



Brusatori
MOTORI ELETTRICI

Special applications

Generators

Electrical Datasheet

Generator BRV9590X – Electrical datasheet

BR generator – 19.9 kW Servo-ventilated – IP23S			
Nominal power (S1 duty)	P_N	W	19900
Apparent power (S1 duty)	S_N	VA	19900
Nominal frequency	f_N	Hz	63.33
Nominal speed	n_N	rpm	950
Peak torque 20°C	T_{max}	Nm	370
Nominal current ¹⁾	I_N	Arms	29
Peak current ¹⁾	I_{max}	Arms	55
Rotor inertia	J_m	kgcm ²	430
Voltage constant 20°C ¹⁾	k_e	Vs/rad	4.05
Torque constant 20°C with stall rotor ¹⁾	k_t	Nm/Arms	7.48
k_e and k_t reduction coeff. over temperature ¹⁾	dk/dt	[%/°C]	-0.11
Winding resistance 20°C ¹⁾	R_c	Ohm	0.413
Winding inductance ¹⁾	L_c	mH	12.4
Nominal voltage ¹⁾	V_n	Vrms	396
Efficiency	η	%	92
Weight	m	kg	134
Number of poles	$2p$		8

¹⁾ Nominal values. Tolerance $\pm 10\%$

Note: Power factor can vary due to the inverter. Data are referred to power factor =1.

Generator BRKS 250-7 – Electrical datasheet

BRKS 250-7 950 rpm – IP20			
Nominal power (S1 duty)	P_N	W	59900
Apparent power (S1 duty)	S_N	VA	59900
Nominal speed	n_N	rpm	950
Peak torque 20°C	T_{max}	Nm	1901
Nominal current ¹⁾	I_N	Arms	71
Voltage constant 20°C ¹⁾	k_e	Vs/rad	4.42
Torque constant 20°C with stall rotor ¹⁾	k_t	Nm/Arms	7.17
k_e and k_t reduction coeff. over temperature ¹⁾	dk/dt	[%/°C]	-0.09
Rotor inertia	J_m	kgcm ²	11510
Winding resistance 20°C ¹⁾	R_c	Ohm	0.11
Winding inductance ¹⁾	L_c	mH	6.25
Nominal voltage ¹⁾	V_n	Vrms	487
Efficiency	η	%	95
Weight	m	kg	353
Number of poles	$2p$		12

¹⁾ Nominal values. Tolerance $\pm 10\%$

Note: Power factor can vary due to the inverter. Data are referred to power factor =1.

Generator BRKS 250-10 – Electrical datasheet

BRKS 250-10 1050 rpm – IP20			
Nominal power (S1 duty)	P_N	W	99500
Apparent power (S1 duty)	S_N	VA	99500
Nominal frequency	f_N	Hz	105
Nominal speed	n_N	rpm	1050
Peak torque 20°C	T_{max}	Nm	-
Nominal current ¹⁾	I_N	Arms	144
Voltage constant 20°C ¹⁾	k_e	Vs/rad	3.95
Torque constant 20°C with stall rotor ¹⁾	k_t	Nm/Arms	6.29
k_e and k_t reduction coeff. over temperature ¹⁾	dk/dt	[%/°C]	-0.09
Winding resistance 20°C ¹⁾	R_c	Ohm	0.06
Winding inductance ¹⁾	L_c	mH	3.5
Nominal voltage ¹⁾	V_n	Vrms	399
Efficiency	η	%	95
Weight	m	kg	455
Number of poles	$2p$		12

¹⁾ Nominal values. Tolerance $\pm 10\%$

Note: Power factor can vary due to the inverter. Data are referred to power factor =1.