Induction heating transistor generators SMBC Type

The SMBC generator series retains the traditional advantages of the Transithermic® family of generators (high reliability, easy use, and superior efficiency) in a series oscillating circuit and a compact design, with cooling included in the generator cabinet.

The standard version of this digital series generator includes a MPC-1 (Multipurpose Process Control) which enables the generator parameters and configuration display.

The temperature of the process can be controlled with the MPC-1 or with a PLC through Interbus or Profibus interface.

The SMBC generator is the most suitable solution for low and medium power, in induction heating applications at medium frequencies between 0,5 and 20 kHz.

A 50 SMBC generator fitted with MPC-1 control system.

The R-3 cooling equipment is at the lower part of the cabinet.

Transithermic®

SMBC type transistor generator for induction heating
Medium frequency with series oscillating circuit

General features

- Design for series oscillating circuit
- Frequency: 0,5 kHz to 20 kHz
- Power: 6 kW to 50 kW
- Input voltage: 380 - 400 V; 50 or 60 Hz
- Efficiency: up to 90%
- Modular design with plug-in power control cards
- Protection: IP 54 (standard) or IP 55
- MPC-1 (Multipurpose Process Control) included in standard version

The Transithermic® transistor generators can work in variable frequencies. The frequency is automatically coupled to the load, in every application, inside a wide range.

Technical features

Type		6SMBC	12SMBC	30SMBC	40SMBC
Output continuous power	kW	6	12	30	40
Frequency		[0.5, 20] kHz			
Power supply	kVA	7,5	15	38	50
Voltage supply		380 – 440 VAC, 50/60 Hz			
Generator width	mm	600	600	600	600
Generator depth	mm	600	600	600	600
Generator height	mm	1725	1725	1725	1725
Width with R-3 cooling system	mm	600	600	600	600
Depth with R-3 cooling system	mm	600	600	600	600
Height with R-3 cooling system	mm	1725	1725	1725	1725
Water temperature min/max		20ºC / 37ºC			
Water supply		1''	1''	1''	1''
Waterflow	l/min	10	10	10	10

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