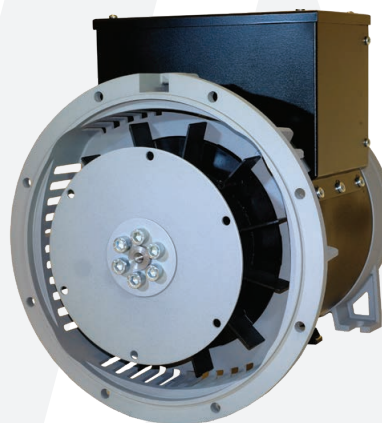


# BRUSHLESS ALTERNATORS WITH AVR - 4 Poles

**ZB132**  
Three-phase

**CB132**  
Single-phase



Technical characteristics		ZB132	CB132
		Three-phase	Single-phase
Number of poles	4		
Rated power factor	0,8	1	
Voltage accuracy	± 1%		
T.H.D.	< 4% phase to phase	< 5%	
Nominal temperature	-15°C ÷ 40°C		
Excitation system	Self-excited		
Execution	Brushless		
Regulation type	Automatic Voltage Regulator		
AVR model	KVR0630		
Overload	110% of rated power for 1 hour in a 6-hour cycle		
Short circuit current	> 300% I <sub>n</sub>		
Insulation class	H		
Protection degree	IP20 (IP23 on request)		
Nominal speed	1500 rpm at 50Hz - 1800 rpm at 60Hz		
Overspeed	2250 rpm		
Air flow requirement	5,5 m <sup>3</sup> /min at 1500 rpm - 6,6 m <sup>3</sup> /min at 1800 rpm		
Standards	IEC 34-1; EN60034-1; ISO 8528-3		
Electromagnetic compatibility	EN61000-6-2; EN61000-6-4		
NDE bearing type	6207 2RSC3		
Stator windings	Single (double) layer with auxiliary windings		
Rotor	With damping cage		
Number of leads	<b>6 (12 on request)</b>		<b>4</b>

Modello Model	Potenza Power					Potenza Power								
	50Hz - 1500rpm					60Hz - 1800rpm								
	3 ph p.f.=0,8 [kVA]		η %	1 ph Y p.f. = 1 [kVA]		1 ph Δ p.f. = 1 [kVA]		3 ph p.f. = 0,8 [kVA]		η % [480V]	1 ph Y p.f. = 1 [kVA]		1 ph Δ p.f. = 1 [kVA]	
Series star Y	<b>380</b>	<b>400</b>	<b>415</b>	<b>220 ÷ 240</b>		<b>220 ÷ 240</b>		<b>380</b>	<b>416</b>	<b>440</b>	<b>460</b>	<b>480</b>	<b>220 ÷ 240</b>	
Parallel star YY*	190	200	208	<b>110 ÷ 120</b>		<b>110 ÷ 120</b>		190	208	220	230	240	<b>110 ÷ 138</b>	
Series delta Δ	220	230	240	<b>220 ÷ 240</b>		<b>220 ÷ 240</b>		220	240	254	266	277	<b>220 ÷ 277</b>	
Parallel delta ΔΔ*	110	115	120	<b>110 ÷ 120</b>		<b>110 ÷ 120</b>		110	120	127			<b>110 ÷ 127</b>	
ZB132 XSA	<b>8</b>			80	40% of 3 ph Power	60% of 3 ph Power	<b>8,5</b>	<b>9</b>	<b>9,5</b>	<b>9,5</b>	<b>10</b>	81	40% of 3 ph Power	60% of 3 ph Power
ZB132 XSB	<b>10</b>			81			<b>11</b>	<b>11,5</b>	<b>12</b>	<b>12,5</b>	<b>13</b>	82		
ZB132 YSA	<b>12</b>			83			<b>13</b>	<b>13,5</b>	<b>14</b>	<b>14,5</b>	<b>15</b>	84		
ZB132 SB	<b>14</b>			84			<b>15</b>	<b>16</b>	<b>16,5</b>	<b>17</b>	<b>17,5</b>	84,5		
ZB132 MA	<b>20</b>			86			<b>21,5</b>	<b>23</b>	<b>24</b>	<b>24</b>	<b>25</b>	86,5		

Power SI cl.H (ΔT=125°C) - below 1000m AMSL - A.T. < 40°C  
\* Available on request

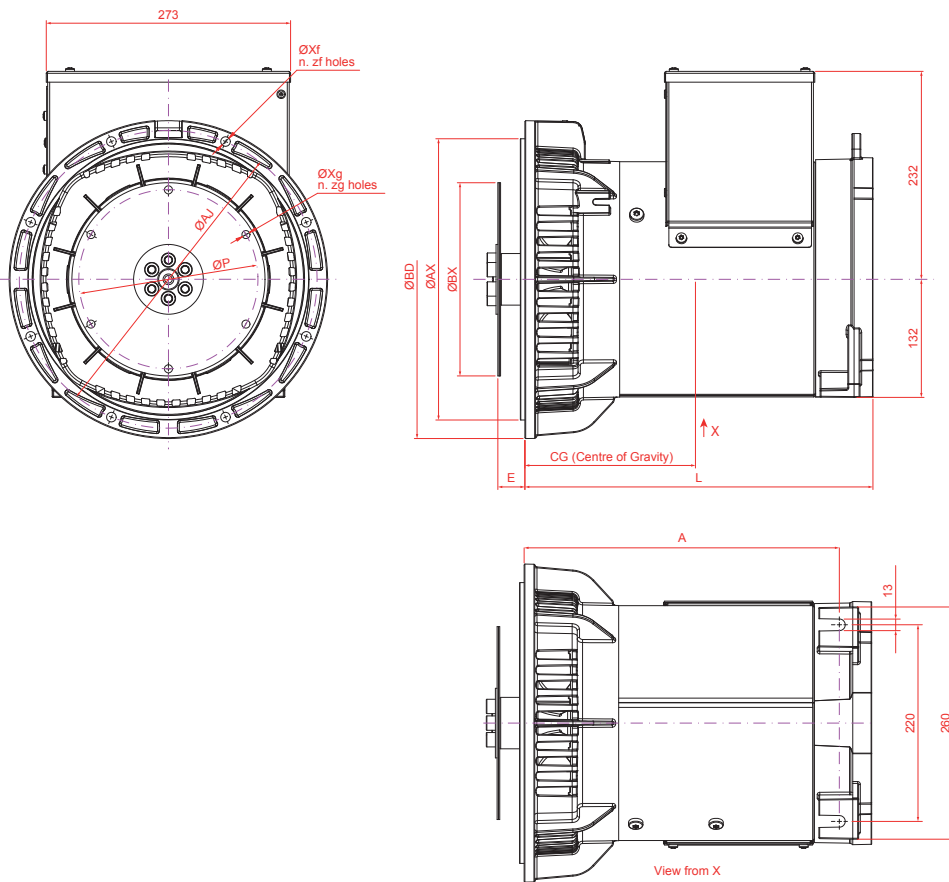
Modello Model	Potenza Power			Potenza Power		
	50Hz - 1500rpm			60Hz - 1800rpm		
	p.f.=1 [kVA]	η %	p.f.=0,8 [kVA]	p.f.=1 [kVA]	η %	p.f.=0,8 [kVA]
Series	<b>220 - 230 - 240</b>		<b>220 - 230 - 240</b>	<b>220 - 230 - 240</b>		<b>220 - 230 - 240</b>
Parallel	110 - 115 - 120		110 - 115 - 120	110 - 115 - 120		110 - 115 - 120
CB132 XSA	<b>5</b>	79	<b>4</b>	<b>6,5</b>	80	<b>5,2</b>
CB132 XSB	<b>7</b>	80,5	<b>5,6</b>	<b>9</b>	81,5	<b>7,2</b>
CB132 YSA	<b>9</b>	82	<b>7,2</b>	<b>11,5</b>	83	<b>9,2</b>
CB132 SB	<b>11</b>	83	<b>8,8</b>	<b>14</b>	84	<b>11,2</b>
CB132 MA	<b>14</b>	84	<b>11,2</b>	<b>17,8</b>	85	<b>14,2</b>

Power SI cl.H (ΔT=125°C) - below 1000m AMSL - A.T. < 40°C

Output power derating coefficients					
Altitude [m AMSL]	Ambient Temperature				
	25°C	40°C	45°C	50°C	55°C
<1000	<b>1,07</b>	<b>1</b>	<b>0,96</b>	<b>0,92</b>	<b>0,88</b>
1000 ÷ 1500	<b>1</b>	<b>0,96</b>	<b>0,92</b>	<b>0,88</b>	<b>0,85</b>
1500 ÷ 2000	<b>0,96</b>	<b>0,91</b>	<b>0,87</b>	<b>0,84</b>	<b>0,81</b>
2000 ÷ 3000	<b>0,90</b>	<b>0,85</b>	<b>0,81</b>	<b>0,78</b>	<b>0,75</b>

Multiply the Output Power (kVA) stated in the catalogue by the coefficient drawn from the above table.

## Dimensioni di ingombro Overall Dimensions



Type	50Hz	60Hz	A	L	Weight SAE
	[kVA]	[kVA]			[kg]
CB132 XSA	5	6,5	302	339	54
CB132 XSB	7	9	302	339	59
CB132 YSA	9	11,5	327	364	68
CB132 SB	11	14	352	389	76
CB132 MA	14	17,8	412	449	97

Type	50Hz	60Hz	A	L	Weight SAE
	[kVA]	[kVA]			[kg]
ZB132 XSA	8	10	302	339	55
ZB132 XSB	10	12,5	302	339	60
ZB132 YSA	12	15	327	364	70
ZB132 SB	14	17,5	352	389	78
ZB132 MA	20	25	412	449	99

	SAE 5-6½	SAE 4-7½
	G	
	[mm]	
CB132 XSA	164,1	161,5
CB132 XSB	166,5	164,1
CB132 YSA	178,8	176,5
CB132 SB	190,7	188,6
CB132 MA	219,7	217,8

	SAE 5-6½	SAE 4-7½
	G	
	[mm]	
ZB132 XSA	164,1	161,5
ZB132 XSB	166,5	164,1
ZB132 YSA	178,8	176,5
ZB132 SB	190,7	188,6
ZB132 MA	219,7	217,8

SAE	Flange				
	AX	BD	AJ	Xf	zf
	[mm]				
5	314,32	356	333,37	11	8
4	361,95	404	381	11	12

SAE	Joint				
	E	BX	P	Xg	zg
	[mm]				
6,5	30,2	215,9	200,02	9	6
7,5	30,2	241,3	222,25	9	8

Technical data not binding: NSM reserves the right to modify the contents without prior notice.