

JB4 BRUSHLESS 4 POLE ALTERNATORS

INSULATION CLASS	H
LEADS	12
EXCITATION SYSTEM	Brushless
VOLTAGE REGULATOR TYPE	AVR BL3
VOLTAGE REGULATION ACCURACY	[*] ± 1 %
SHORT CIRCUIT CURRENT	> 300 % I _n
WINDING PITCH	2/3
TOTAL HARMONIC CONTENT	[**] < 2,5 %
TELEPHONE HARMONIC FACTOR	[**] < 3 %
ELECTROMAGNETIC COMPATIBILITY	EN 5501 EN 5008-1, EN 50082-2
UNDERSPEED PROTECTION	AVAILABLE ON STANDARD VERSION
PROTECTION DEGREE	IP 21

[*] With load from 0 to 100%, speed variation from -2 % to + 5 %, power factor 0,8 and balanced load

RANGE

50 HZ

35 KVA - 105 KVA @ 1500 RPM

60 HZ

42 KVA - 125 KVA @ 1800 RPM

BY

GETEC

TECHNICAL INFORMATION

Standards:
IEC 34.1, IEC 34.5, IEC 34.22, EN 55011, EN 5008-1, EN 50082-2

Patent:

The JB4 series uses a Sinor patented system for the stator locking in the housing.

Protection degree:

Standard is IP21; higher protection degree can be supplied on request.

Bearings:

Bearings are dimensioned for heavy duty

Transient features:

Transient voltage drop for rated step load at 0.8 power factor is less than 18%.

Single phase operation:

The JB4 series can be connected for single phase use.

[**] Line to line, at no load or at full linear and balanced load

		RATINGS										Efficiency			
		S1 40/05 °C cl. F				S1 40/25 °C cl. H				Stand by 27/63°C		S1 40/25 °C 4/4			
50 Hz 500 rpm		3 ph.		1 ph.	3 ph.		1 ph.	3 ph.		1 ph.	3 ph.				
Voltage Y		380	400	415	400	380	400	415	400	380	400	415	400	400	
Voltage YY		190	200	208	200	190	200	208	200	190	200	208	200	200	
Voltage		220	230	240	230	220	230	240	230	220	230	240	230	230	
Voltage		110	115	120	115	110	115	120	115	110	115	120	115	115	
Type	Code	kVA				kVA				kVA				cosφ= 0,8	cosφ= 1
JB4 SA	86418105.X5	32,2	32,2	32,2	19,3	35,0	35,0	35,0	21,0	37,5	37,5	37,5	22,5	84,7	85,3
JB4 SB	86418125.X5	38,6	38,6	38,6	23,2	42,0	42,0	42,0	25,2	44,9	44,9	44,9	27,0	86,1	86,7
JB4 SC	86418150.X5	48,8	48,8	48,8	29,3	53,0	53,0	53,0	31,8	56,7	56,7	56,7	34,0	87,9	88,5
JB4 CA	86418185.X5	58,0	58,0	58,0	34,8	63,0	63,0	63,0	37,8	67,4	67,4	67,4	40,4	88,6	89,2
JB4 CB	86418215.X5	69,0	69,0	69,0	41,4	75,0	75,0	75,0	45,0	80,3	80,3	80,3	48,2	89,6	90,2
JB4 MA	86418255.X5	82,8	82,8	82,8	49,7	90,0	90,0	90,0	54,0	96,3	96,3	96,3	57,8	90,4	91,0
JB4 IA	86418310.X5	96,6	96,6	96,6	58,0	105,0	105,0	105,0	63,0	112,4	112,4	112,4	67,4	90,7	91,3
60 Hz 800 rpm		3 ph.		1 ph.	3 ph.		1 ph.	3 ph.		1 ph.	3 ph.				
Voltage Y		416	440	480	480	416	440	480	480	416	440	480	480	480	
Voltage YY		208	220	240	240	208	220	240	240	208	220	240	240	240	
Voltage		240	254	277	277	240	254	277	277	240	254	277	277	277	
Voltage		120	127	138	138	120	127	138	138	120	127	138	138	127	
Type	Code	kVA				kVA				kVA				cosφ= 0,8	cosφ= 1
JB4 SA	86418105.X5	35,9	37,5	38,6	23,2	39,1	40,7	42,0	25,2	41,8	43,6	44,9	27,0	85,4	86,0
JB4 SB	86418125.X5	43,1	45,0	46,4	27,8	46,9	48,9	50,0	30,2	50,2	52,3	53,9	32,4	86,8	87,4
JB4 SC	86418150.X5	54,4	56,8	58,5	35,1	59,1	61,7	64,0	38,2	63,3	66,0	68,1	40,8	88,5	89,1
JB4 CA	86418185.X5	64,7	67,5	69,6	41,7	70,3	73,3	75,0	45,4	75,2	78,5	80,9	48,5	89,2	89,8
JB4 CB	86418215.X5	77,0	80,3	82,8	49,7	83,7	87,3	90,0	54,0	89,6	93,4	96,3	57,8	90,2	90,8
JB4 MA	86418255.X5	92,4	96,4	99,4	59,6	100,4	104,8	108,0	64,8	107,5	112,1	115,6	69,3	91,0	91,6
JB4 IA	86418310.X5	107,8	112,4	115,9	69,6	117,2	122,2	125,0	75,6	125,4	130,8	134,8	80,9	91,3	91,9

OPERATING CONDITIONS

The ratings given in the above table are referred to the following conditions:
 Ambient temperature 40° C
 Altitude below 1000 m a.s.l.
 Power factor 0.8
 Symmetrical non deforming load
 Stand-by ratings are based on ambient temperature max 27° C for continuous supply of loads for any utility power failure; no overloads are allowed.

CORRECTION FACTORS

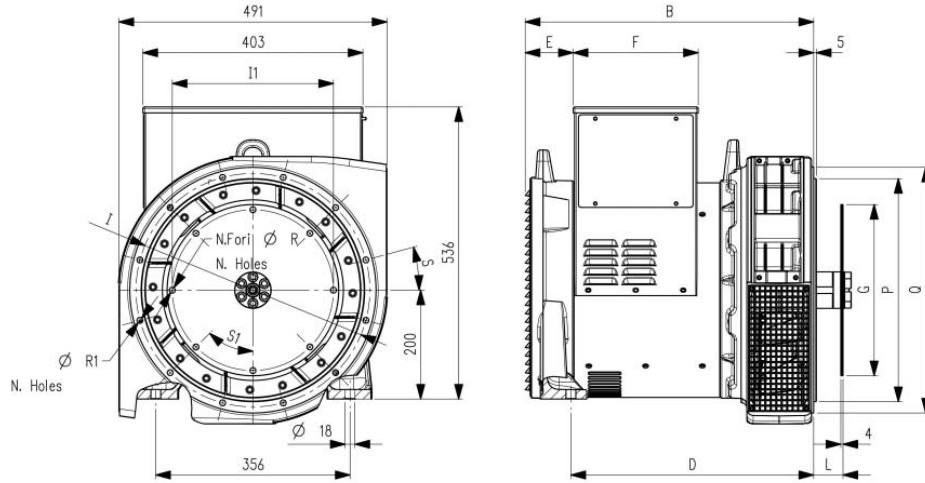
Amb. Temp.	25 °C	40 °C	45 °C	50 °C	55 °C
	1,045	1,0	0,96	0,92	0,88
Altitude	1000 M	1500 M	2000 M	2500 M	3000 M
	1,00	0,96	0,93	0,90	0,86
Power Factor	1,0	0,8	0,7	0,6	0,5
	1,00	1,00	0,93	0,88	0,84



JB4-02

OVERALL DIMENSIONS

SINGLE BEARING

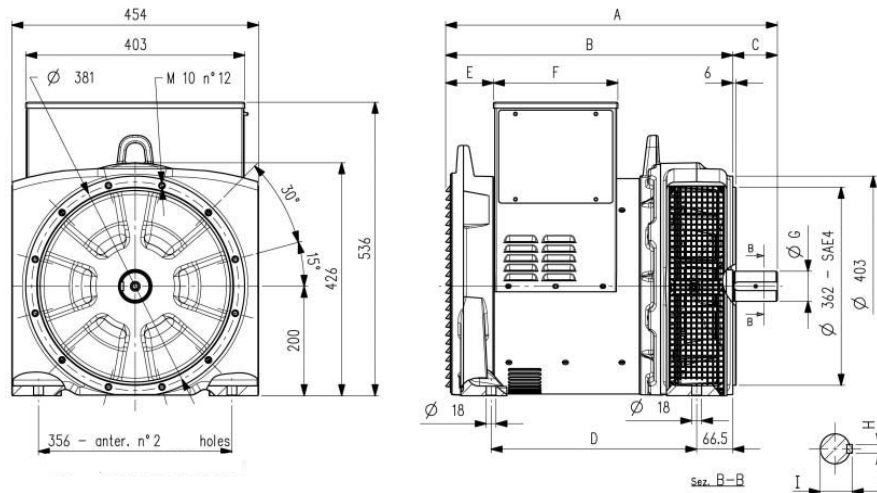


DRIVE PLATE	SAE HOUSING			L	G	I1	HOLES	R	S1
	4	3	2						
8,0				62,0	263,5	244,5	6	11	60°
10,0				53,8	314,3	295,3	8	11	45°
11,5				39,6	352,4	333,4	8	11	45°

P	362,0	409,6	447,7
Q	405,0	452,0	489,0
I	381,0	428,6	466,7
R1	11	11	11
S	15°	15°	15°
HOLES	12	12	12

TYPE	B	D	E	F	J [kgm ²]	WEIGHT [kg]
JB4 SA	529	445	88	229	0,303	192
JB4 SB	529	445	88	229	0,360	210
JB4 SC	529	445	88	229	0,407	226
JB4 CA	601	517	88	229	0,473	257
JB4 CB	601	517	88	229	0,530	280
JB4 MA	650	550	135	283	0,625	313
JB4 LA	705	605	135	283	0,730	351

TWO BEARING



TYPE	A	B	C	D	E	F	G	H	I	J [kgm ²]	WEIGHT [kg]
JB4 SA	611	529	82	378,5	88	229	55	16	59	0,303	192
JB4 SB	611	529	82	378,5	88	229	55	16	59	0,360	210
JB4 SC	611	529	82	378,5	88	229	55	16	59	0,407	226
JB4 CA	683	601	82	450,5	88	229	55	16	59	0,473	257
JB4 CB	683	601	82	450,5	88	229	55	16	59	0,530	280
JB4 MA	755	650	105	483,5	135	283	65	18	69	0,625	313
JB4 LA	810	705	105	538,5	135	283	65	18	69	0,730	351