 mm²
Maximum supply current [I1max]	16 ... 13 A
Effective supply current [I1eff]	11 ... 10 A
Rated maximum input power [S1max]	12 kVA

Description	Value
Mains fuse	16 A
No-load voltage, MMA/TIG [U0]	75 … 95 V
Idle power	20 W
Output, duty cycle % at rated max. current, TIG	30 %
Output at +40 °C, rated max current, TIG	350 A
Output at +40 °C, 60% TIG	230 A
Output at +40 °C, 100% TIG	190 A
Output, duty cycle % at rated max. current, MMA	35 %
Output at +40 °C, rated max current, MMA	270 A
Output at +40 °C, 60% MMA	230 A
Output at +40 °C, 100% MMA	190 A
Output range, TIG	5 A / 1 V … 350 A / 38 V
Output range, MMA	10 A / 10 V … 270 A / 39 V
Power factor at rated maximum current [λ]	0.93
Efficiency at rated maximum current [η]	89 %
EMC class	A
Minimum short-circuit power of supply network [Ssc]	1.7 MVA
Stick electrode diameter	1.6 … 6 mm
Voltage supply for cooling unit	380…460 V
Welding connection type	R1/4
Wired communication type	Analog, Kemppi Remote-Bus
Wireless communication type	Bluetooth
Transmitter frequency and power	2400…2483.5 MHz, 10 dBm
Operating temperature	-20 … 40 °C
Storage temperature	-40 … 60 °C
Recommended minimum generator power [Sgen]	20 kVA
Degree of protection (fully installed)	IP23
External dimensions, length	544 mm
External dimensions, width	205 mm
External dimensions, height	443 mm
Weight without accessories	21 kg
Standards	IEC 60974-1,-3,-10, IEC 61000-3-12, GB 15579.1