ALTERNATOR SPW10 120AC

AC brushless welder

Technical Data Sheet

SPW10 120AC

COMMON DATA

Rated Power at 50Hz	kVA	3.5	
Rated Power at 60Hz	kVA	4.2	
Rated Power Factor		1	
Nominal Temperature	°C	40	
Control System		self excited	
Execution		brushless	
Regulation Type		capacitor	
Insulation Class		H	
Protection		IP21	
Maximum Overspeed	rpm	4500	
Overload		110% of rated power for one hour in a cycle of 6 hours	
Air Flow Requirement	m^3/min	3.7 at 50Hz	4.6 at 60Hz
R.F.I. Suppression		Standard EN55011	

REGULATION DATA

Regulation		Capacitor
Capacitor	µF	30
Voltage Regulation		±5%

ALTERNATOR TECHNICAL CHARACTERISTICS

Rotor Winding		with damping cage
Number of Leads of Stator		2
Stator Winding Resistance	Ω	0.7 at 20°C
Rotor Winding Resistance	Ω	4.2 at 20°C

STANDARD

References	EN60034-1 ISO8528-3 EN55011

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WELDER TECHNICAL CHARACTERISTICS

No load voltage	V_{AC}	52
Welding voltage	V_{AC}	20-26
Regulation range	A_{AC}	60-120
Max. current at 35%	A_{AC}	120
Max. current at 60%	A_{AC}	90
Max. current at 100%	A_{AC}	70
Stator Winding Resistance	Ω	0.073 at 20°C
Electrodes type		acid; inox; rutile
Electrodes diameter	mm	1-3,25

MECHANICAL DATA

Bearing non drive end			6204-2Z-C3
Bearing drive end (B3/B14 form)			\
Weight of generator	in B2	kg	\
	in B3/B14	kg	\
	in B3/B9	kg	27.3

MOMENT OF INERZIA

B3/B9	$kg \cdot m^2$	0.014
SAE 7½	$kg \cdot m^2$	\
SAE 8	$kg \cdot m^2$	\
SAE 10	$kg \cdot m^2$	\
SAE 11½	$kg \cdot m^2$	\
SAE 14	$kg \cdot m^2$	\
SAE 18	$kg \cdot m^2$	\
B3/B14	$kg \cdot m^2$	\

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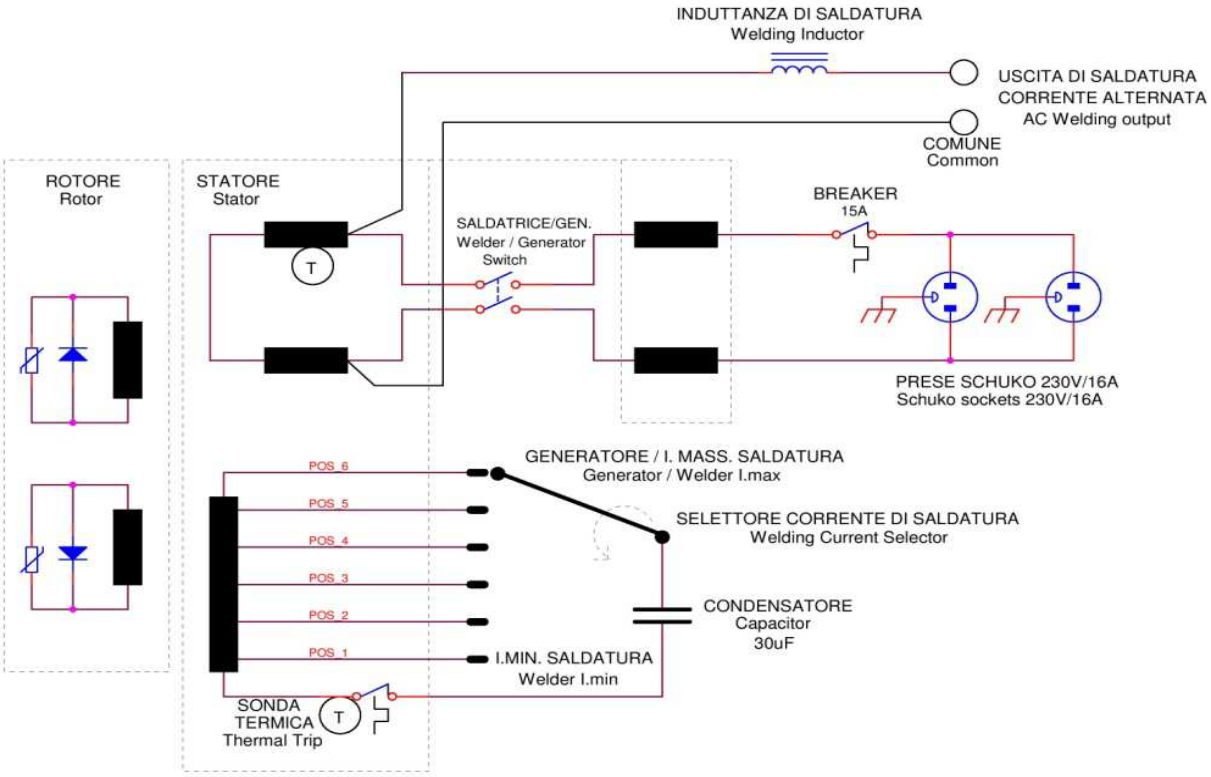
POWER VARIATION ACCORDING TO TEMPERATURE AND ALTITUDE

	Ambient temperature				
Altitude	25°C	40°C	45°C	50°C	55°C
< 1000m	1.09	1	0.96	0.93	0.91
1000m - 1500m	1.01	0.96	0.92	0.89	0.87
1500m - 2000m	0.96	0.91	0.87	0.84	0.83
2000m - 3000m	0.9	0.85	0.81	0.78	0.76

WIRING DIAGRAM



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