

# SYNCHRONOUS ALTERNATORS - G PLUS LINE AG10 LINE

Guaranteed **high performance** for your application



Industrial Motors  
Commercial & Appliance Motors  
Automation  
Digital & Systems  
**Energy**  
Transmission & Distribution  
Coatings

Driving efficiency and sustainability





Founded in 1961, WEG is one of the largest manufacturers of alternators and electric motors in the world.

Committed to growth on a global scale, WEG continually invests in state of the art manufacturing facilities, processes and the development of new and improved industrial electrical solutions.

## Synchronous Alternators

WEG's extensive experience in the manufacturing of alternators in addition to modern design, production capacity and testing facilities, has resulted in a range of brushless synchronous alternators.

Available up to 4,200 kVA, the G Plus and AG10 lines are suitable for all emergency, prime power or continuous operation in the areas:

- Industrial
- Commercial
- Marine
- Telecommunication
- Mining
- Residential
- Irrigation
- Hospitals
- Rural areas
- Airports and others

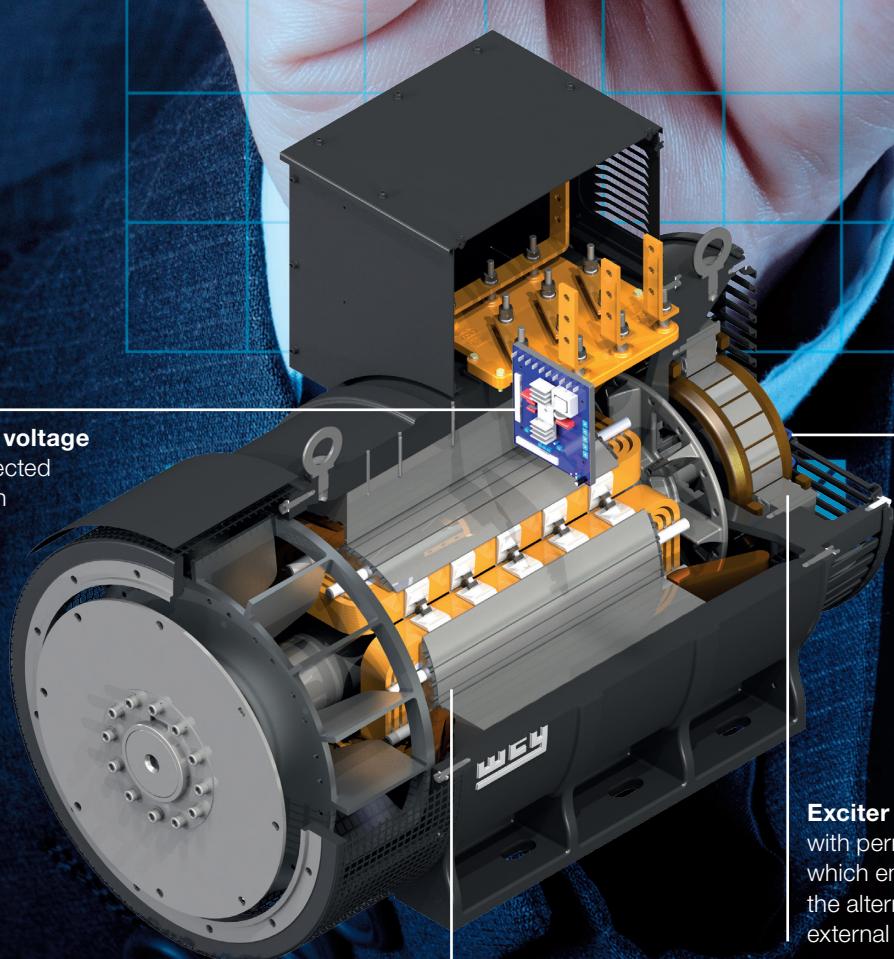


## Technical features

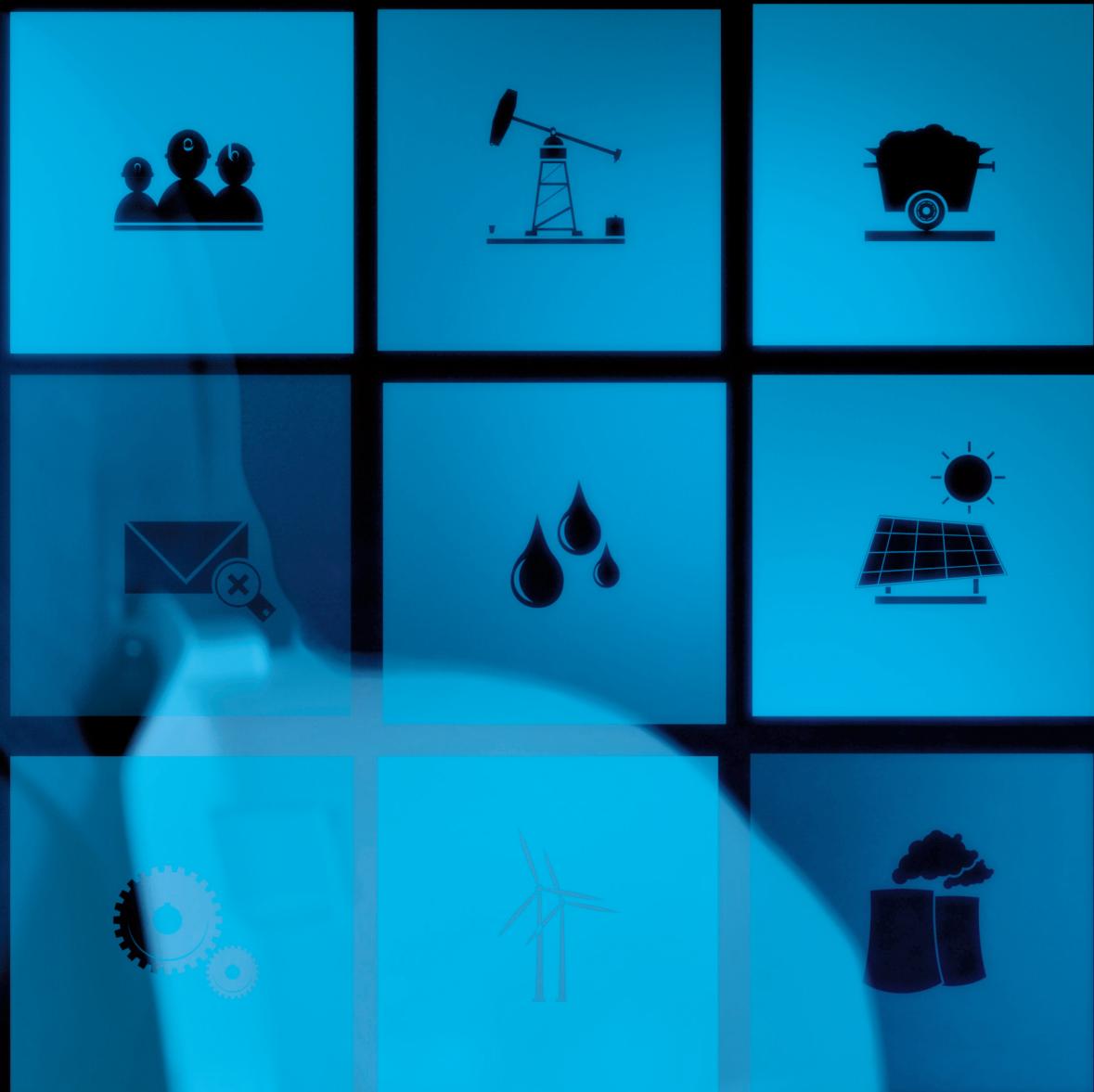
- Output power: up to 2,455 kVA (others upon request)
- Frames: 160 to 400 (IEC)
- Low voltage: 110 to 690 V
- High voltage: 2,300 to 13,800 V (upon request)
- Frequency: 50 to 60 Hz
- Degree of protection: IP23 (standard), IP44 to IP55W (upon request)
- Insulation class: H (180 °C) low voltage and F (155 °C) high voltage
- Winding pitch: 2/3 (160 to 315)
- Number of poles: 4 poles (standard), 6 and 8 poles (upon request)
- Leads: 12 or 6 leads

### Notes:

- 1) The three-phase alternators with 12 leads can operate in 190/208/220/240/380/440/480 V in 60 Hz and 120/190/208/380/400 V in 50 Hz.
- 2) The three-phase alternators can be reconnected to supply single-phase voltages from 110 to 480 V.



**Auxiliary winding (I-PMG)**  
for power supply of the regulator,  
without the need of external PMG.  
It keeps the short-circuit current.



## Operating conditions

### Altitude

The rated power refers to installations up to 1,000 meters above sea level. For applications over this altitude, the following power correction factor must be applied:

Altitude (meters above sea level)	1,000	1,500	2,000	2,500	3,000	3,500	4,000
K factor	1	0.97	0.94	0.90	0.86	0.82	0.80

### Ambient temperature

The rated powers refer to installations with ambient temperature of 40 °C. For applications with ambient temperature different from 40 °C, the following power correction factor must be applied:

Ambient temperature (°C)	40	45	50	55
K factor	1	0.95	0.92	0.88

### Abrasive dust

Additional protections are recommended when the alternator is used in environments where abrasive dust can penetrate through the ventilation.

Although the alternator coils are protected against abrasive environments, severe conditions may require additional protections, such as: baffle, closed cabinet, filters and other proper protections. Contact WEG for recommendations.

### Outdoor applications

All alternators for outdoor applications must be covered with a metal shelter with proper openings for ventilation. This protection must be projected to prevent direct contact of the alternator with rain, snow or dust. Space heaters are recommended, depending on the location and application. Contact WEG for recommendations about required protections.

### Sea/marine environments

WEG also operate in marine applications (shore, islands, small vessels, etc.) and naval (medium and large boats, ships, yachts, platforms, military vessels, etc.). For those applications, WEG has special manufacturing process technology.

### Insulation class

WEG alternators have default H (180 °C) insulation class. The insulation class defines the highest temperature that the equipment can stand continuously without affecting its useful life.

The temperature limits are defined as per standard IEC 60085.

## Operation duty

### **Continuous Power (COP) (ambient temperature 40 °C / ΔT = 125 °C)**

The alternator operates at rated power, in parallel with or independent of the grid, for an unlimited number of hours per year. The possibility of overload in this operation duty is not admissible.

### **Non Limited-Time Prime Power (PRP) (ambient temperature 40 °C / ΔT = 125 °C)**

The alternator operates with variable loads for an unlimited number of hours per year.

The permissible average power output shall not exceed 70% of the Prime Power.

Can operate with overload up to 10% for 1 hour every 12h, limited to 25h maximum per year.

### **Emergency Standby Power (ESP) (ambient Temperature 40 °C / ΔT = 150 °C)**

The alternator operates as energy backup with variable loads in emergency situations in places where the energy is supplied by the utility company or another main power source.

The permissible average power output shall not exceed 70% of the Emergency Power and shall respect the maximum number of hours per year as defined by ISO 8528, IEC 60034 and NEMA MG1.

### **Emergency Standby Power (ESP) (ambient temperature 27 °C / ΔT = 163 °C)**

The condition is similar to the previous one.

However, the maximum ambient temperature accepted is 27 °C.

## Manufacturing processes

### **Manufacturing resources**

WEG has state-of-the-art equipment which is used in all manufacturing processes, from casting and stamping parts to the enameling of wires and packaging, resulting in efficient products and proven quality.

### **Machining**

WEG has a shaft machining center and a cast part machining center where the highest manufacturing process standards are considered, which ensures the quality and precision of the components manufactured.

### **Impregnation**

Developed with the latest technology, the impregnation system by continuous flow and VPI (Vacuum Pressure Impregnation) are used by WEG for low voltage winding, ensuring perfect insulation and protection.

Besides the impregnation, the static windings receive a protecting coating as an additional protection against infiltration of humidity, dust, etc.

### **Dynamic balancing**

The rotating part (rotor) is dynamically balanced with greater precision than that required by the standard IEC 60034-part 14 or ISO 2372, ensuring minimum levels of residual unbalance.

### **Construction**

WEG alternators are made according to the requirements of the standards NBR 5117, VDE 0530-part 1, IEC 60034-part 1. Using the best quality standards during manufacturing, the result is safe operation and great durability.

Mounting types normally supplied:

- B15T: single bearing with coupling disc and flange
- B35T: double bearing with flange
- B3T: double bearing without flange and coupling disc

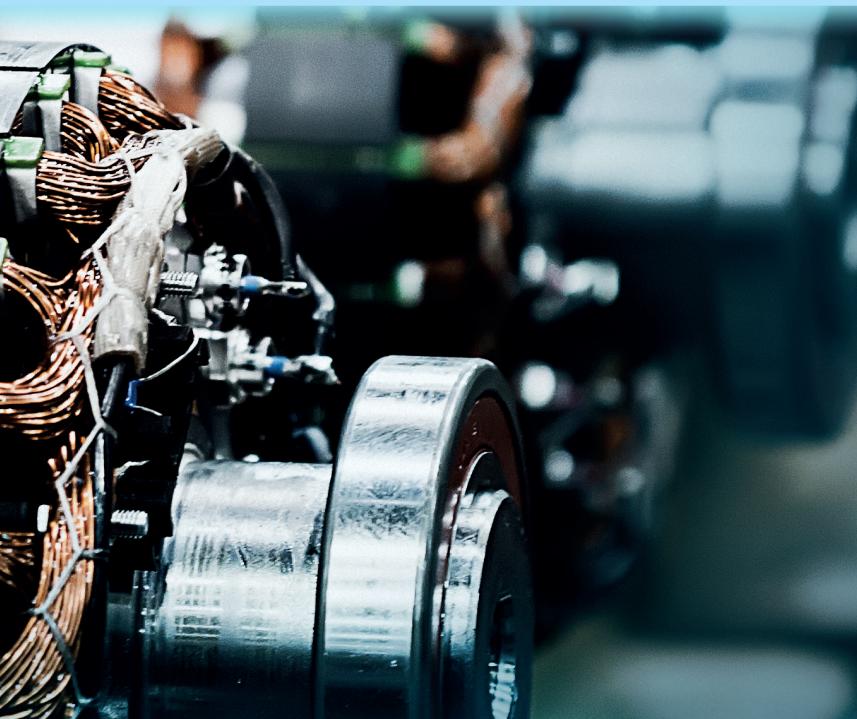
# Automatic voltage regulators

Developed to reach maximum performance, the voltage regulators are encapsulated and can tolerate high vibration levels. Regulators are installed in the main terminal box and the performance is guaranteed in different applications, being protected against dust, salt and sand.

## Applications and technical features

Excitation with auxiliary winding - I-PMG				External PMG		
Frame	160 - 200	250 - 315	355 - 400	200 - 355 (G Plus line)	200 - 315 (AG10 line)	355 - 400 (AG10 line)
Technical features <sup>1)</sup>						
Power supply	Single-phase	Single-phase	Single-phase	Three-phase	Single-phase	Single-phase
Sensing voltage connection	Single-phase	Single-phase	Single-phase	Three-phase	Single-phase	Single-phase
Operating rated current (A)	7	5	7	5	5	7
Peak current (max. 10s) (A)	10	7	10	10	7	10
Analog input +/- 3 V or +/- 5 V or +/- 10 Vdc	Standard	-	-	-	-	-
Analog input +/- 10 Vdc	-	Standard	Standard	Standard	Standard	Standard
Digital input	-	Optional	Optional	-	-	-
Droop adjustment for parallel operation	-	Standard	Standard	Standard	Standard	Standard
Static control	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Adjustable dynamic response	8 up to 500ms	8 up to 500ms	8 up to 500ms			
Underfrequency protection (U/F)	Standard	Standard	Standard	Standard	Standard	Standard
Internal voltage adjustment	+/-15%	+/-15%	+/-15%	+/-15%	+/-15%	+/-15%
External voltage adjustment	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%	+/-10%
Parallelism TC signal	-	1 A or 5 A	1 A or 5 A	1 A or 5 A	1 A or 5 A	1 A or 5 A
EMI suppression	Standard	Standard	Standard	Standard	Standard	Standard

Note: 1) Technical features of the standard regulators. Optional items can be ordered. For other technical features, please contact WEG.





## Operating characteristics

### Standard protection rate

The alternators are mechanically protected against finger touch, solid foreign bodies of diameter over 12 mm and against spraying water which is the protection rate IP23 as per standard IEC 60034-part 5.

### Voltage regulator

The automatic voltage regulator (AVR) has a function called U/F which, when properly enabled, protects the alternator against operations below the rated speed, reducing excitation current.

A fuse in series with auxiliary winding installed into terminal box or in the voltage regulator protects the alternator against several abnormal situations during operation, such as:

- Reference loss
- Connection of the auxiliary coil in short circuit
- Output connection of the regulator in short circuit
- Operation in low speed
- Damages to the voltage regulator

### Excitation with auxiliary coil (I-PMG)

A special feature of WEG alternators is the excitation system with auxiliary coil that ensures fast response, optimum stability, sustained short-circuit current of 300% of the rated current for 10 seconds, fast voltage recovery process and excellent performance at the start of induction motors.

The auxiliary coil is responsible for supplying power to the voltage regulator, regardless of voltage in the alternator terminals or load variation during operation.

The auxiliary coil is standard in all power range of the G Plus and AG10 lines (low voltage, 4 poles).



## Operating characteristics

### Main exciter stator

The main exciter stator features permanent magnets, which ensures the maintenance of the alternator residual voltage, without requiring external supply for build-up after long stops.

### Excitation with external PMG (except frame 160)

As an option, WEG alternators line allows the use of an auxiliary exciter with permanent magnets (external PMG).

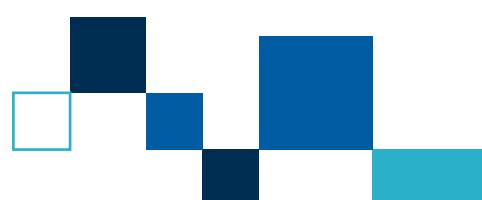
### Accessories/specialties

Depending on the need or specification, accessories that allow greater flexibility in all application fields are optionally available, such as:

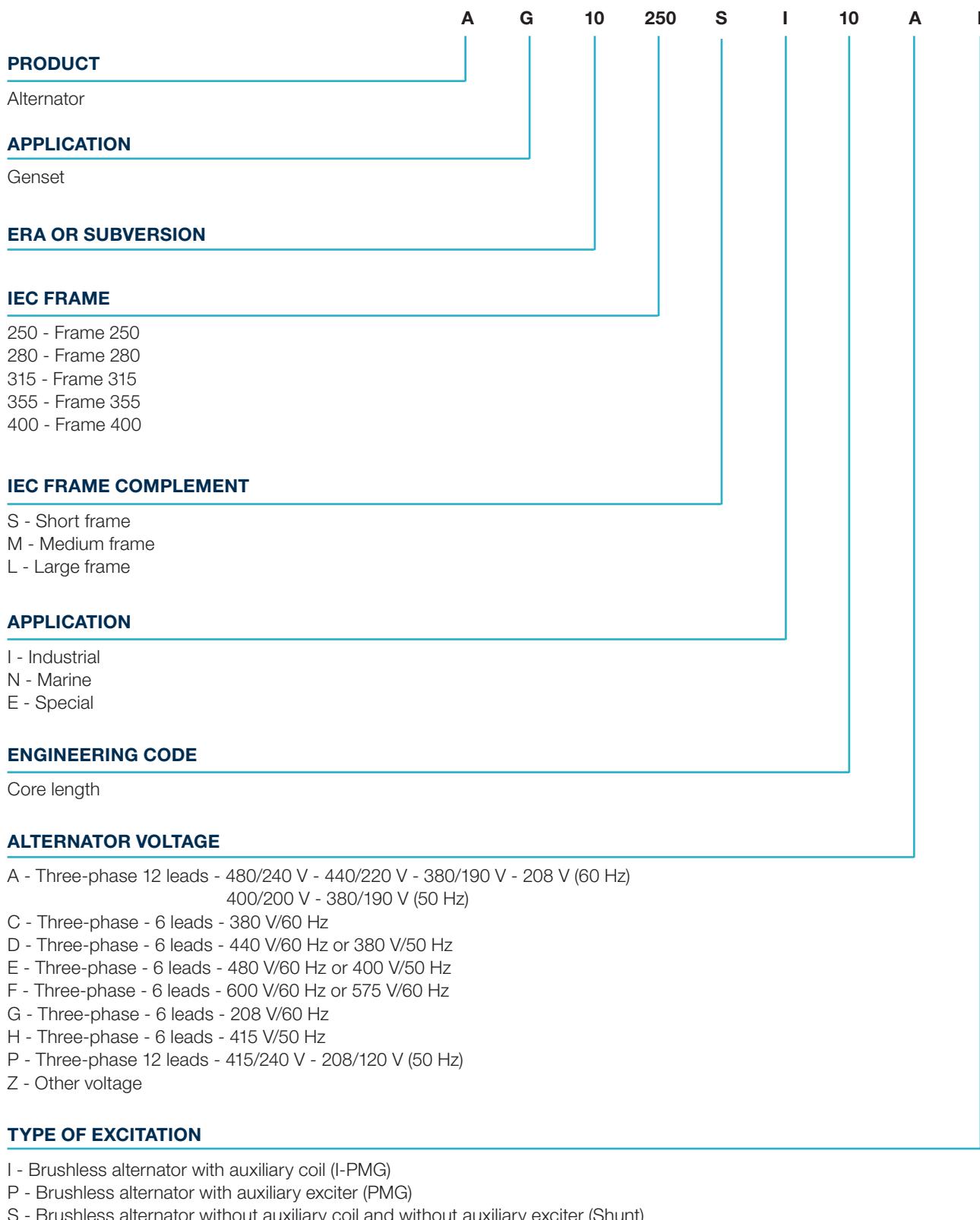
- Temperature detectors in the windings and bearings
- Space heaters (anti-condensation)
- Current transformer
- Double bearing B35T or B3T
- Auxiliary exciter (external PMG)
- Protection IP23W, IP44, IP44W, IP54, IP54W, IP55 and IP55W
- Special coating scheme (custom color)

# Nomenclature G Plus line

G	T	A	16	1	A	I	SR
<b>ALTERNATOR LINE</b>							
G - Synchronous Machine – G Plus Line							
<b>EXCITATION CHARACTERISTIC</b>							
T - Brushless alternator with auxiliary coil (I-PMG) P - Brushless alternator with auxiliary exciter (PMG) S - Brushless alternator without auxiliary coil and without auxiliary exciter (Shunt)							
<b>COOLING TYPE</b>							
A - Open self-ventilation (standard) F - Closed with air-to-air heat exchanger (upon request) W - Closed with air-to-water heat exchanger (upon request) K - Totally enclosed with fins (upon request)							
<b>IEC FRAME</b>							
16 - Frame 160 20 - Frame 200 ...							
<b>FRAME LENGTH</b>							
1 - Short frame 2 - Medium frame 3 - Large frame							
<b>VOLTAGE</b>							
A - Three-phase - 12 leads - 480/240 V - 440/220 V - 380/190 V - 208 V (60 Hz) 400/200 V - 380/190 V (50 Hz) C - Three-phase - 6 leads - 380 V/60 Hz D - Three-phase - 6 leads - 440 V/60 Hz or 380 V/50 Hz E - Three-phase - 6 leads - 480 V/60 Hz or 400 V/50 Hz F - Three-phase - 6 leads - 600 V/60 Hz or 575 V/60 Hz G - Three-phase - 6 leads - 208 V/60 Hz H - Three-phase - 6 leads - 415 V/50 Hz P - Three-phase - 12 leads - 415/240/208/120 V (50 Hz) Z - Other voltage							
<b>APPLICATION</b>							
I - Industrial N - Marine E - Special							
<b>COMPLEMENTARY CODE</b>							
Core length							



# Nomenclature AG10 line



## 12 leads / 4 poles

480 / 240 V (60 Hz) | 440 / 220 V (60 Hz) | 0.8 P.F.

Line	Model		480 V - Y / 240 V - YY					440 V - Y / 220 V - YY				
		$\Delta T$	80 °C	105 °C	125 °C	150 °C	163 °C	80 °C	105 °C	125 °C	150 °C	163 °C
G Plus	161AISR	kVA	12.3	14.1	15.4	15.9	15.9	11.0	12.6	13.7	14.7	15.3
		kW	9.8	11.3	12.3	12.7	12.7	8.8	10.1	11.0	11.8	12.2
	161AIHS	kVA	14.6	16.8	18.3	19.6	20.3	14.0	16.0	17.5	18.7	20.0
		kW	11.7	13.4	14.6	15.7	16.2	11.2	12.8	14.0	15.0	16.0
	161AIHH	kVA	16.9	19.4	21.1	22.6	23.5	15.5	17.7	19.3	20.7	21.5
		kW	13.5	15.5	16.9	18.1	18.8	12.4	14.2	15.4	16.6	17.2
	161AIHI	kVA	20.8	23.8	26.0	28.5	29.7	20.2	23.2	25.3	27.1	28.1
		kW	16.6	19.0	20.8	22.8	23.8	16.2	18.6	20.2	21.7	22.5
	161AIHJ	kVA	21.8	25.0	27.3	30.0	31.1	20.1	23.0	27.0	28.0	29.0
		kW	17.4	20.0	21.8	24.0	24.9	16.1	18.4	21.6	22.4	23.2
	162AIVD	kVA	25.9	29.7	42.0	44.0	46.0	29.4	33.7	42.0	44.0	46.0
		kW	20.7	23.8	33.6	35.2	36.8	23.5	27.0	33.6	35.2	36.8
	201AIHS	kVA	43.4	49.7	54.3	59.5	62.0	40.8	46.7	51.0	55.8	58.2
		kW	34.7	39.8	43.4	47.6	49.6	32.6	37.4	40.8	44.6	46.6
	201AIHV	kVA	56.4	64.6	70.5	77.2	81.0	54.5	62.4	68.1	72.8	75.7
		kW	45.1	51.7	56.4	61.8	64.8	43.6	49.9	54.5	58.2	60.6
	201AIHB	kVA	68.5	78.5	85.6	92.2	92.2	60.4	69.2	75.5	80.7	85.0
		kW	54.8	62.8	68.5	73.8	73.8	48.3	55.4	60.4	64.6	68.0
	201AIHE	kVA	66.1	75.7	88.0	95.0	97.0	66.0	75.6	88.0	95.0	97.0
		kW	52.9	60.6	70.4	76.0	77.6	52.8	60.5	70.4	76.0	77.6
	202AIVS	kVA	88.0	101.0	110.0	116.0	120.0	82.0	94.0	103.0	112.0	115.0
		kW	70.4	80.8	88.0	92.8	96.0	65.6	75.2	82.4	89.6	92.0
	202AIVJ	kVA	107.2	122.8	141.0	144.0	150.0	105.4	120.7	141.0	144.0	150.0
		kW	85.8	98.2	112.8	115.2	120.0	84.3	96.6	112.8	115.2	120.0
	251AIHD	kVA	140	161	175	188	189	137	157	171	183	190
		kW	112	129	140	150	151	110	126	137	146	152
	251AIHE	kVA	180	206	225	243	252	171	196	214	230	240
		kW	144	165	180	194	202	137	157	171	184	192
AG10	250SI10AI	kVA	208	238	260	290	295	186	217	233	250	260
		kW	166	191	208	232	236	149	174	186	200	208
	250SI20AI	kVA	250	288	312	345	360	234	268	292	315	330
		kW	200	230	250	276	288	187	214	234	252	264
	250MI00AI	kVA	292	335	365	400	417	256	293	325	347	380
		kW	234	268	292	320	334	205	234	260	278	304
	250MI10AI	kVA	324	371	405	460	470	302	346	377	412	450
		kW	259	297	324	368	376	241	276	302	330	360
	250MI20AI	kVA	378	440	472	517	550	352	403	440	477	505
		kW	302	352	378	414	440	282	323	352	381	404
	280MI20AI	kVA	412	472	515	550	580	380	440	475	515	533
		kW	330	378	412	440	464	304	352	380	412	426
	280MI30AI	kVA	456	510	570	600	650	412	485	515	560	588
		kW	365	408	456	480	520	330	388	412	448	470
	280MI40AI	kVA	484	565	605	650	691	456	520	570	600	650
		kW	387	452	484	520	553	365	416	456	480	520
	315MI10AI	kVA	520	596	650	700	750	480	563	600	645	670
		kW	416	477	520	560	600	384	450	480	516	536
	315MI15AI	kVA	570	650	710	780	825	530	605	660	725	770
		kW	456	520	568	624	660	424	484	528	580	616
	315MI20AI	kVA	642	736	803	875	906	600	700	750	813	844
		kW	514	589	642	700	725	480	560	600	650	675
	315MI30AI	kVA	740	850	925	1010	1056	672	770	840	920	958
		kW	592	680	740	808	845	538	616	672	736	766
	315MI40AI	kVA	832	953	1040	1100	1160	768	880	960	1020	1060
		kW	666	763	832	880	928	614	704	768	816	848
	355MI70AI	kVA	1120	1283	1400	1450	1520	1024	1173	1280	1400	1480
		kW	896	1026	1120	1160	1216	819	938	1024	1120	1184
	355MI80AI	kVA	1280	1466	1600	1660	1720	1168	1338	1460	1600	1670
		kW	1024	1173	1280	1328	1376	934	1070	1168	1280	1336
	355MI90AI	kVA	1440	1650	1800	1950	2000	1336	1531	1670	1790	1850
		kW	1152	1320	1440	1560	1600	1069	1225	1336	1432	1480

Notes:  $\Delta T = 163$  °C, ambient temperature = 27 °C. For the other  $\Delta T$ , ambient temperature = 40 °C.

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other voltages, please contact WEG.

12 leads / 4 poles

**416 / 208 V (60 Hz) | 380 / 190 V (60 Hz) | 0.8 P.F.**

Line	Model	$\Delta T$	416 V - Y / 208 V - YY					380 V - Y / 190 V - YY				
			80 °C	105 °C	125 °C	150 °C	163 °C	80 °C	105 °C	125 °C	150 °C	163 °C
G Plus	161AISR	kVA	10.6	12.2	13.2	14.2	14.8	10.1	11.6	12.6	13.5	14.0
		kW	8.5	9.8	10.6	11.4	11.8	8.1	9.3	10.1	10.8	11.2
	161AIHS	kVA	13.2	15.0	16.4	17.6	18.6	12.0	13.7	14.9	16.0	16.6
		kW	10.5	12.0	13.1	14.1	14.9	9.6	11.0	11.9	12.8	13.3
	161AIHH	kVA	14.5	16.6	18.1	19.4	20.2	13.2	15.1	16.5	17.6	18.3
		kW	11.6	13.3	14.5	15.5	16.1	10.6	12.1	13.2	14.1	14.6
	161AIHI	kVA	18.4	21.1	23.0	24.6	25.5	15.9	18.2	19.9	21.3	22.1
		kW	14.7	16.8	18.4	19.7	20.4	12.7	14.6	15.9	17.0	17.7
	161AIHJ	kVA	19.1	21.9	25.3	26.8	27.8	17.7	20.3	23.0	25.0	26.0
		kW	15.3	17.5	20.3	21.4	22.2	14.2	16.2	18.4	20.0	20.8
	162AIVD	kVA	27.7	31.8	41.2	42.4	44.4	25.4	29.1	40.0	40.0	42.0
		kW	22.2	25.4	33.0	33.9	35.5	20.3	23.3	32.0	32.0	33.6
	201AIHS	kVA	38.5	44.0	48.1	52.6	54.9	35.2	40.3	44.0	48.2	50.2
		kW	30.8	35.2	38.5	42.1	43.9	28.2	32.2	35.2	38.6	40.2
	201AIHV	kVA	51.5	59.0	64.3	68.8	73.8	47.3	54.2	59.1	63.2	71.0
		kW	41.2	47.2	51.5	55.0	59.0	37.8	43.4	47.3	50.6	56.8
	201AIHB	kVA	58.9	67.5	73.7	78.7	82.5	56.8	65.1	71.0	75.9	78.9
		kW	47.1	54.0	58.9	63.0	66.0	45.4	52.1	56.8	60.7	63.1
	201AIHE	kVA	64.4	73.8	84.7	90.0	92.6	62.1	71.2	80.0	83.0	86.4
		kW	51.5	59.0	67.8	72.0	74.1	49.7	57.0	64.0	66.4	69.1
	202AIVS	kVA	77.8	89.4	97.6	105.7	108.7	72.0	83.0	90.0	97.0	100.0
		kW	62.3	71.5	78.1	84.6	87.0	57.6	66.4	72.0	77.6	80.0
	202AIVJ	kVA	100.6	115.2	133.5	137.8	144.2	93.8	107.5	123.0	129.0	136.0
		kW	80.5	92.2	106.8	110.2	115.4	75.0	86.0	98.4	103.2	108.8
	251AIHD	kVA	125	144	159	169	176	110	127	142	149	156
		kW	100	115	127	135	141	88	102	114	119	125
	251AIHE	kVA	164	188	205	220	229	154	176	192	205	214
		kW	131	150	164	176	183	123	141	154	164	171
AG10	250SI10AI	kVA	180	206	225	246	255	168	190	210	230	240
		kW	144	165	180	197	204	134	152	168	184	192
	250SI20AI	kVA	223	255	278	298	312	205	235	260	275	290
		kW	178	204	223	239	250	164	188	208	220	232
	250MI00AI	kVA	257	294	321	344	376	244	288	305	330	360
		kW	205	235	257	275	300	195	230	244	264	288
	250MI10AI	kVA	283	324	354	394	416	260	298	325	364	380
		kW	226	259	283	315	332	208	238	260	291	304
	250MI20AI	kVA	329	377	412	461	488	302	350	378	435	460
		kW	264	302	329	369	391	242	280	302	348	368
	280MI20AI	kVA	362	414	452	486	506	336	395	420	450	468
		kW	289	331	362	389	405	269	316	336	360	374
	280MI30AI	kVA	396	453	494	535	565	368	425	460	500	525
		kW	316	363	396	428	452	294	340	368	400	420
	280MI40AI	kVA	431	493	538	582	614	400	450	500	550	571
		kW	345	395	431	465	492	320	360	400	440	457
	315MI10AI	kVA	454	520	568	611	637	420	481	525	565	585
		kW	363	416	454	489	510	336	385	420	452	468
	315MI15AI	kVA	500	573	625	686	728	465	535	580	655	675
		kW	400	458	500	549	582	372	428	464	524	540
	315MI20AI	kVA	582	667	728	794	817	553	633	691	757	773
		kW	466	533	582	635	653	442	507	553	606	618
	315MI30AI	kVA	649	743	811	876	926	608	710	760	810	868
		kW	519	595	649	700	741	486	568	608	648	694
	315MI40AI	kVA	720	825	900	948	990	660	756	825	863	900
		kW	576	660	720	758	792	528	605	660	690	720
	355MI70AI	kVA	982	1125	1228	1343	1394	920	1054	1150	1280	1310
		kW	786	900	982	1074	1115	736	843	920	1024	1048
	355MI80AI	kVA	1115	1278	1394	1528	1575	1040	1191	1300	1450	1480
		kW	892	1022	1115	1222	1260	832	953	1040	1160	1184
	355MI90AI	kVA	1237	1418	1547	1683	1753	1128	1292	1410	1550	1630
		kW	990	1134	1238	1346	1402	902	1034	1128	1240	1304

Notes:  $\Delta T = 163 \text{ }^{\circ}\text{C}$ , ambient temperature =  $27 \text{ }^{\circ}\text{C}$ . For the other  $\Delta T$ , ambient temperature =  $40 \text{ }^{\circ}\text{C}$ .

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other voltages, please contact WEG.

# 12 leads / 4 poles

**400 / 200 V (50 Hz) | 380 / 190 V (50 Hz) | 0.8 P.F.**

Line	Model	$\Delta T$	400 V - Y / 200 V - YY					380 V - Y / 190 V - YY				
			80 °C	105 °C	125 °C	150 °C	163 °C	80 °C	105 °C	125 °C	150 °C	163 °C
G Plus	161AISR	kVA	9.0	10.0	<b>11.0</b>	11.3	11.5	9.0	10.0	<b>11.0</b>	11.3	11.5
		kW	7.2	8.0	<b>8.8</b>	9.1	9.2	7.2	8.0	<b>8.8</b>	9.1	9.2
	161AIHS	kVA	11.0	13.0	<b>14.0</b>	15.0	15.5	11.0	13.0	<b>14.0</b>	15.0	15.5
		kW	8.8	10.4	<b>11.2</b>	12.0	12.4	8.8	10.4	<b>11.2</b>	12.0	12.4
	161AIHH	kVA	12.5	14.5	<b>16.0</b>	17.0	17.5	12.5	14.5	<b>16.0</b>	17.0	17.5
		kW	10.0	11.6	<b>12.8</b>	13.6	14.0	10.0	11.6	<b>12.8</b>	13.6	14.0
	161AIHI	kVA	14.5	17.0	<b>19.0</b>	19.5	20.5	14.5	17.0	<b>19.0</b>	19.5	20.5
		kW	11.6	13.6	<b>15.2</b>	15.6	16.4	11.6	13.6	<b>15.2</b>	15.6	16.4
	161AIHJ	kVA	16.0	18.0	<b>23.0</b>	23.5	24.0	16.0	18.0	<b>23.0</b>	23.5	24.0
		kW	12.8	14.4	<b>18.4</b>	18.8	19.2	12.8	14.4	<b>18.4</b>	18.8	19.2
	162AIVD	kVA	21.0	24.0	<b>27.0</b>	29.0	31.0	21.0	24.0	<b>27.0</b>	29.0	31.0
		kW	16.8	19.2	<b>21.6</b>	23.2	24.8	16.8	19.2	<b>21.6</b>	23.2	24.8
	201AIHS	kVA	33.0	37.5	<b>41.0</b>	45.0	47.0	33.0	37.5	<b>41.0</b>	45.0	47.0
		kW	26.4	30.0	<b>32.8</b>	36.0	37.6	26.4	30.0	<b>32.8</b>	36.0	37.6
	201AIHV	kVA	42.0	48.5	<b>53.0</b>	56.0	57.5	42.0	48.5	<b>53.0</b>	56.0	57.5
		kW	33.6	38.8	<b>42.4</b>	44.8	46.0	33.6	38.8	<b>42.4</b>	44.8	46.0
	201AIHB	kVA	48.0	53.0	<b>60.0</b>	62.0	63.0	48.0	53.0	<b>60.0</b>	62.0	63.0
		kW	38.4	42.4	<b>48.0</b>	49.6	50.4	38.4	42.4	<b>48.0</b>	49.6	50.4
	201AIHE	kVA	51.0	59.0	<b>70.0</b>	72.0	74.0	51.0	59.0	<b>70.0</b>	72.0	74.0
		kW	40.8	47.2	<b>56.0</b>	57.6	59.2	40.8	47.2	<b>56.0</b>	57.6	59.2
	202AIVS	kVA	66.0	76.0	<b>83.0</b>	88.0	91.0	66.0	76.0	<b>83.0</b>	88.0	91.0
		kW	52.8	60.8	<b>66.4</b>	70.4	72.8	52.8	60.8	<b>66.4</b>	70.4	72.8
	202AIVJ	kVA	76.0	86.0	<b>100.0</b>	106.0	108.0	76.0	86.0	<b>100.0</b>	106.0	108.0
		kW	60.8	68.8	<b>80.0</b>	84.8	86.4	60.8	68.8	<b>80.0</b>	84.8	86.4
	251AIHD	kVA	110	126	<b>140</b>	145	150	110	126	<b>140</b>	145	150
		kW	88	101	<b>112</b>	116	120	88	101	<b>112</b>	116	120
	251AIHE	kVA	143	164	<b>180</b>	196	206	128	147	<b>160</b>	165	170
		kW	114	131	<b>144</b>	157	165	102	118	<b>128</b>	132	136
AG10	250SI10AI	kVA	168	192	<b>210</b>	230	240	168	192	<b>210</b>	230	240
		kW	134	154	<b>168</b>	184	192	134	154	<b>168</b>	184	192
	250SI20AI	kVA	200	229	<b>250</b>	260	277	200	229	<b>250</b>	260	277
		kW	160	183	<b>200</b>	208	222	160	183	<b>200</b>	208	222
	250MI00AI	kVA	220	252	<b>275</b>	291	300	220	252	<b>275</b>	291	300
		kW	176	202	<b>220</b>	233	240	176	202	<b>220</b>	233	240
	250MI10AI	kVA	260	298	<b>325</b>	340	350	260	298	<b>325</b>	350	360
		kW	208	238	<b>260</b>	272	280	208	238	<b>260</b>	280	288
	250MI20AI	kVA	288	330	<b>360</b>	365	370	288	330	<b>360</b>	365	385
		kW	230	264	<b>288</b>	292	296	230	264	<b>288</b>	292	308
	280MI20AI	kVA	328	376	<b>410</b>	450	470	320	367	<b>400</b>	430	450
		kW	262	301	<b>328</b>	360	376	256	293	<b>320</b>	344	360
	280MI30AI	kVA	360	412	<b>450</b>	480	500	340	390	<b>425</b>	445	460
		kW	288	330	<b>360</b>	384	400	272	312	<b>340</b>	356	368
	280MI40AI	kVA	400	458	<b>500</b>	548	571	400	458	<b>500</b>	530	550
		kW	320	367	<b>400</b>	438	457	320	367	<b>400</b>	424	440
	315MI10AI	kVA	440	504	<b>550</b>	590	610	440	504	<b>550</b>	570	590
		kW	352	403	<b>440</b>	472	488	352	403	<b>440</b>	456	472
	315MI15AI	kVA	480	550	<b>600</b>	650	685	480	550	<b>600</b>	650	685
		kW	384	440	<b>480</b>	520	548	384	440	<b>480</b>	520	548
	315MI20AI	kVA	520	596	<b>650</b>	715	740	520	596	<b>650</b>	715	740
		kW	416	477	<b>520</b>	572	592	416	477	<b>520</b>	572	592
	315MI30AI	kVA	600	687	<b>750</b>	822	856	600	687	<b>750</b>	822	856
		kW	480	550	<b>600</b>	657	685	480	550	<b>600</b>	657	685
	315MI40AI	kVA	664	761	<b>830</b>	890	920	640	733	<b>800</b>	865	890
		kW	531	609	<b>664</b>	712	736	512	587	<b>640</b>	692	712
	355MI70AI	kVA	880	1008	<b>1100</b>	1150	1200	840	962	<b>1050</b>	1100	1150
		kW	704	806	<b>880</b>	920	960	672	770	<b>840</b>	880	920
	355MI80AI	kVA	1040	1191	<b>1300</b>	1400	1450	1000	1146	<b>1250</b>	1300	1350
		kW	832	953	<b>1040</b>	1120	1160	800	917	<b>1000</b>	1040	1080
	355MI90AI	kVA	1184	1356	<b>1480</b>	1600	1650	1120	1283	<b>1400</b>	1500	1550
		kW	947	1085	<b>1184</b>	1280	1320	896	1026	<b>1120</b>	1200	1240

Notes:  $\Delta T = 163^{\circ}\text{C}$ , ambient temperature =  $27^{\circ}\text{C}$ . For the other  $\Delta T$ , ambient temperature =  $40^{\circ}\text{C}$ .

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other voltages, please contact WEG.

# Three-phase alternators with single-phase connection 12 leads / 4 poles

**200 / 240 V (60 Hz) | 190 / 200 V (50 Hz) | 1.0 P.F.**

Line	Model	60 Hz / 200 - 240 V <sup>1)</sup>						50 Hz / 190 - 200 V <sup>1)</sup>				
		$\Delta T$	80 °C	105 °C	125 °C	150 °C	163 °C	80 °C	105 °C	125 °C	150 °C	163 °C
G Plus	161AISR	kVA	6.5	7.5	<b>8.5</b>	9.0	9.5	4.5	5.5	<b>6.1</b>	6.5	6.5
	161AIHS	kVA	8.0	9.0	<b>10.1</b>	11.0	11.5	6.0	7.0	<b>8.1</b>	8.5	9.0
	161AIHH	kVA	9.0	10.5	<b>11.6</b>	12.5	13.0	7.0	8.0	<b>8.8</b>	9.5	10.0
	161AIHI	kVA	11.0	13.0	<b>14.3</b>	15.5	16.0	8.0	9.5	<b>10.5</b>	11.0	11.5
	161AIHJ	kVA	12.0	13.5	<b>15.0</b>	16.0	17.0	10.0	11.5	<b>12.7</b>	13.5	14.0
	162AIVD	kVA	18.0	21.0	<b>23.1</b>	25.0	26.0	12.0	14.0	<b>15.6</b>	17.0	19.0
	201AIHS	kVA	23.9	27.4	<b>29.9</b>	32.8	34.1	18.9	21.7	<b>23.7</b>	25.9	27.0
	201AIHV	kVA	31.0	35.5	<b>38.8</b>	42.5	44.3	23.3	26.7	<b>29.2</b>	31.9	33.3
	201AIHB	kVA	37.7	43.1	<b>47.1</b>	51.6	53.8	26.4	30.2	<b>33.0</b>	36.1	37.7
	201AIHE	kVA	38.7	44.4	<b>48.4</b>	53.0	55.3	32.3	36.9	<b>40.4</b>	44.3	46.1
	202AIVS	kVA	48.0	55.0	<b>59.0</b>	65.0	66.0	39.3	45.0	<b>47.9</b>	52.0	54.0
	202AIVJ	kVA	62.0	71.1	<b>77.5</b>	85.0	88.6	46.2	52.9	<b>57.7</b>	63.2	65.9
	251AIHD	kVA	77	88	<b>96</b>	105	110	62	71	<b>77</b>	84	88
	251AIHE	kVA	99	113	<b>124</b>	135	141	74	85	<b>92</b>	101	105
AG10	250SI10AI	kVA	108	125	<b>135</b>	144	150	97	111	<b>121</b>	133	139
	250SI20AI	kVA	135	155	<b>169</b>	182	188	115	132	<b>144</b>	150	160
	250MI00AI	kVA	148	169	<b>188</b>	200	219	127	146	<b>159</b>	168	173
	250MI10AI	kVA	174	199	<b>218</b>	238	260	150	172	<b>188</b>	202	208
	250MI20AI	kVA	203	233	<b>254</b>	275	292	166	190	<b>208</b>	211	222
	280MI20AI	kVA	219	254	<b>274</b>	297	308	185	212	<b>231</b>	248	260
	280MI30AI	kVA	238	280	<b>297</b>	323	340	196	225	<b>245</b>	257	266
	280MI40AI	kVA	263	300	<b>329</b>	346	375	231	265	<b>289</b>	306	318
	315MI10AI	kVA	277	325	<b>346</b>	372	387	254	291	<b>318</b>	329	341
	315MI15AI	kVA	306	349	<b>381</b>	419	444	277	317	<b>346</b>	375	396
	315MI20AI	kVA	346	404	<b>433</b>	469	487	300	344	<b>375</b>	413	427
	315MI30AI	kVA	388	445	<b>485</b>	531	553	346	397	<b>433</b>	474	494
	315MI40AI	kVA	443	508	<b>554</b>	589	612	370	423	<b>462</b>	499	514

Notes: 1) Voltages for SINGLE-PHASE ZIGZAG PARALLEL or SINGLE-PHASE DELTA DOUBLE connection.

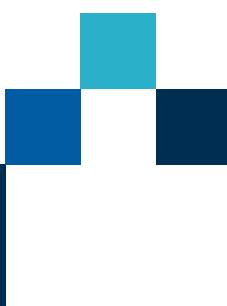
$\Delta T = 163 \text{ }^{\circ}\text{C}$ , ambient temperature =  $27 \text{ }^{\circ}\text{C}$ . For the other  $\Delta T$ , ambient temperature =  $40 \text{ }^{\circ}\text{C}$ .

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other voltages, please contact WEG.



# 6 leads / 4 poles

**380 / 220 V (60 Hz) | 0.8 P.F.**

Line	Model	$\Delta T$	380 V - Y / 220 V - $\Delta$				
			80 °C	105 °C	125 °C	150 °C	163 °C
G Plus	201CIHV	kVA	54.5	62.4	<b>68.1</b>	72.8	75.7
		kW	43.6	49.9	<b>54.5</b>	58.2	60.6
	201CIHB	kVA	60.4	69.2	<b>75.5</b>	80.7	85.0
		kW	48.3	55.4	<b>60.4</b>	64.6	68.0
	201CIHE	kVA	66.0	75.6	<b>88.0</b>	95.0	97.0
		kW	52.8	60.5	<b>70.4</b>	76.0	77.6
	202CIVJ	kVA	105.4	120.7	<b>141.0</b>	144.0	150.0
		kW	84.3	96.6	<b>112.8</b>	115.2	120.0
	251CIHD	kVA	137	157	<b>171</b>	183	190
		kW	109	125	<b>137</b>	146	152
	251CIHE	kVA	171	196	<b>214</b>	230	240
		kW	137	157	<b>171</b>	184	192
AG10	250SI10CI	kVA	208	238	<b>260</b>	290	295
		kW	166	191	<b>208</b>	232	236
	250SI20CI	kVA	250	288	<b>312</b>	345	360
		kW	200	229	<b>250</b>	276	288
	250MI00CI	kVA	292	335	<b>365</b>	400	417
		kW	234	268	<b>292</b>	320	334
	250MI10CI	kVA	324	371	<b>405</b>	460	470
		kW	259	297	<b>324</b>	368	376
	250MI20CI	kVA	378	440	<b>472</b>	517	550
		kW	302	346	<b>378</b>	414	440
	280MI20CI	kVA	412	472	<b>515</b>	550	580
		kW	330	378	<b>412</b>	440	464
	280MI30CI	kVA	456	510	<b>570</b>	600	650
		kW	365	418	<b>456</b>	480	520
	280MI40CI	kVA	484	565	<b>605</b>	650	691
		kW	387	444	<b>484</b>	520	553
	315MI10CI	kVA	520	596	<b>650</b>	700	750
		kW	416	477	<b>520</b>	560	600
	315MI15CI	kVA	570	650	<b>710</b>	800	825
		kW	456	520	<b>568</b>	640	660
	315MI20CI	kVA	642	736	<b>803</b>	875	906
		kW	514	589	<b>642</b>	700	725
	315MI30CI	kVA	740	850	<b>925</b>	1010	1056
		kW	592	678	<b>740</b>	808	845
	315MI40CI	kVA	832	953	<b>1040</b>	1100	1160
		kW	666	763	<b>832</b>	880	928
G Plus	352CIZS	kVA	883	1019	<b>1140</b>	1200	1260
		kW	706	815	<b>912</b>	960	1008
	352CIYS	kVA	968	1118	<b>1250</b>	1265	1319
		kW	774	894	<b>1000</b>	1012	1055
AG10	355MI70CI	kVA	1120	1283	<b>1400</b>	1450	1520
		kW	896	1026	<b>1120</b>	1160	1216
	355MI75CI	kVA	1220	1398	<b>1525</b>	1580	1650
		kW	976	1118	<b>1220</b>	1264	1320
	355MI80CI	kVA	1280	1466	<b>1600</b>	1660	1720
		kW	1024	1178	<b>1280</b>	1328	1376
	355MI90CI	kVA	1440	1650	<b>1800</b>	1950	2000
		kW	1152	1320	<b>1440</b>	1560	1600
	400MI80CI	kVA	1520	1741	<b>1900</b>	2000	2050
		kW	1216	1393	<b>1520</b>	1600	1640
	400MI85CI	kVA	1632	1870	<b>2040</b>	2100	2200
		kW	1306	1496	<b>1632</b>	1680	1760
	400MI90CI	kVA	1720	1971	<b>2150</b>	2355	2455
		kW	1376	1577	<b>1720</b>	1884	1964

Notes:  $\Delta T = 163$  °C, ambient temperature = 27 °C. For the other  $\Delta T$ , ambient temperature = 40 °C.

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other voltages, please contact WEG.

# 6 leads / 4 poles

**440 / 254 V (60 Hz) | 380 / 220 V | (50 Hz) | 0.8 P.F.**

Line	Model	$\Delta T$	60 Hz / 440 V - Y / 254 V - $\Delta$					50 Hz / 380 V - Y / 220 V - $\Delta$				
			80 °C	105 °C	125 °C	150 °C	163 °C	80 °C	105 °C	125 °C	150 °C	163 °C
AG10	250SI10DI	kVA	208	238	<b>260</b>	290	295	168	192	<b>210</b>	230	240
		kW	166	191	<b>208</b>	232	236	134	154	<b>168</b>	184	192
	250SI20DI	kVA	250	288	<b>312</b>	345	360	200	229	<b>250</b>	260	277
		kW	200	230	<b>250</b>	276	288	160	183	<b>200</b>	208	222
	250MI00DI	kVA	292	335	<b>365</b>	400	417	220	252	<b>275</b>	291	300
		kW	234	268	<b>292</b>	320	334	176	202	<b>220</b>	233	240
	250MI10DI	kVA	324	371	<b>405</b>	460	470	260	298	<b>325</b>	340	350
		kW	259	297	<b>324</b>	368	376	208	238	<b>260</b>	272	280
	250MI20DI	kVA	378	440	<b>472</b>	517	550	288	330	<b>360</b>	365	370
		kW	302	352	<b>378</b>	414	440	230	264	<b>288</b>	292	296
	280MI20DI	kVA	412	472	<b>515</b>	550	580	328	376	<b>410</b>	450	470
		kW	330	378	<b>412</b>	440	464	262	301	<b>328</b>	360	376
	280MI30DI	kVA	456	510	<b>570</b>	600	650	360	412	<b>450</b>	480	500
		kW	365	408	<b>456</b>	480	520	288	330	<b>360</b>	384	400
	280MI40DI	kVA	484	565	<b>605</b>	650	691	400	458	<b>500</b>	548	571
		kW	387	452	<b>484</b>	520	553	320	367	<b>400</b>	438	457
	315MI10DI	kVA	520	596	<b>650</b>	700	750	440	504	<b>550</b>	590	610
		kW	416	477	<b>520</b>	560	600	352	403	<b>440</b>	472	488
	315MI15DI	kVA	570	650	<b>710</b>	780	825	480	550	<b>600</b>	650	685
		kW	456	520	<b>568</b>	624	660	384	440	<b>480</b>	520	548
	315MI20DI	kVA	642	736	<b>803</b>	875	906	520	596	<b>650</b>	715	740
		kW	514	589	<b>642</b>	700	725	416	477	<b>520</b>	572	592
	315MI30DI	kVA	740	850	<b>925</b>	1010	1056	600	687	<b>750</b>	822	856
		kW	592	680	<b>740</b>	808	845	480	550	<b>600</b>	657	685
	315MI40DI	kVA	832	953	<b>1040</b>	1100	1160	664	761	<b>830</b>	890	920
		kW	666	763	<b>832</b>	880	928	531	609	<b>664</b>	712	736
G Plus	352DIZS	kVA	883	1019	<b>1140</b>	1200	1260	729	842	<b>942</b>	949	989
		kW	706	815	<b>912</b>	960	1008	583	674	<b>754</b>	759	791
	352DIYS	kVA	968	1118	<b>1250</b>	1265	1319	787	909	<b>1017</b>	1024	1068
		kW	774	894	<b>1000</b>	1012	1055	630	727	<b>814</b>	819	854
AG10	355MI80DI	kVA	1168	1338	<b>1460</b>	1600	1670	1040	1190	<b>1300</b>	1350	1400
		kW	934	1070	<b>1168</b>	1280	1336	832	952	<b>1040</b>	1080	1120
	355MI90DI	kVA	1320	1512	<b>1650</b>	1790	1850	1120	1283	<b>1400</b>	1450	1500
		kW	1056	1210	<b>1320</b>	1432	1480	896	1026	<b>1120</b>	1160	1200
	400MI75DI	kVA	1400	1604	<b>1750</b>	1800	1900	1160	1329	<b>1450</b>	1500	1550
		kW	1120	1283	<b>1400</b>	1440	1520	928	1063	<b>1160</b>	1200	1240
	400MI80DI	kVA	1520	1741	<b>1900</b>	1950	2000	1200	1375	<b>1500</b>	1550	1600
	400MI85DI	kVA	1560	1787	<b>1950</b>	2050	2150	1240	1421	<b>1550</b>	1600	1680
		kW	1216	1393	<b>1520</b>	1560	1600	960	1100	<b>1200</b>	1240	1280
	400MI90DI	kVA	1600	1833	<b>2000</b>	2150	2250	1320	1512	<b>1650</b>	1800	1850
		kW	1280	1466	<b>1600</b>	1720	1800	1056	1210	<b>1320</b>	1440	1480

Notes:  $\Delta T = 163$  °C, ambient temperature = 27 °C. For the other  $\Delta T$ , ambient temperature = 40 °C.

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other voltages, please contact WEG.

# 6 leads / 4 poles

## 480 V (60 Hz) | 400 V (50 Hz) | 0.8 P.F.

Line	Model		60 Hz / 480 V - Y					50 Hz / 400 V - Y				
		$\Delta T$	80 °C	105 °C	125 °C	150 °C	163 °C	80 °C	105 °C	125 °C	150 °C	163 °C
AG10	250SI10EI	kVA	208	238	<b>260</b>	290	295	168	192	<b>210</b>	230	240
		kW	166	191	<b>208</b>	232	236	134	154	<b>168</b>	184	192
	250SI20EI	kVA	250	288	<b>312</b>	345	360	200	229	<b>250</b>	260	277
		kW	200	230	<b>250</b>	276	288	160	183	<b>200</b>	208	222
	250MI00EI	kVA	292	335	<b>365</b>	400	417	220	252	<b>275</b>	291	300
		kW	234	268	<b>292</b>	320	334	176	202	<b>220</b>	233	240
	250MI10EI	kVA	324	371	<b>405</b>	460	470	260	298	<b>325</b>	340	350
		kW	259	297	<b>324</b>	368	376	208	238	<b>260</b>	272	280
	250MI20EI	kVA	378	440	<b>472</b>	517	550	288	330	<b>360</b>	365	370
		kW	302	352	<b>378</b>	414	440	230	264	<b>288</b>	292	296
	280MI20EI	kVA	412	472	<b>515</b>	550	580	328	376	<b>410</b>	450	470
		kW	330	378	<b>412</b>	440	464	262	301	<b>328</b>	360	376
G Plus	280MI30EI	kVA	456	510	<b>570</b>	600	650	360	412	<b>450</b>	480	500
		kW	365	408	<b>456</b>	480	520	288	330	<b>360</b>	384	400
	280MI40EI	kVA	484	565	<b>605</b>	650	691	400	458	<b>500</b>	548	571
		kW	387	452	<b>484</b>	520	553	320	367	<b>400</b>	438	457
	315MI10EI	kVA	520	596	<b>650</b>	700	750	440	504	<b>550</b>	590	610
		kW	416	477	<b>520</b>	560	600	352	403	<b>440</b>	472	488
	315MI15EI	kVA	570	650	<b>710</b>	780	825	480	550	<b>600</b>	650	685
		kW	456	520	<b>568</b>	624	660	384	440	<b>480</b>	520	548
	315MI20EI	kVA	642	736	<b>803</b>	875	906	520	596	<b>650</b>	715	740
		kW	514	589	<b>642</b>	700	725	416	477	<b>520</b>	572	592
	315MI30EI	kVA	740	850	<b>925</b>	1010	1056	600	687	<b>750</b>	822	856
		kW	592	680	<b>740</b>	808	845	480	550	<b>600</b>	657	685
	315MI40EI	kVA	832	953	<b>1040</b>	1100	1160	664	761	<b>830</b>	890	920
		kW	666	763	<b>832</b>	880	928	531	609	<b>664</b>	712	736
AG10	352EI2S	kVA	883	1019	<b>1140</b>	1200	1260	729	842	<b>942</b>	949	989
		kW	706	815	<b>912</b>	960	1008	583	674	<b>754</b>	759	791
	352EIY2S	kVA	968	1118	<b>1250</b>	1265	1319	787	909	<b>1017</b>	1024	1068
		kW	774	894	<b>1000</b>	1012	1065	630	727	<b>814</b>	819	854
AG10	355MI70EI	kVA	1120	1283	<b>1400</b>	1450	1520	920	1054	<b>1150</b>	1200	1285
		kW	896	1026	<b>1120</b>	1160	1216	736	843	<b>920</b>	960	1028
	355MI80EI	kVA	1280	1466	<b>1600</b>	1660	1720	1008	1155	<b>1260</b>	1315	1375
		kW	1024	1173	<b>1280</b>	1328	1376	806	924	<b>1008</b>	1052	1100
	355MI90EI	kVA	1440	1650	<b>1800</b>	1950	2000	1200	1375	<b>1500</b>	1600	1650
		kW	1152	1320	<b>1440</b>	1560	1600	960	1100	<b>1200</b>	1280	1320
	400MI80EI	kVA	1520	1741	<b>1900</b>	2000	2050	1240	1421	<b>1550</b>	1615	1660
		kW	1216	1393	<b>1520</b>	1600	1640	992	1137	<b>1240</b>	1292	1328
AG10	400MI85EI	kVA	1632	1870	<b>2040</b>	2100	2200	1320	1512	<b>1650</b>	1720	1800
		kW	1306	1496	<b>1632</b>	1680	1760	1056	1210	<b>1320</b>	1376	1440
	400MI90EI	kVA	1720	1971	<b>2150</b>	2355	2455	1400	1604	<b>1750</b>	1900	1950
		kW	1376	1577	<b>1720</b>	1884	1964	1120	1283	<b>1400</b>	1520	1560

Notes:  $\Delta T = 163$  °C, ambient temperature = 27 °C. For the other  $\Delta T$ , ambient temperature = 40 °C.

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Alternators frame 400 are able to operate at 480/440/380 V - 60 Hz and 400/380 V - 50 Hz. Outputs according to datasheets.

Data subject to change without prior notice.

For other voltages, please contact WEG.

# 6 leads / 4 poles

## 600 / 346 V (60 Hz) | 0.8 P.F.

Line	Model	600 V - Y / 346 V - Δ					
		ΔT	80 °C	105 °C	125 °C	150 °C	163 °C
G Plus	161FISR	kVA	11.0	12.6	<b>13.7</b>	14.7	15.3
		kW	8.8	10.1	<b>11.0</b>	11.8	12.2
	161FIHS	kVA	14.0	16.0	<b>17.5</b>	18.7	20.0
		kW	11.2	12.8	<b>14.0</b>	15.0	16.0
	161FIHH	kVA	15.5	17.7	<b>19.3</b>	20.7	21.5
		kW	12.4	14.2	<b>15.4</b>	16.6	17.2
	161FIHI	kVA	20.2	23.2	<b>25.3</b>	27.1	28.1
		kW	16.2	18.6	<b>20.2</b>	21.7	22.5
	161FIHJ	kVA	20.1	23.0	<b>27.0</b>	28.0	29.0
		kW	16.1	18.4	<b>21.6</b>	22.4	23.2
	162FIVD	kVA	29.4	33.7	<b>42.0</b>	44.0	46.0
		kW	23.5	27.0	<b>33.6</b>	35.2	36.8
	201FIHS	kVA	41.0	47.0	<b>51.0</b>	56.0	58.0
		kW	32.8	37.6	<b>40.8</b>	44.8	46.4
	201FIHV	kVA	54.5	62.4	<b>68.1</b>	72.8	75.7
		kW	43.6	49.9	<b>54.5</b>	58.2	60.6
	201FIHB	kVA	60.4	69.2	<b>75.5</b>	80.7	85.0
		kW	48.3	55.4	<b>60.4</b>	64.6	68.0
	201FIHE	kVA	66.0	75.6	<b>88.0</b>	95.0	97.0
		kW	52.8	60.5	<b>70.4</b>	76.0	77.6
	202FIVJ	kVA	105.4	120.7	<b>141.0</b>	144.0	150.0
		kW	84.3	96.6	<b>112.8</b>	115.2	120.0
	251FIHD	kVA	137	157	<b>171</b>	183	190
		kW	110	126	<b>137</b>	146	152
	251FIHE	kVA	171	196	<b>214</b>	230	240
		kW	137	157	<b>171</b>	184	192
AG10	250SI10FI	kVA	208	238	<b>260</b>	290	295
		kW	166	191	<b>208</b>	232	236
	250SI20FI	kVA	250	288	<b>312</b>	345	360
		kW	200	229	<b>250</b>	276	288
	250MI00FI	kVA	292	335	<b>365</b>	400	417
		kW	234	268	<b>292</b>	320	334
	250MI10FI	kVA	324	371	<b>405</b>	460	470
		kW	259	297	<b>324</b>	368	376
	250MI20FI	kVA	378	440	<b>472</b>	517	550
		kW	302	346	<b>378</b>	414	440
	280MI20FI	kVA	412	472	<b>515</b>	550	580
		kW	330	378	<b>412</b>	440	464
	280MI30FI	kVA	456	510	<b>570</b>	600	650
		kW	365	418	<b>456</b>	480	520
	280MI40FI	kVA	484	565	<b>605</b>	650	691
		kW	387	444	<b>484</b>	520	553
	315MI10FI	kVA	520	596	<b>650</b>	700	750
		kW	416	477	<b>520</b>	560	600
	315MI15FI	kVA	570	650	<b>710</b>	780	825
		kW	456	520	<b>568</b>	624	660
	315MI20FI	kVA	642	736	<b>803</b>	875	906
		kW	514	589	<b>642</b>	700	725
	315MI30FI	kVA	740	850	<b>925</b>	1010	1056
		kW	592	678	<b>740</b>	808	845
	315MI40FI	kVA	832	953	<b>1040</b>	1100	1160
		kW	666	763	<b>832</b>	880	928
G Plus	352FIZS	kVA	883	1019	<b>1140</b>	1200	1260
		kW	706	815	<b>912</b>	960	1008
	352FIYS	kVA	968	1118	<b>1250</b>	1265	1319
		kW	774	894	<b>1000</b>	1012	1055
AG10	355MI70FI	kVA	1120	1283	<b>1400</b>	1450	1515
		kW	896	1026	<b>1120</b>	1160	1212
	355MI80FI	kVA	1280	1466	<b>1600</b>	1700	1850
		kW	1024	1173	<b>1280</b>	1360	1480
	355MI90FI	kVA	1400	1604	<b>1750</b>	1900	1950
		kW	1120	1283	<b>1400</b>	1520	1560
	400MI80FI	kVA	1520	1741	<b>1900</b>	2000	2050
		kW	1216	1393	<b>1520</b>	1600	1640
	400MI85FI	kVA	1680	1925	<b>2100</b>	2275	2500
		kW	1344	1540	<b>1680</b>	1820	2000
	400MI90FI	kVA	1720	1971	<b>2150</b>	2355	2550
		kW	1376	1577	<b>1720</b>	1884	2040

Notes:  $\Delta T = 163^{\circ}\text{C}$ , ambient temperature =  $27^{\circ}\text{C}$ . For the other  $\Delta T$ , ambient temperature =  $40^{\circ}\text{C}$ .

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other voltages, please contact WEG.

# 6 leads / 4 poles

## 415 / 240 V (50 Hz) | 0.8 P.F.

Line	Model	415 V - Y / 240 V - Δ					
		ΔT	80 °C	105 °C	125 °C	150 °C	163 °C
G Plus	161HISR	KVA	9.1	10.4	11.3	12.2	12.6
		KW	7.3	8.3	9.0	9.8	10.1
	161HHS	KVA	11.6	13.2	14.5	15.5	16.6
		KW	9.3	10.6	11.6	12.4	13.3
	161HIHH	KVA	12.8	14.6	16.0	17.1	17.8
		KW	10.2	11.7	12.8	13.7	14.2
	161HIHI	KVA	16.7	19.2	20.9	22.4	23.3
		KW	13.4	15.4	16.7	17.9	18.6
	161HIHJ	KVA	16.6	19.0	22.4	23.2	24.0
		KW	13.3	15.2	17.9	18.6	19.2
	162HVD	KVA	24.4	27.9	34.8	36.5	38.1
		KW	19.5	22.3	27.8	29.2	30.5
	201HHS	KVA	34.0	39.0	43.0	47.0	49.0
		KW	27.2	31.2	34.4	37.6	39.2
	201HIHV	KVA	45.2	51.7	56.5	60.4	62.8
		KW	36.2	41.4	45.2	48.3	50.2
	201HIHB	KVA	50.1	57.4	62.6	66.9	70.5
		KW	40.1	45.9	50.1	53.5	56.4
	201HIHE	KVA	54.7	62.7	73.0	78.8	80.5
		KW	43.8	50.2	58.4	63.0	64.4
	202HVS	KVA	66.0	76.0	83.0	88.0	91.0
		KW	52.8	60.8	66.4	70.4	72.8
	202HVIJ	KVA	87.4	100.1	117.0	119.5	124.5
		KW	69.9	80.1	93.6	95.6	99.6
	251HIHD	KVA	113	130	141	151	157
		KW	90	104	113	121	126
	251HIHE	KVA	141	162	177	190	199
		KW	113	130	142	152	159
AG10	250SI10HI	KVA	168	192	210	230	240
		KW	134	154	168	184	192
	250SI20HI	KVA	200	229	250	260	277
		KW	160	183	200	208	222
	250MI00HI	KVA	220	252	275	291	300
		KW	176	202	220	233	240
	250MI10HI	KVA	260	298	325	340	350
		KW	208	238	260	272	280
	250MI20HI	KVA	288	330	360	365	370
		KW	230	264	288	292	296
	280MI20HI	KVA	328	376	410	450	470
		KW	262	301	328	360	376
	280MI30HI	KVA	360	412	450	480	500
		KW	288	330	360	384	400
	280MI40HI	KVA	400	458	500	548	571
		KW	320	367	400	438	457
	315MI10HI	KVA	440	504	550	590	610
		KW	352	403	440	472	488
	315MI15HI	KVA	480	550	600	650	685
		KW	384	440	480	520	548
	315MI20HI	KVA	520	596	650	715	740
		KW	416	477	520	572	592
	315MI30HI	KVA	600	687	750	822	856
		KW	480	550	600	657	685
	315MI40HI	KVA	664	761	830	890	920
		KW	531	609	664	712	736
G Plus	352HZS	KVA	732	845	946	996	1045
		KW	586	676	757	797	836
	352HIYS	KVA	803	927	1037	1049	1094
		KW	642	742	830	839	875
AG10	355MI70HI	KVA	880	1008	1100	1150	1200
		KW	704	806	880	920	960
	355MI80HI	KVA	1040	1191	1300	1420	1470
		KW	832	953	1040	1136	1176
	355MI90HI	KVA	1184	1356	1480	1600	1650
		KW	947	1085	1184	1280	1320
	400MI80HI	KVA	1240	1421	1550	1615	1660
		KW	992	1137	1240	1292	1328
	400MI85HI	KVA	1320	1512	1650	1720	1800
		KW	1056	1210	1320	1376	1440
	400MI90HI	KVA	1400	1604	1750	1900	1950
		KW	1120	1283	1400	1520	1560

Notes:  $\Delta T = 163^{\circ}\text{C}$ , ambient temperature =  $27^{\circ}\text{C}$ . For the other  $\Delta T$ , ambient temperature =  $40^{\circ}\text{C}$ .

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Alternators frame 400 are able to operate at 415/400/380 V - 50 Hz. Outputs according to datasheets.

Data subject to change without prior notice.

For other voltages, please contact WEG.

# 12 leads / 4 poles

**415 / 208 V (50 Hz) | 240 / 120 V (50 Hz) | 0.8 P.F.**

Line	Model	415 V - Y / 208 V - YY / 240 V - Δ / 120 V - ΔΔ					
		ΔT	80 °C	105 °C	125 °C	150 °C	163 °C
G Plus	161PISR	KVA	9.1	10.4	11.3	12.2	12.6
		KW	7.3	8.3	9.0	9.8	10.1
	161PIHS	KVA	11.6	13.2	14.5	15.5	16.6
		KW	9.3	10.6	11.6	12.4	13.3
	161PIHH	KVA	12.8	14.6	16.0	17.1	17.8
		KW	10.2	11.7	12.8	13.7	14.2
	161PIHI	KVA	16.7	19.2	20.9	22.4	23.3
		KW	13.4	15.4	16.7	17.9	18.6
	161PIHJ	KVA	16.6	19.0	22.4	23.2	24.0
		KW	13.3	15.2	17.9	18.6	19.2
	162PIVD	KVA	24.4	27.9	34.8	36.5	38.1
		KW	19.5	22.3	27.8	29.2	30.5
	201PIHS	KVA	34.0	39.0	43.0	47.0	49.0
		KW	27.2	31.2	34.4	37.6	39.2
	201PIHV	KVA	45.2	51.7	56.5	60.4	62.8
		KW	36.2	41.4	45.2	48.3	50.2
	201PIHB	KVA	50.1	57.4	62.6	66.9	70.5
		KW	40.1	45.9	50.1	53.5	56.4
AG10	201PIHE	KVA	54.7	62.7	73.0	78.8	80.5
		KW	43.8	50.2	58.4	63.0	64.4
	202PIVS	KVA	66.0	76.0	83.0	88.0	91.0
		KW	52.8	60.8	66.4	70.4	72.8
	202PIVJ	KVA	87.4	100.1	117.0	119.5	124.5
		KW	69.9	80.1	93.6	95.6	99.6
	251PIHD	KVA	113	130	141	151	157
		KW	90	104	113	121	126
	251PIHE	KVA	141	162	177	190	199
		KW	113	130	142	152	159
	250SI10PI	KVA	168	192	210	230	240
		KW	134	154	168	184	192
	250SI20PI	KVA	200	229	250	260	277
		KW	160	183	200	208	222
	250MI00PI	KVA	220	252	275	291	300
		KW	176	202	220	233	240
	250MI10PI	KVA	260	298	325	340	350
		KW	208	238	260	272	280
	250MI20PI	KVA	288	330	360	365	370
		KW	230	264	288	292	296
	280MI20PI	KVA	328	376	410	450	470
		KW	262	301	328	360	376
	280MI30PI	KVA	360	412	450	480	500
		KW	288	330	360	384	400
	280MI40PI	KVA	400	458	500	548	571
		KW	320	367	400	438	457
	315MI10PI	KVA	440	504	550	590	610
		KW	352	403	440	472	488
	315MI15PI	KVA	480	550	600	650	685
		KW	384	440	480	520	548
	315MI20PI	KVA	520	596	650	715	740
		KW	416	477	520	572	592
	315MI30PI	KVA	600	687	750	822	856
		KW	480	550	600	657	685
	315MI40PI	KVA	664	761	830	890	920
		KW	531	609	664	712	736
G Plus	352PIXS	KVA	674	779	871	911	950
		KW	539	623	697	729	760
	355MI70PI	KVA	880	1008	1100	1150	1200
		KW	704	806	880	920	960
AG10	355MI80PI	KVA	1040	1191	1300	1400	1450
		KW	832	953	1040	1120	1160
	355MI90PI	KVA	1184	1356	1480	1600	1650
		KW	947	1085	1184	1280	1320

Notes:  $\Delta T = 163 \text{ }^{\circ}\text{C}$ , ambient temperature =  $27 \text{ }^{\circ}\text{C}$ . For the other  $\Delta T$ , ambient temperature =  $40 \text{ }^{\circ}\text{C}$ .

According to standards: IEC 60034-1 - NBR 5117 - NEMA: MG1 VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.

Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other voltages, please contact WEG.

# Characteristic data

## 0.8 P.F. / insulation class H (180 °C) / 12 leads

Line	Model	50 Hz				60 Hz				Inertia <sup>1)</sup> J (kgm <sup>2</sup> )	Weight <sup>2)</sup> (kg)	Gravity center (mm)			
		Xd' (%) Full load	Xd'' (%) Full load	Efficiency (%) for 200/400 V		Xd' (%) Full load	Xd'' (%) Full load	Efficiency (%) for 240/480 V				B15	B3/B35		
		200/400 V	200/400 V	% loads		240/480 V	240/480 V	% loads							
G Plus	161AISR	12.64	8.96	64.60	70.20	72.50	14.61	10.36	70.60	74.90	76.50	0.17	106	237	199
	161AIHS	15.27	11.07	71.20	73.40	73.10	15.85	11.49	76.40	78.20	77.80	0.18	118	242	204
	161AIHH	13.65	10.05	77.80	78.90	78.10	15.00	11.04	81.00	81.50	80.50	0.18	123	242	205
	161AIHI	14.61	10.91	80.40	80.90	79.80	16.67	12.44	83.30	83.10	81.70	0.19	132	244	209
	161AIHJ	12.31	9.28	84.70	84.30	82.90	12.17	9.18	86.60	86.40	85.30	0.22	145	250	217
	162AIVD	9.74	7.54	81.80	83.70	83.80	11.00	8.52	84.80	86.00	85.80	0.26	181	283	261
	201AIHS	21.61	17.20	87.57	86.22	84.15	22.59	17.98	88.86	87.72	85.87	0.36	231	324	304
	201AIHV	21.74	18.31	89.20	87.50	85.50	24.10	20.29	90.00	88.50	86.70	0.40	245	332	312
	201AIHB	20.11	17.17	88.00	87.50	86.20	23.91	20.41	89.40	88.60	87.10	0.45	267	343	322
	201AIHE	22.75	19.55	81.31	83.24	83.42	22.25	19.12	84.30	86.40	86.90	0.49	281	351	329
	202AIVS	20.19	17.40	88.67	87.79	86.27	22.30	19.21	89.66	88.84	87.41	0.52	311	383	347
	202AIVJ	19.19	16.78	91.50	90.60	89.42	21.27	18.60	92.60	91.50	90.30	0.63	355	406	380
	251AIHD	22.80	15.60	90.30	89.10	87.50	23.70	16.20	91.50	90.40	89.00	1.30	428	383	347
	251AIHE	21.90	15.30	88.40	88.00	86.8	22.80	15.90	89.90	89.60	88.50	1.42	460	403	366
AG10	250SI10AI	14.89	10.68	92.82	92.51	91.80	15.82	11.26	93.16	93.11	92.60	2.37	638	417	513
	250SI20AI	15.86	11.45	93.11	92.73	91.99	16.34	11.68	93.51	93.32	92.76	2.58	690	437	533
	250MI00AI	15.92	11.47	92.85	92.41	91.63	16.64	11.97	93.27	93.09	92.51	3.00	787	472	553
	250MI10AI	13.54	10.01	93.82	93.50	92.85	14.59	10.67	94.19	94.06	93.58	3.23	843	497	578
	250MI20AI	13.21	9.91	94.21	93.90	93.28	14.09	10.46	94.56	94.44	93.99	3.53	843	529	611
	280MI20AI	14.84	10.67	93.68	94.12	93.91	14.91	10.71	94.39	94.80	94.63	4.82	1069	520	651
	280MI30AI	17.10	12.46	94.50	94.54	94.09	18.05	13.15	95.12	95.16	94.77	5.23	1128	540	671
	280MI40AI	11.61	8.39	93.59	94.15	94.04	12.55	9.07	94.19	94.79	94.77	5.42	1153	550	681
	315MI10AI	17.78	12.54	91.86	92.25	91.85	18.01	12.70	92.75	93.24	92.99	6.53	1248	528	662
	315MI15AI	15.92	11.48	93.24	93.85	93.68	16.86	12.16	93.85	94.56	94.50	7.24	1381	568	702
	315MI20AI	16.13	11.63	93.45	93.84	93.59	17.08	12.31	94.18	94.58	94.39	7.24	1381	568	702
	315MI30AI	11.59	8.29	93.19	94.08	94.20	14.90	10.67	93.88	94.74	94.89	7.94	1517	608	742
	315MI40AI	15.68	11.55	94.09	94.53	94.38	15.72	11.58	94.73	95.16	95.04	8.50	1598	633	767
	355MI70AI	13.90	10.00	94.50	95.30	95.50	14.80	10.60	93.80	94.60	94.80	20.70	2542	761	820
	355MI80AI	17.60	12.70	93.60	94.10	94.00	18.10	13.10	94.30	94.80	94.80	21.80	2636	772	834
	355MI90AI	21.30	15.40	94.00	94.20	93.90	21.60	15.60	94.70	94.90	94.70	23.00	2731	783	845
	400MI80AI	19.8	12.2	94.6	95.4	95.6	20.2	12.5	95.1	95.9	96.1	32.41	3880	772	788
	400MI85AI	21.7	13.4	94.8	95.5	95.6	22.3	13.8	95.1	95.7	95.7	33.21	3941	776	793
	400MI90AI	23.0	14.3	95.0	95.6	95.6	24.3	15.0	95.3	95.8	95.7	34.01	3999	781	798

Notes: 1) Inertia for alternators with B15T mounting type.

2) The weight value can change +/-10% depending on the flange and disc combination.

Ambient temperature = 40 °C.

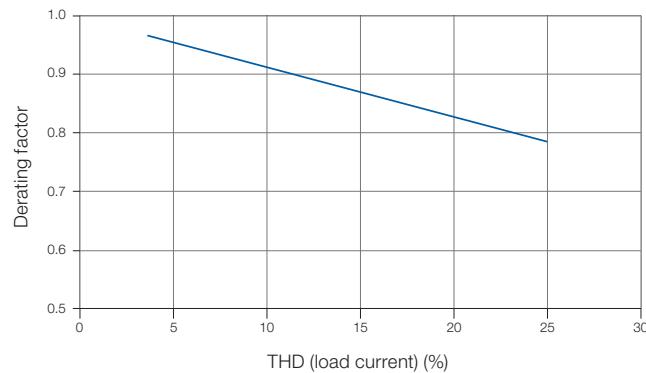
Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other alternator models, please contact WEG.

# Power reduction factor for non-linear loads

Devices using thyristors or circuits with SCR may insert high-frequency current harmonics that affect the alternator waveform, causing overheating. For these cases, the alternator power must be limited according to the diagram THD x Derating Factor, as follow:



THD = Total Harmonic Distortion

Note: non-linear loads like no-breaks, inverters, etc.

## Reactance conversion

Reactance conversion for synchronous alternators in different applications.

Formula:

$$X_2 = X_1 \times (S_2/S_1) \times (f_2/f_1) \times (V_1/V_2)^2$$

Where:

X1 = Known reactance

X2 = Required reactance

S1 = Known power

S2 = Required power

f1 = Known frequency

f2 = Required frequency

V1 = Known voltage

V2 = Required voltage



# Calculation of the grounding coil

$$X_{dr} = \frac{U_n \times 0.3}{\sqrt{3} I_n}$$

Where:

$U_n$  = alternator rated voltage

$I_n$  = alternator rated phase current. It also must be observed:

- a) The coil must have linear characteristic up to  $0.3 \times I_n$ .
- b) It must be thermally resistant to  $0.4 \times I_n$ .

## Auxiliary formulary

### Alternator rated current

$$A = \frac{kVA \times 1000}{(V \times \sqrt{3})}$$

Where:

$A$  = Amps

$V$  = Voltage

$kVA$  = Alternator rated apparent power

### Alternator driving power

$$CV = \frac{kVA \times \cos\varphi}{0.736 \times \eta}$$

Where:

$CV$  = Alternator driving machine power

$kVA$  = Alternator rated apparent power

$\cos\varphi$  = Power factor (referred to load)

$\eta$  = Alternator efficiency (%)

### Driving motor power given in kW (reference power)

$$P_{kW} = P_{cv} \times 0.736$$

Where:

$P_{kW}$  = Power in kW

$P_{cv}$  = Power in HP

### Active power (kW)

$$P_{kW} = P_{kVA} \times \cos\varphi$$

Where:

$P_{kVA}$  = Alternator rated apparent power

$P_{kW}$  = Alternator rated active power

$\cos\varphi$  = Power factor (0.8)

## Pulley and belts data

Diameter of drive pulley ( $D_m$ )		mm	
Diameter of driven pulley ( $D_a$ )		mm	
Pulley width ( $L$ )		mm	
Distance between belt center to shaft shoulder ( $x$ )		mm	
Distance between centers ( $D_c$ )		mm	
Which of the figures do correspond to application	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
What is value of the angle ( $\beta$ )		~ deg	
Belt type			
Number of belts			

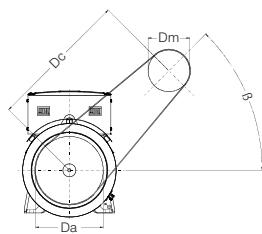
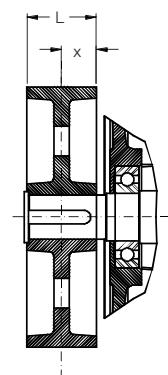


Figure 1

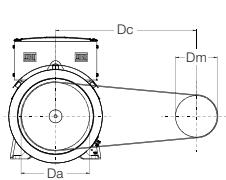


Figure 2

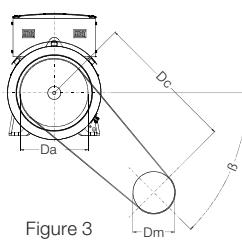
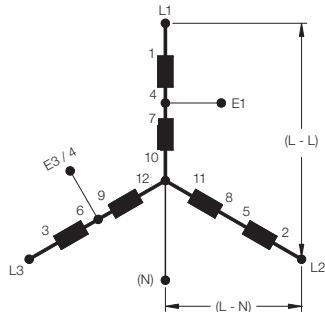


Figure 3

# Wiring diagram

## Three-phase alternators - 12 leads



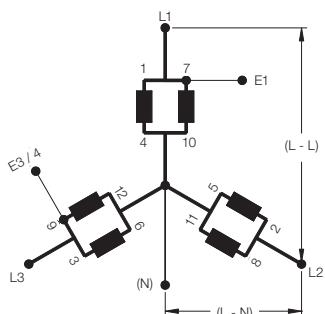
### Star series

Voltage (V) - 60 Hz			
L - L	380 - 416	440	480
L - N	220 - 240	254	277
Reference	190 - 208	220	240
E1 → 7 and E3/4 → 9			

### Voltage (V) - 50 Hz

L - L	380	400
L - N	220	230
Reference	190	
E1 → 7 and E3/4 → 9		

### Star parallel

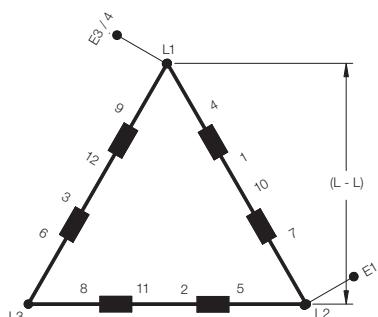


### Voltage (V) - 60 Hz

L - L	190 - 208	220	240
L - N	110 - 120	127	138
Reference	190 - 208		
E1 → 7 and E3/4 → 9			

### Voltage (V) - 50 Hz

L - L	190	200
L - N	110	115
Reference	190	
E1 → 7 and E3/4 → 9		

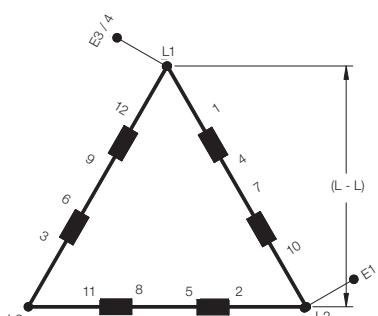


### Delta series 1

Voltage (V) - 60 Hz		
L - L	220 - 240	
Reference	220 - 240	
E1 → 7 and E3/4 → 9		

### Voltage (V) - 50 Hz

L - L	200 - 220	
Reference	200 - 220	
E1 → 7 and E3/4 → 9		



### Delta series 2

Voltage (V) - 60 Hz		
L - L	220 - 240	
Reference	220 - 240	
E1 → 2 and E3/4 → 1		

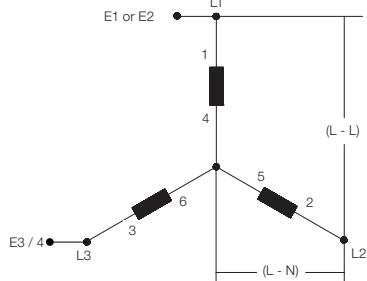
### Voltage (V) - 50 Hz

L - L	200 - 220	
Reference	200 - 220	
E1 → 2 and E3/4 → 1		

Notes: According to standards: IEC 60034-1 - NBR 5117 - NEMA MG1 - VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.  
Data subject to change without prior notice.

# Wiring diagram

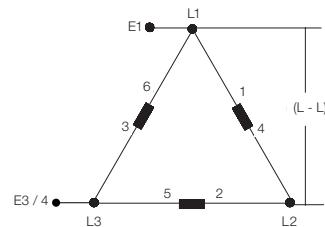
## Three-phase alternators - 6 leads



### Star

Voltage (V) - 60 Hz					
L - L	220	380	440	480	600
L - N	127	220	254	277	346
Reference	220	380	440	480	600
E1 → 1			E2 → 1		
E3/4 → 2					

Voltage (V) - 50 Hz					
L - L	190	380	400	415	
L - N	110	220	230	240	
Reference	190	380	400	415	
E1 → 1			E2 → 1		
E3/4 → 2					

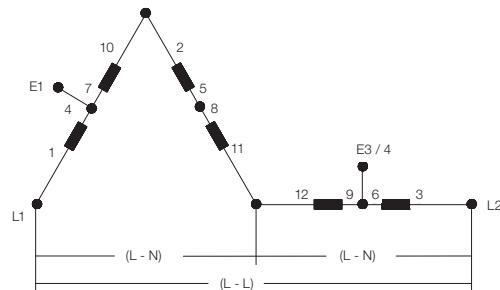


### Delta

Voltage (V) - 60 Hz					
L - L	127	220	254	277	346
L - N	127	220	254	277	346
Reference			E1 → 1		E2 → 1
E3/4 → 2					

Voltage (V) - 50 Hz					
L - L	110	220	230	240	
L - N	110	220	230	240	
Reference			E1 → 1 and E3/4 → 2		

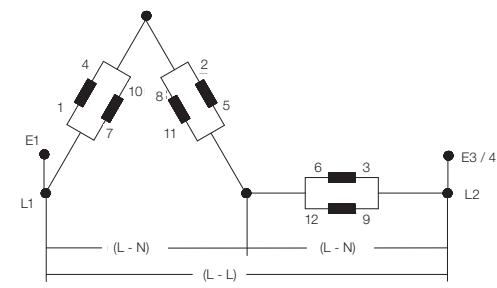
## Three-phase alternators with single-phase connection



### Single-phase zigzag series

Voltage (V) - 60 Hz					
L - L	440 - 480				
L - N	220 - 240				
Reference	290 - 316				
E1 → 7 and E3/4 → 9					

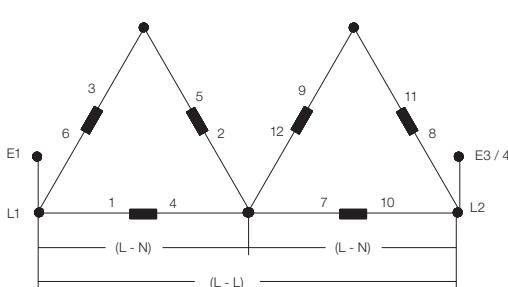
Voltage (V) - 50 Hz					
L - L	380 - 400				
L - N	190 - 200				
Reference	250 - 263				
E1 → 7 and E3/4 → 9					



### Single-phase zigzag parallel

Voltage (V) - 60 Hz					
L - L	200 - 240				
L - N	100 - 120				
Reference	200 - 240				
E1 → 7 and E3/4 → 9					

Voltage (V) - 50 Hz					
L - L	190 - 200				
L - N	95 - 100				
Reference	190 - 200				
E1 → 7 and E3/4 → 9					



### Single-phase delta

Voltage (V) - 60 Hz					
L - L	220 - 240				
L - N	100 - 120				
Reference	220 - 240				
E1 → 1 and E3/4 → 8					

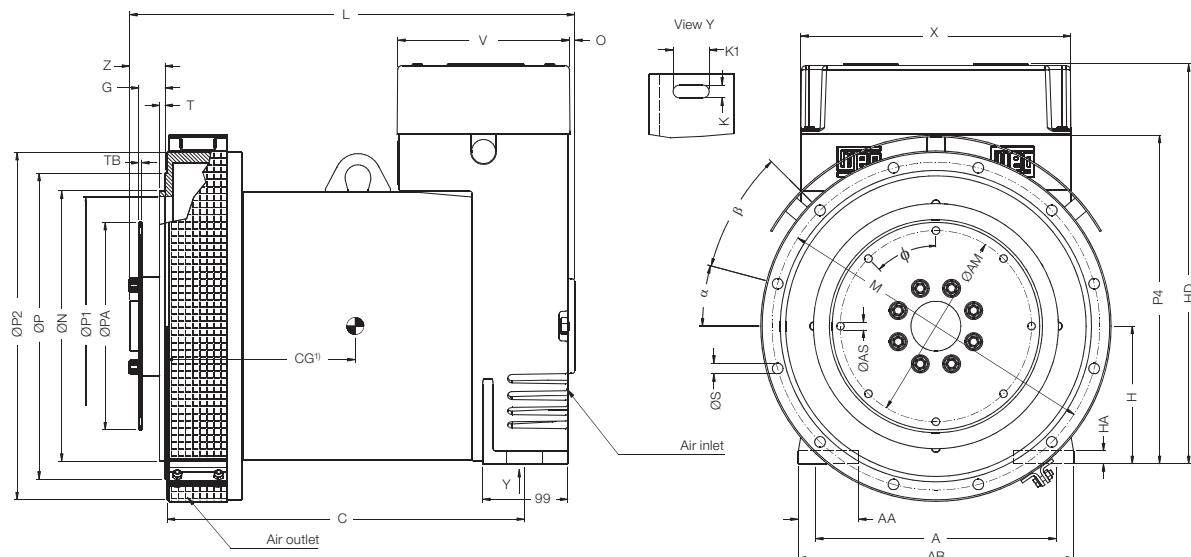
Voltage (V) - 50 Hz					
L - L	190 - 200				
L - N	95 - 100				
Reference	190 - 200				
E1 → 1 and E3/4 → 8					

Notes: According to standards: IEC 60034-1 - NBR 5117 - NEMA MG1 - VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.  
Data subject to change without prior notice.

# Mechanical features

## Single bearing - B15T

### G Plus line (160 frame)



Frame	Dimensions (mm)													
	A	AB	AA	HA	K	K1	H	HD	X	V	C	Z	O	L
160	280	320	70	15	15	42	160	465	314	201	327	2)	8	2)
161											417			
162											497			

Flange										
SAE	ØP	ØP2	P4	ØN	ØP1	ØM	T	ØS	α	β
5	355.6	404	384	314.3	301	333.4	6	11	22.5°	45°
4	404	404	384	361.9	346	381		12.5	15°	30°
3	450	450	408	409.6	388	428.6		12.5		

Coupling disk								
SAE	ØPA	ØAM	G	TB	AS	ϕ	Holes	
6.5	215.9	200.0	30.2	3.1	9	60°	6	
7.5	241.3	222.2	30.2		9	45°	8	
8	263.5	244.5	61.9		10.3	60°	6	
10	314.3	295.3	53.9		10.3	45°	8	
11.5	352.3	333.3	39.6		10.3	45°	8	

Disk	Dimensions (mm)													
	Flange													
	3				4				5					
SAE	L				Z	L				Z	L			
	Z	160	161	162		160	161	162	160		161	162		
6.5									43		433	520	600	
7.5					43	433	520	600	43		433	520	600	
8					66	456	543	623	66		456	546	623	
10	66	456	543	623	66	456	543	623						
11.5	43	433	520	600										

Disk	Connectings		
	Flange		
SAE	3	4	5
6.5			●
7.5	●	●	●
8	●	●	●
10	●	●	
11.5	●		

Notes: 1) Center of gravity data available on page 22.

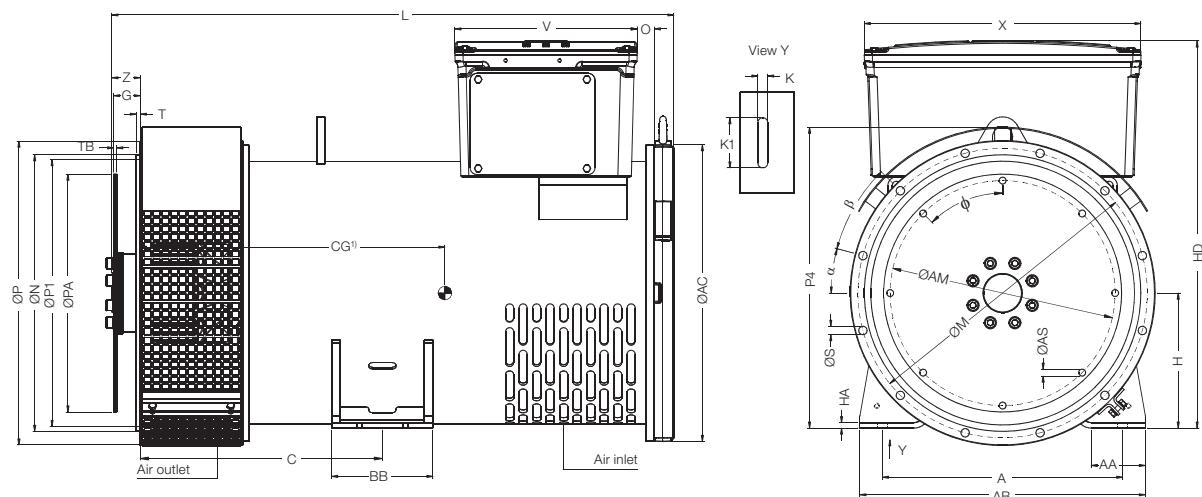
2) It changes according to the combination between flange and coupling disk (see table below).

Data subject to change without prior notice.

# Mechanical features

## Single bearing - B15T

### G Plus line (200 frame)



Frame	Dimensions (mm)													
	A	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	O	L
201	356	423	150	80	8	14.5	74.5	200	440	311	572	388	30	707
202														837

Flange										Coupling disk								
SAE	ØP	P4	ØN	ØP1	ØM	T	ØS	α	β	Holes	SAE	ØPA	ØAM	G	TB	ØAS	ϕ	Holes
5	450	446	314.3	301	333.4	6	11	22.5°	45°	8	7.5	241.3	222.2	30.2	4.6	9	45°	8
4	440	441	361.9	346	381		12.5	15°	30°	12	8	263.5	244.5	61.9		10.3	60°	6
3	450	446	409.6	388	428.6		12.5	15°	30°	12	10	314.3	295.3	53.9		10.3	45°	8
2	490	446	447.7	410	466.7		12.5	15°	30°	12	11.5	352.4	333.3	39.6		10.3	45°	8
1	553	466	511.2	474	530.2		12.5	15°	30°	12								

Disk	Dimensions (mm)																				
	Flange																				
	1		2		3		4		5		SAE	C		Z	C		Z	C		Z	C
	Z		Z		Z		Z		Z			201	202		201	202		201	202		201
7.5							48.2	285.5	358.5	48.2	285.5	358.5	48.2	285.5	358.5	48.2	285.5	358.5			
8							71.8	262	335	71.8	262	335	71.8	262	335	71.8	262	335			
10	71.8	262	335	71.8	262	335	71.8	262	335	71.8	262	335	71.8	262	335						
11.5	48.2	285.5	358.5	48.2	285.5	358.5	48.2	285.5	358.5												

Notes: 1) Center of gravity data available on page 22.

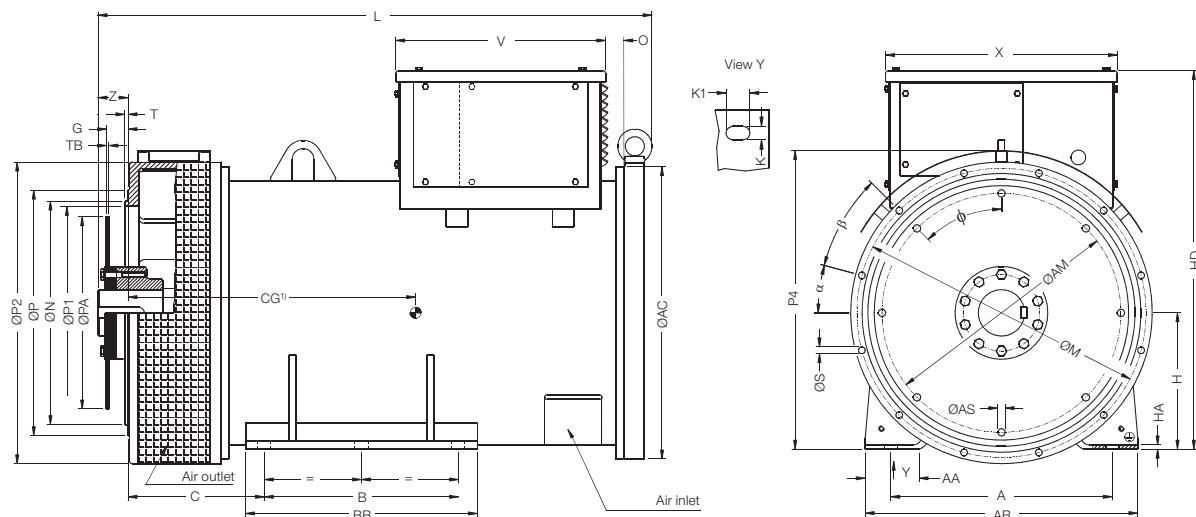
Data subject to change without prior notice.

Disk	Connectings				
	Flange				
SAE	1	2	3	4	5
7.5			•	•	•
8			•	•	•
10	•	•	•	•	•
11.5	•	•	•	•	

# Mechanical features

## Single bearing - B15T

### G Plus line (250 frame)



Frame	Dimensions (mm)																	
	A	B	AB	BB	AA	HA	K	K1	H	HD	ØAC	X	V	C	Z	O	P4	L
251	406	311	500	380	100	7.9	24	36	250	695	536	425	385	252	55	32.5	550	866

Flange									
SAE	ØP	ØP2	ØN	ØP1	ØM	T	ØS	α	β
3	450	553	409.6	390	428.6	6	12.5	15°	30°
2	553		447.7	410	466.7				
1	553		511.2	490	530.2				

Coupling disk								
SAE	ØPA	ØAM	G	TB	AS	ϕ	Holes	
10	314.3	295.3	53.9	4.6	10.3	45°	8	
11.5	352.4	333.3	39.6		10.3			
14	466.7	438.2	25.4		13.5			

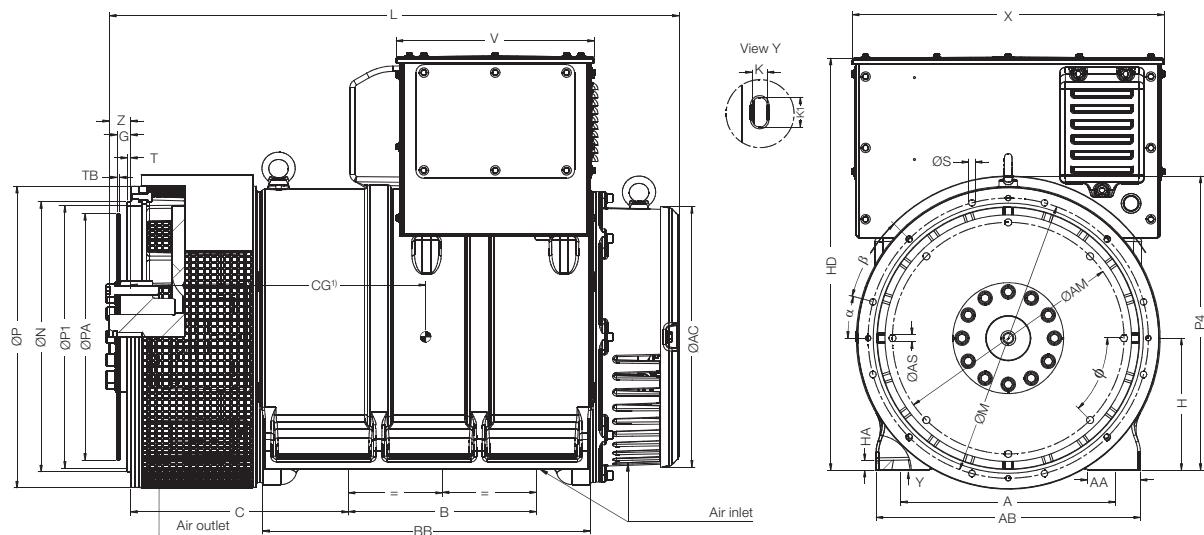
Connectings			
Disk	Flange		
SAE	1	2	3
10		●	●
11.5	●	●	●
14	●		

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Single bearing - B15T

### AG10 line (250 frame)



Frame	Dimensions (mm)														
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	L
250S	406	178		470					250	493	375	780	590	405	928
250M		356	500	620	100	18	28	56							1,078

Flange										
SAE	ØP	ØN	ØP1	ØM	T	ØS	α	β	Z	
3	570	409.6	395	428.6	6	12.5	15°	30°	54.3	557
2		447.6	410	466.7					40.1	
1		511.2	495	530.2						

Connectings			
Disk	Flange		
SAE	1	2	3
10		●	●
11.5	●	●	●
14	●		

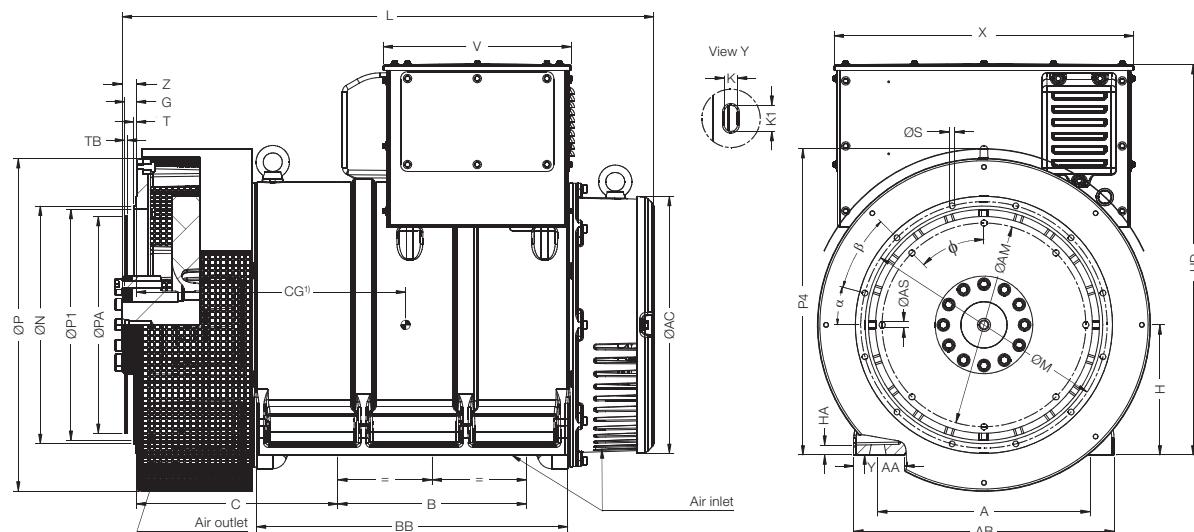
Coupling disk							
SAE	ØPA	ØAM	G	TB	ØAS	ϕ	Holes
10	314.3	295.3	53.9	4.6	10.3	45°	8
11.5	352.4	333.4	39.6		13.5		
14	466.7	438.2	25.4				

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Single bearing - B15T

### AG10 line (280 frame)



Frame	Dimensions (mm)														
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	L
280M	457	406	560	670	110	21	28	56	280	553	405	840	645	429	1,144

Flange											
SAE	ØP	ØN	ØP1	ØM	T	ØP	α	β	Z	P4	
2	620	447.6	410	466.7	6	12.5	15°	30°	40.2	612	
1		511.2	495	530.2							
1/2	715	584.2	540	619.1	14	11.25°	22.5°	30.5	659		
0		647.7	610	679.5							

Connectings				
Disk	Flange			
SAE	0	1/2	1	2
11.5		●	●	●
14	●	●	●	
18	●			

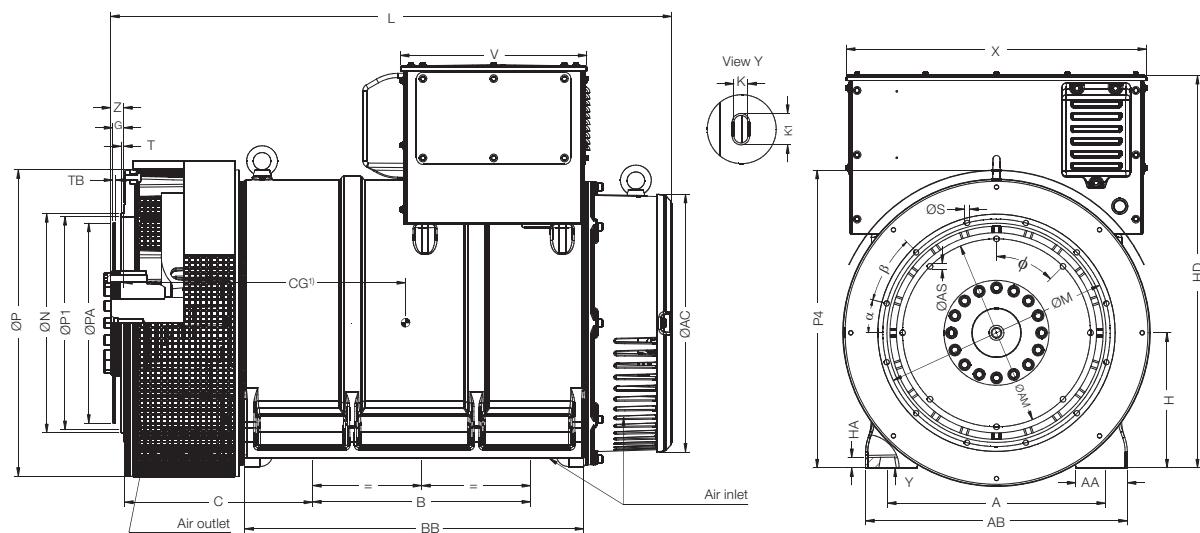
Coupling disk							
SAE	ØPA	ØAM	G	TB	ØAS	ϕ	Holes
11.5	352.4	333.4	39.6	6.2	10.3	45°	8
14	466.7	438.2	25.4		13.5		
18	571.5	542.9	15.7		18	60°	6

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Single bearing - B15T

### AG10 line (315 frame)



Frame	Dimensions (mm)														
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	L
315M	508	508	610	790	120	24	32	64	315	601	435	915	700	435	1,308

Flange											
SAE	ØP	ØN	ØP1	ØM	T	ØS	α	β	Z		
1	715	511.2	495	530.2	6	12.5	15°	30°	40.2		
1/2		584.2	540	619.1		14					
0		647.7	610	679.5		11.25°		22.5°	30.5		
										694	

Connectings			
Disk	Flange		
SAE	0	1/2	1
11.5		●	●
14	●	●	●
18	●		

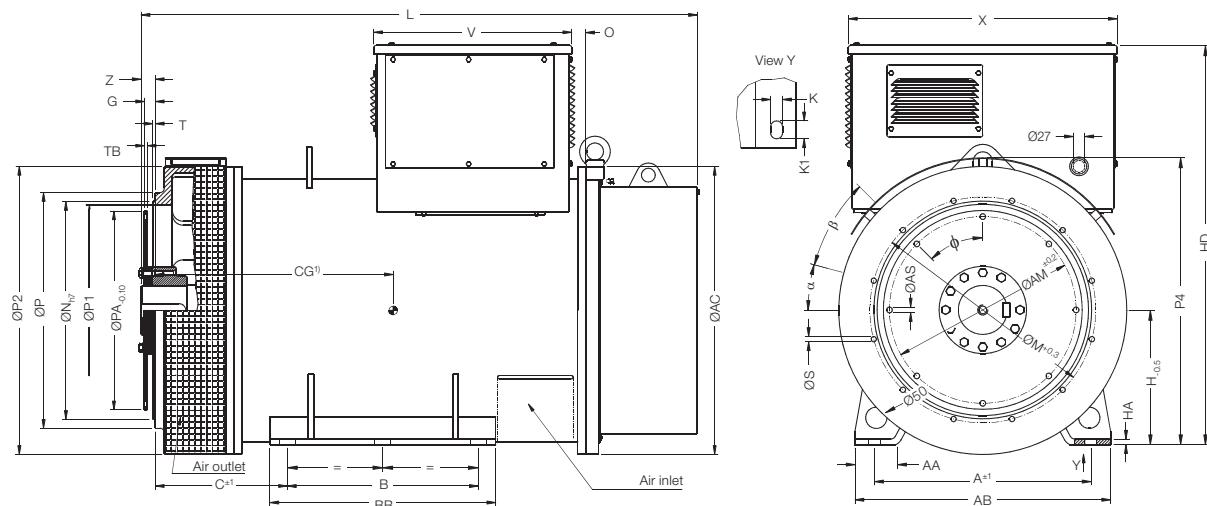
Coupling disk							
SAE	ØPA	ØAM	G	TB	ØAS	ϕ	Holes
11.5	352.4	333.4	39.6	6.2	10.3	45°	8
14	466.7	438.2	25.4		13.5		
18	571.5	542.9	15.7		18		

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Single bearing - B15T

### G Plus line (355 frame)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	O	L
352	528	550	660	740	130	16	28	42	355	780	465	1,053	635	400	36	1,482

Flange											
SAE	ØP	ØP2	ØN	ØP1	ØM	T	ØS	α	β	Z	P4
1	553	780	511.2	496	530.2	6	12.5	15°	30°	16.8	768
0	714		647.7	610	679.5		14	11.15°	22.30°		798
00	-	883	787.4	760	851						

Connectings			
Disk	Flange		
SAE	1	0	00
14	•	•	
18		•	
21			•

Coupling disk							
SAE	ØPA	ØAM	G	TB	ØAS	ϕ	Holes
14	466.7	438.2	25.4	5.85	13.5	45°	8
18	571.5	542.9	15.7		18	60°	6
21	673.1	641.4	0		18	60°	6

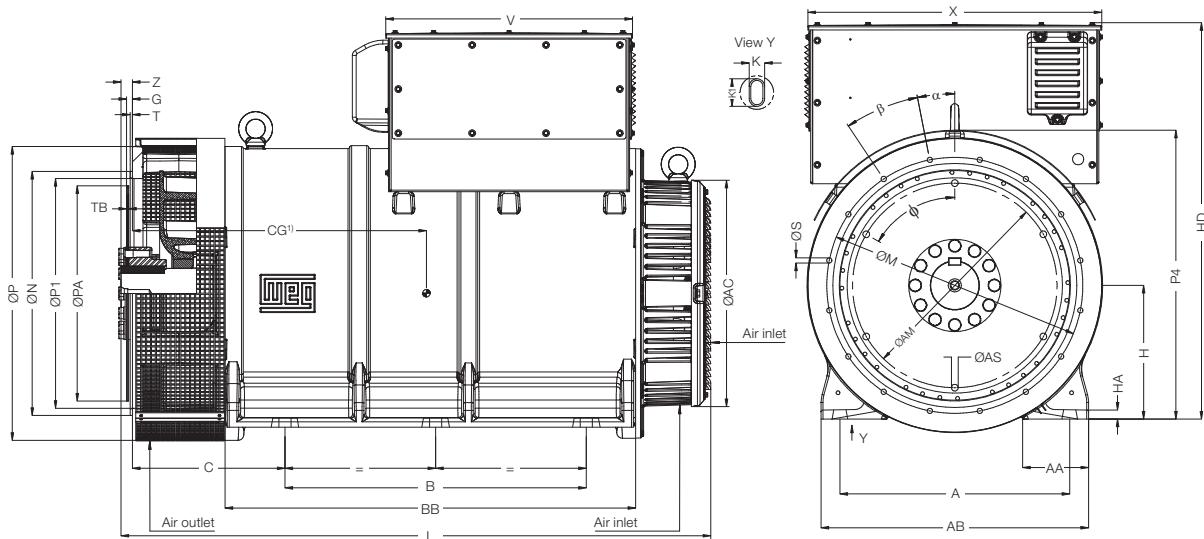
Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.



# Mechanical features

## Single bearing - B15T

### AG10 line (355 frame)



Frame	Dimensions (mm)														
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	L
355	610	800	710	1,090	175	24	32	64	355	601	655	1,052	789	405	1,550

Flange										
SAE	ØP	ØN	ØP1	ØM	T	ØS	α	β	Z	P4
0	780	647.7	610	679.5	6	14	11.25°	22.5°	30.3	767
1/2		584.2	540	619.1		12.5	15°	30°		
1		511.2	496	530.2						

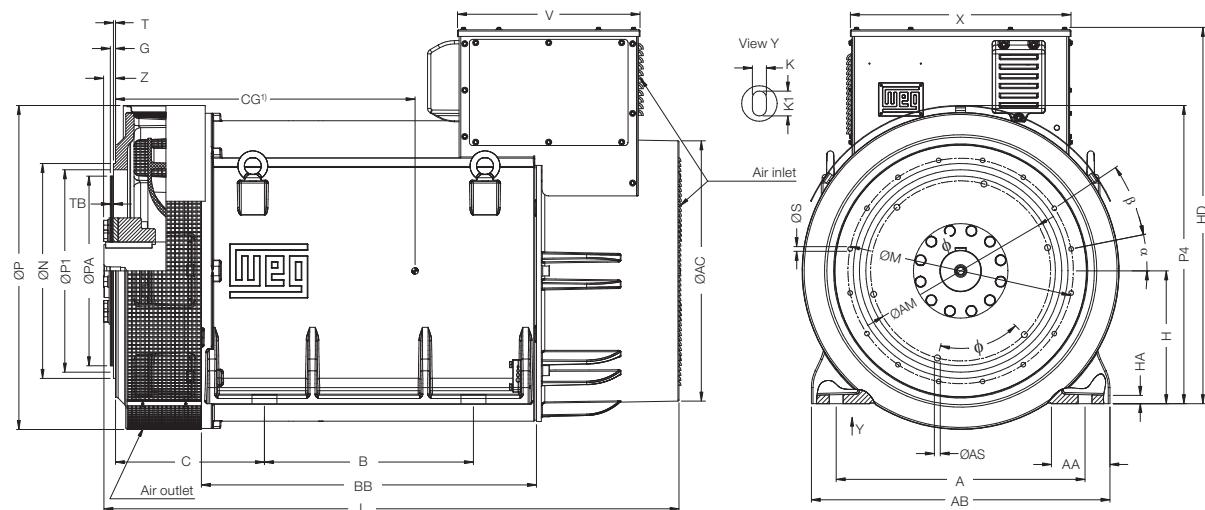
Coupling disk							
SAE	ØPA	ØAM	G	TB	ØAS	Ø	Ø
14	466.7	438.2	25.4	5.85	13.5	45°	18
18	571.5	542.9	15.7		18	60°	

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Single bearing - B15T

### AG10 line (400 frame)



Frame	Dimensions (mm)														
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	L
400	750	630	900	1,010	176	25	42	75	400	784	550	1,134	665	449	1,739

Flange										
SAE	ØP	ØN	ØP1	ØM	T	ØS	α	β	Z	P4
0	954	647.7	610	679.5	6	14	11.25°	22.5°	34.7	899
00	1000	787.4	760	851						

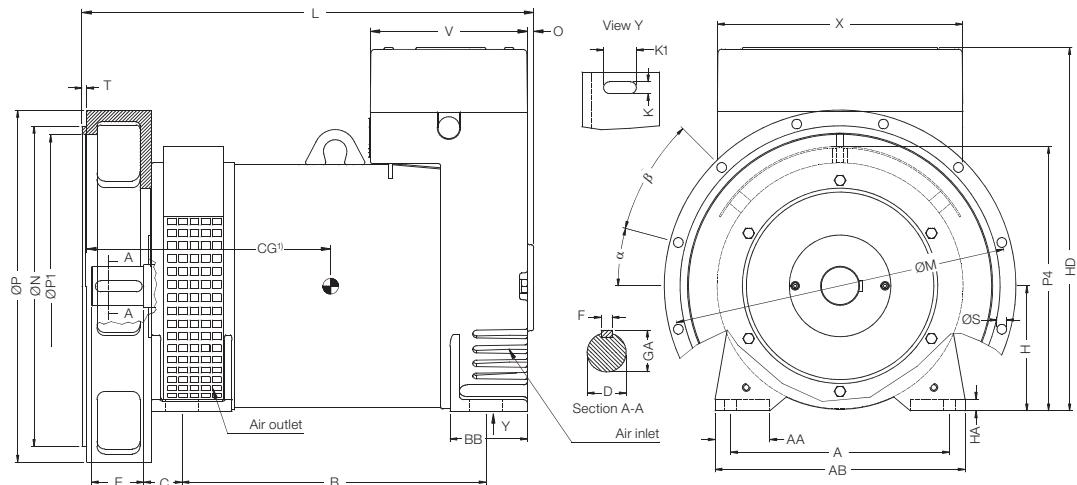
Coupling disk							
SAE	ØPA	ØAM	G	TB	ØAS	ϕ	
14	466.7	438.2	25.4	7.8	13.5	45°	
18	571.5	542.9	15.7		18	60°	
21	673.1	641.4	0			30°	

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

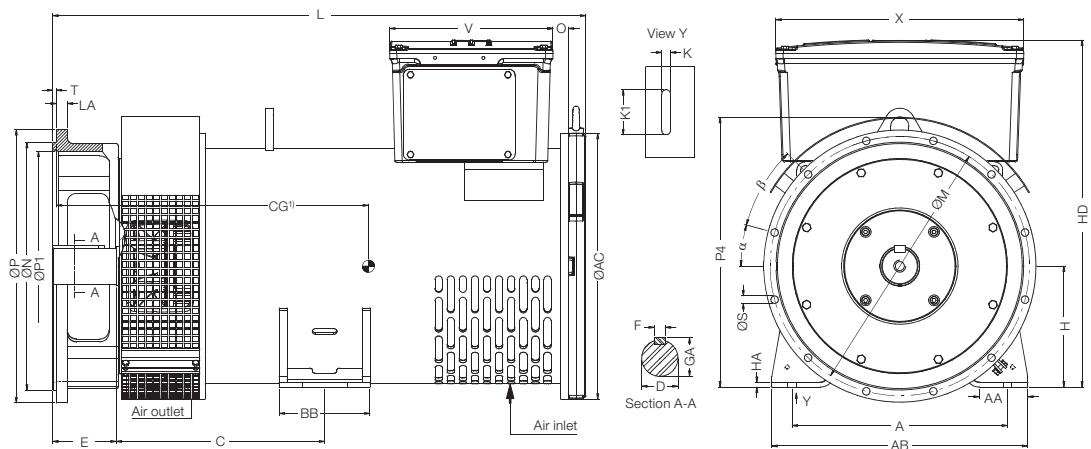
# Mechanical features

## Double bearing with flange - B35T

## G Plus line (160 frame)



## G Plus line (200 frame)



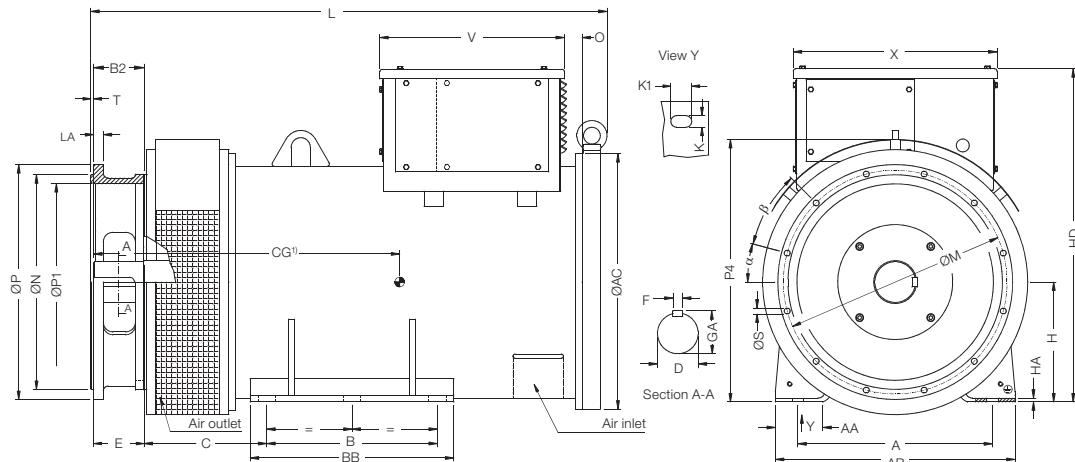
Frame	Dimensions (mm)														
	A	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	O	L
201	356	423	150	80	8	14.5	74.5	200	440	311	572	388	271.5	30	750
202													344.5		880

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Double bearing with flange - B35T

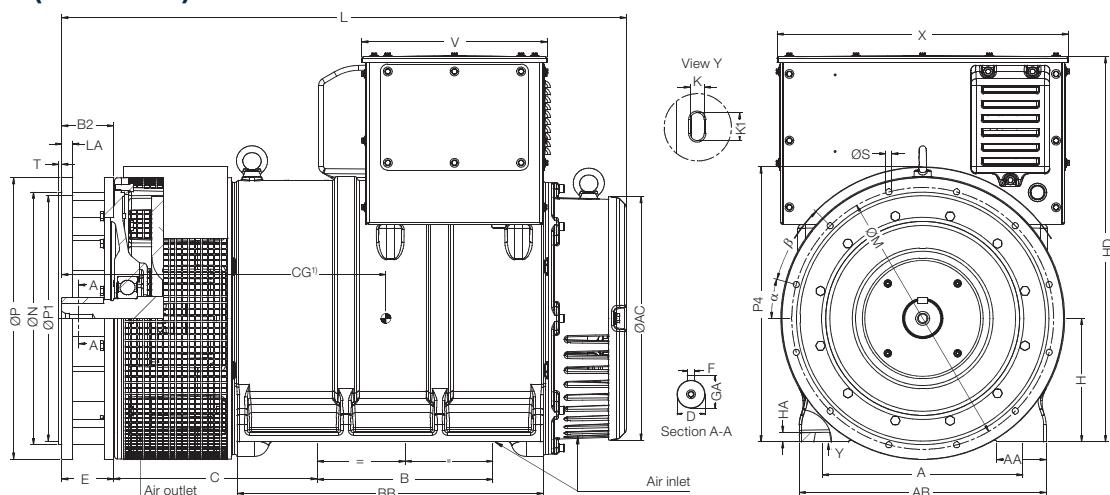
### G Plus line (250 frame)



Frame	Dimensions (mm)																	
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	B2	O	L
251	406	311	500	380	100	7.9	24	36	250	536	385	695	425	250	550	105	32.5	925

Flange										Shaft end							
SAE	ØP	ØN	ØP1	ØM	LA	T	ØS	α	β	D	GA	F	E				
3	450	409.6	390	428.6						20	6	12.5	15°	30°			
2	490	447.7	410	466.7													
1	560	511.2	470	530.2													

### AG10 line (250 frame)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	B2	L
250S	406	178		500	470	100	18	28	56	250	493	375	780	590	405	557	105
250M		356			620												979
																	1,129

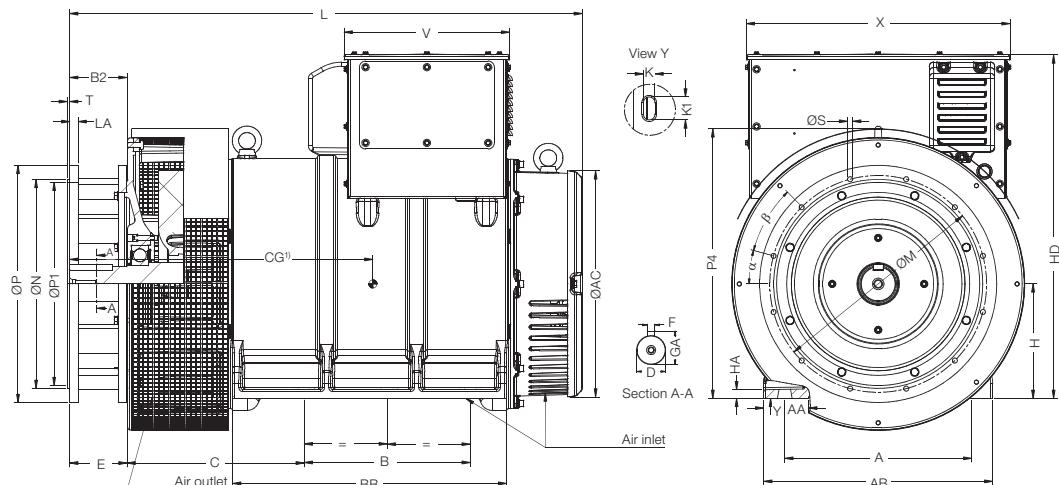
Flange										Shaft end							
SAE	ØP	ØN	ØP1	ØM	LA	T	ØS	α	β	D	GA	F	E				
3	450	409.6	390	428.6						20	6	12.5	15°	30°			
2	490	447.6	410	466.7													
1	560	511.2	470	530.2													

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Double bearing with flange - B35T

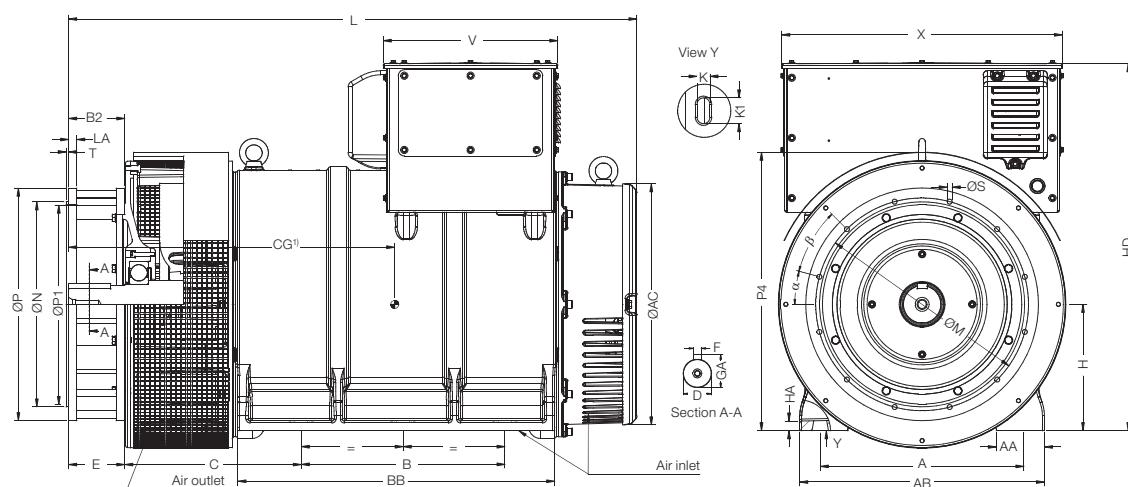
### AG10 line (280 frame)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	B2	L
280M	457	406	560	670	110	21	28	56	280	553	405	840	645	429	612	140	1,247

Flange								Shaft end								
SAE	ØP	ØN	ØP1	ØM	LA	T	ØS	α	β	D	GA	F	E			
2	540	447.6	410	466.7	20	6	12.5	15°	30°	85	90	25	140			
1	560	511.2	470	530.2			14									
1/2	676	584.2	540	619.1				11.25°	22.5°							
0	714	647.7	610	679.5												

### AG10 line (315 frame)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	B2	L
315M	508	508	610	790	120	24	32	64	315	601	435	915	700	435	694	140	1,413

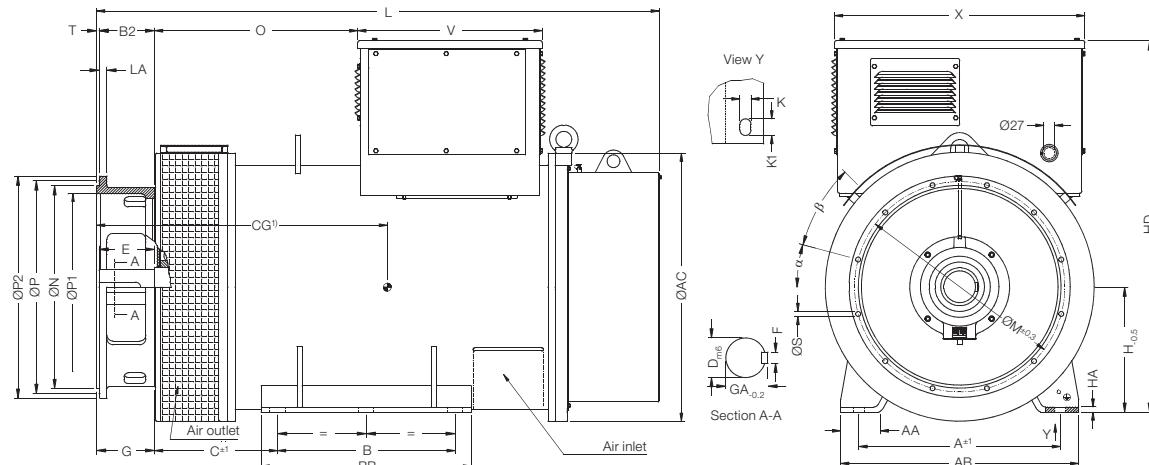
Flange								Shaft end								
SAE	ØP	ØN	ØP1	ØM	LA	T	ØS	α	β	D	GA	F	E			
2	540	447.6	410	466.7	20	6	12.5	15°	30°	95	100	25	140			
1	560	511.2	470	530.2			14									
1/2	676	584.2	540	619.1				11.25°	22.5°							
0	714	647.7	610	679.5												

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Double bearing with flange - B35T

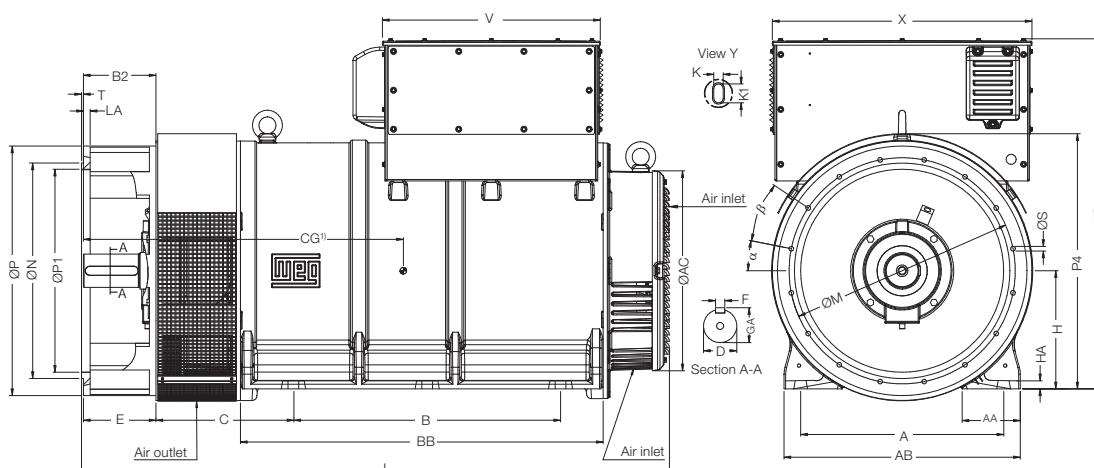
### G Plus line (355 frame)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	G	O	L
352	528	550	660	740	130	16	28	42	355	780	465	1,053	635	410	176	628	1,637

Flange										Shaft end						
SAE	ØP	ØP2	ØN	ØP1	ØM	LA	T	ØS	α	β	B2	D	GA	F	E	
1	553		780	511.2	496	530.2	28	6	12.5	15°	30°					
0	714			647.7	610	679.5			14	11.25°	22.5°	170	100	106	28	170

### AG10 line (355 Frame)



Frame	Dimensions (mm)														
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	L
355	610	800	710	1,090	175	24	32	64	355	601	655	1,052	789	461	1,745

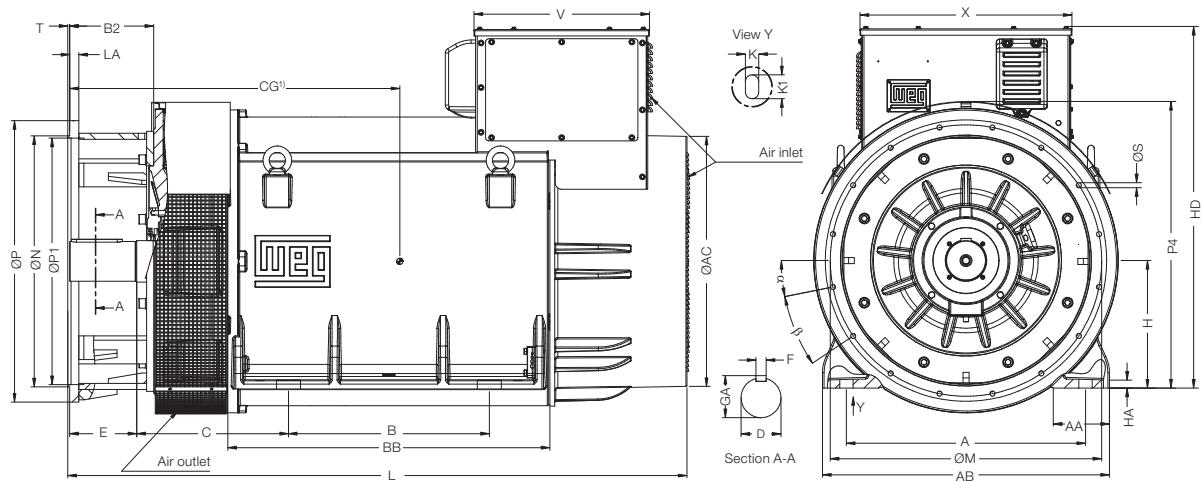
Flange										Shaft end					
SAE	ØP	ØN	ØP1	ØM	LA	T	ØS	α	β	B2	P4	D	GA	F	E
0		647.7	610	679.5	20		14	11.25°	22.5°			100	105	28	170
1	750			511.2	496	530.2	26	12.5	15°	30°	218	767			

Notes: 1) Center of gravity data available on page 22.  
Data subject to change without prior notice.

# Mechanical features

## Double bearing with flange - B35T

### AG10 line (400 frame)



Frame	Dimensions (mm)														
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	L
400	750	630	900	1,010	176	25	42	75	400	784	550	1,134	665	476	1,941

Flange										Shaft end					
SAE	ØP	ØN	ØP1	ØM	LA	T	ØS	α	β	B2	P4	D	GA	F	E
0	714	647.7	610	679.5	20.5	6	14	11.25°	22.5°	263	899	125	132	32	210
00	883	787.4	760	851	28.5		16								

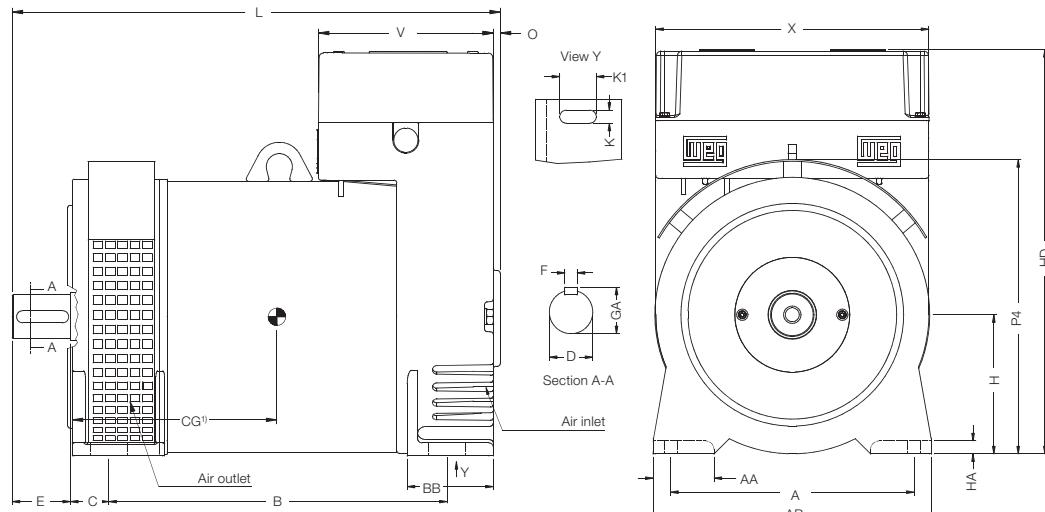
Notes: 1) Center of gravity data available on page 22.

Data subject to change without prior notice.

# Mechanical features

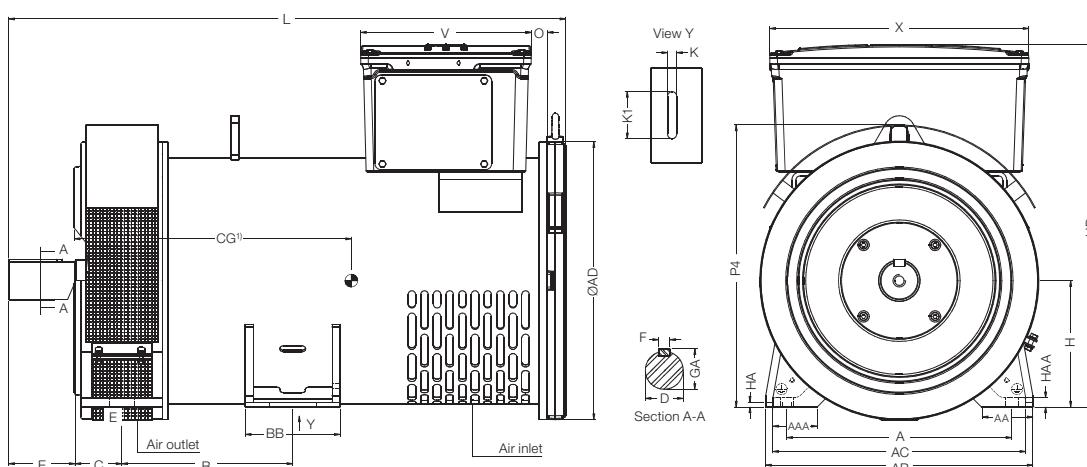
## Double bearing - B3T

### G Plus line (160 frame)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	HD	X	V	C	O	P4	L
160	280	299	320	99	70	15	15	42	160	465	314	201	49	8	340	476
161		389														566
162		469														646
Shaft end																
D	GA	F	E													
50	53.5	14	67													

### G Plus line (200 frame)



Frame	Dimensions (mm)																	
	A	B	AB	AC	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	O	P4	L
201	356	187.5	423	400	150	80	8	14.5	74.5	200	440	311	572	388	84	30	442	750
202		260.5															880	
Shaft end																		
D	GA	F	E															
60	64	18	105															

Notes: 1) Center of gravity data available on page 22.

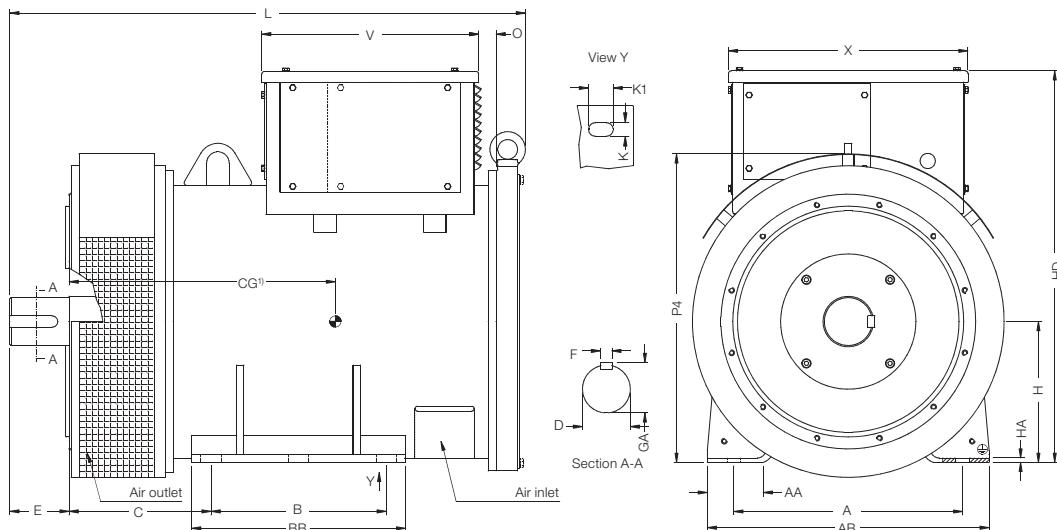
Data subject to change without prior notice.

When the alternator is driven by pulley and belt, WEG must be contacted.

# Mechanical features

## Double bearing - B3T

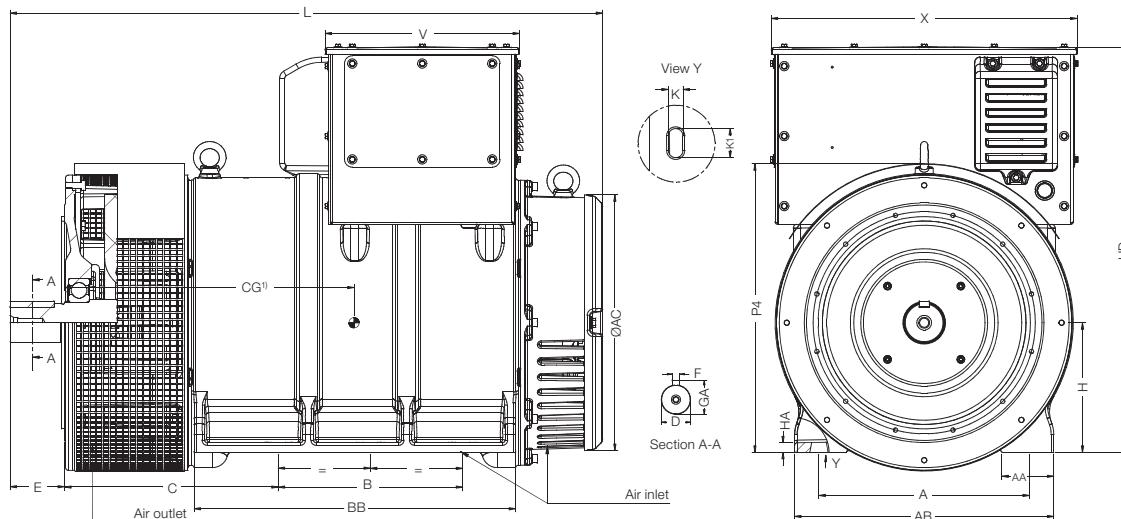
### G Plus line (250 frame)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	V	HD	X	C	O	P4	L
251	406	311	500	380	100	7.9	24	36	250	385	695	425	252	32.5	550	915

Shaft end			
D	GA	F	E
85	89.5	20	105

### AG10 line (250 frame)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	L
250S	406	178	500	470	100	18	28	56	250	493	375	780	590	405	557	979
250M		356		620												1,129

Shaft end			
D	GA	F	E
75	79.5	20	105

Notes: 1) Center of gravity data available on page 22.

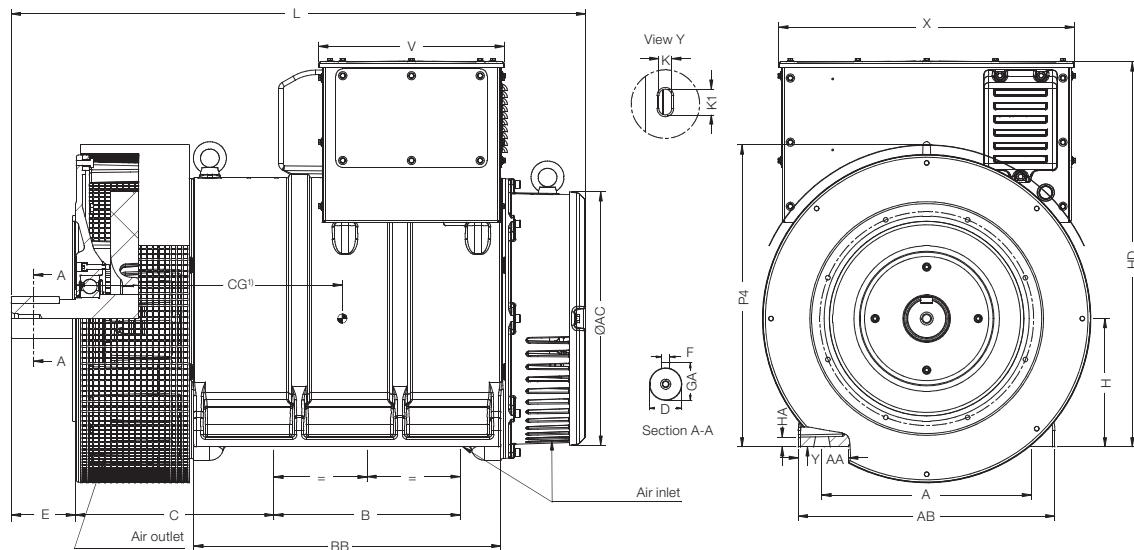
Data subject to change without prior notice.

When the alternator is driven by pulley and belt, WEG must be contacted.

# Mechanical features

## Double bearing - B3T

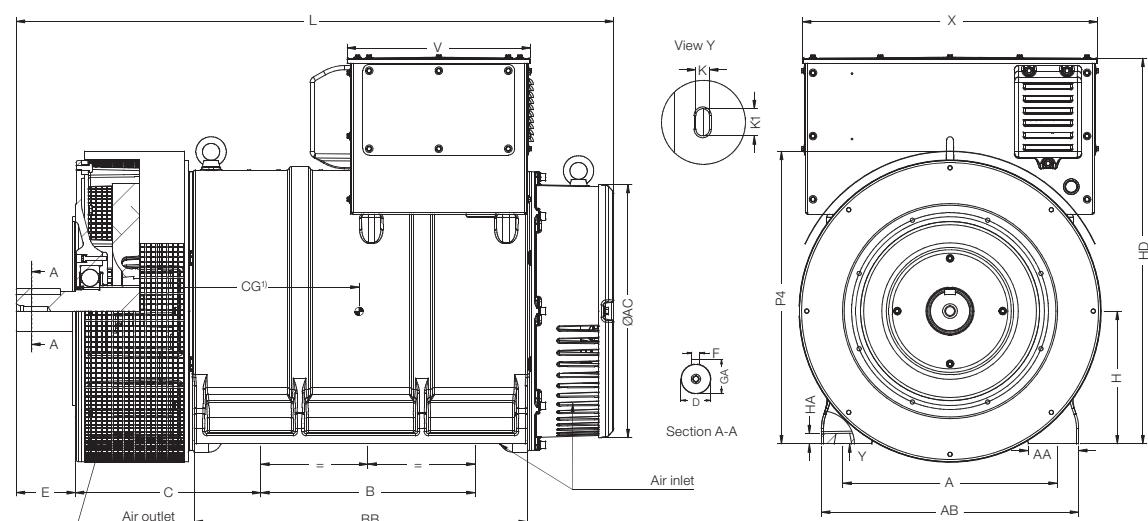
### AG10 line (280 frame)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	L
280M	457	406	560	670	110	21	28	56	280	553	405	840	645	429	612	1,247

Shaft end			
D	GA	F	E
85	90	25	140

### AG10 Line (315 Frame)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	L
315M	508	508	610	790	120	24	32	64	315	601	435	915	700	435	694	1,413

Shaft end			
D	GA	F	E
95	100	25	140

Notes: 1) Center of gravity data available on page 22.

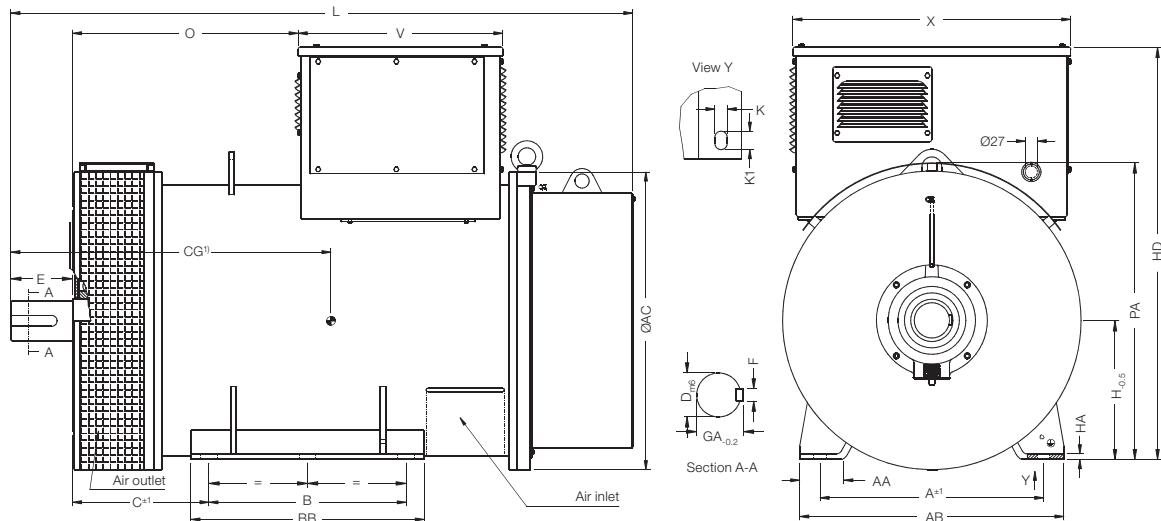
Data subject to change without prior notice.

When the alternator is driven by pulley and belt, WEG must be contacted.

# Mechanical features

## Double bearing - B3T

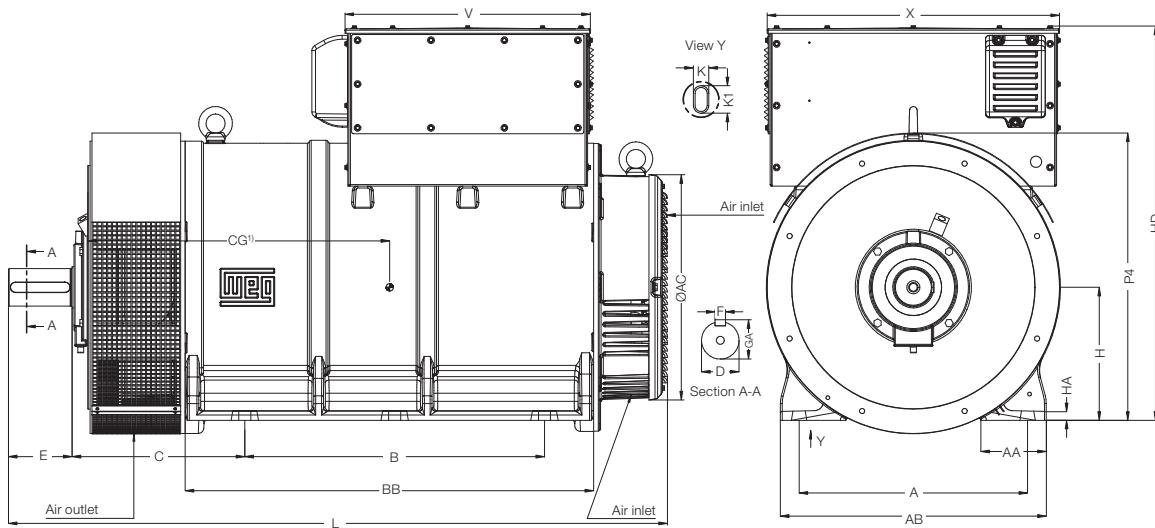
### G Plus line (355 frame)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	PA	O	L
352	528	550	660	740	130	16	24	42	355	780	465	1,053	635	410	675	628	1,637

Shaft end			
D	GA	F	E
100	106	28	170

### AG10 line (355 frame)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	L	
355	610	800	710	1,090	175	24	32	64	355	601	655	1,052	789	405	767	1,745	

Shaft end			
D	GA	F	E
100	105	28	170

Notes: 1) Center of gravity data available on page 22.

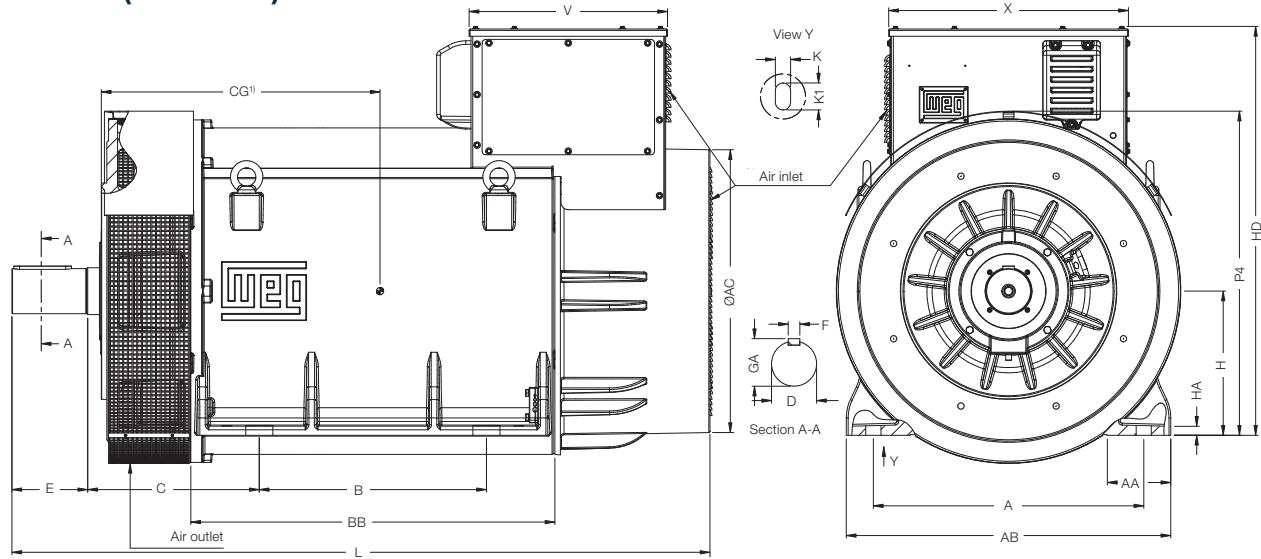
Data subject to change without prior notice.

When the alternator is driven by pulley and belt, WEG must be contacted.

# Mechanical features

## Double bearing - B3T

### AG10 line (400 frame)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	ØAC	V	HD	X	C	P4	L
400	750	630	900	1,010	176	25	42	75	400	784	550	1,134	665	476	899	1,941

Shaft end			
D	GA	F	E
125	132	32	210

Notes: 1) Center of gravity data available on page 22.

Data subject to change without prior notice.

When the alternator is driven by pulley and belt, WEG must be contacted.



## Genuine WEG parts and components

After years of operation, the alternators may need to be serviced, for this we would recommend the use of WEG genuine service parts.

WEG's team can provide immediate support for the proper component identification.

Contact: [parts\\_wm@weg.net](mailto:parts_wm@weg.net).

## Technical assistance

WEG offers technical assistance services, responsible for all after sale support. Those services include support to general questions and service on the field, including diagnostics, machine commissioning and operation 24x7. WEG's technical assistance network is present worldwide. The technical assistance offers a qualified and experienced team, able to perform in different situation on the field and give remote support, using state of the art equipment, providing reliability to the results.

## Services

WEG, offers checkup, restore and repowering services in medium and large electric machines, executed at the factory or in the field, including other brands, as follows:

- Direct current motors and generators
- Alternators
- Three-phase induction motors (squirrel cage or slip rings, low, medium and high voltage)
- Synchronous motors (with or without brushes, low, medium and high voltage)
- Turbogenerators
- Hydrogenerators



## Warranty

These products, when operated under the conditions stipulated by WEG in the operating manual for such product, are warranted against defects in workmanship and materials for twelve (12) months from start-up date or eighteen (18) months from manufacturer shipment date, whichever occurs first.

## Certifications

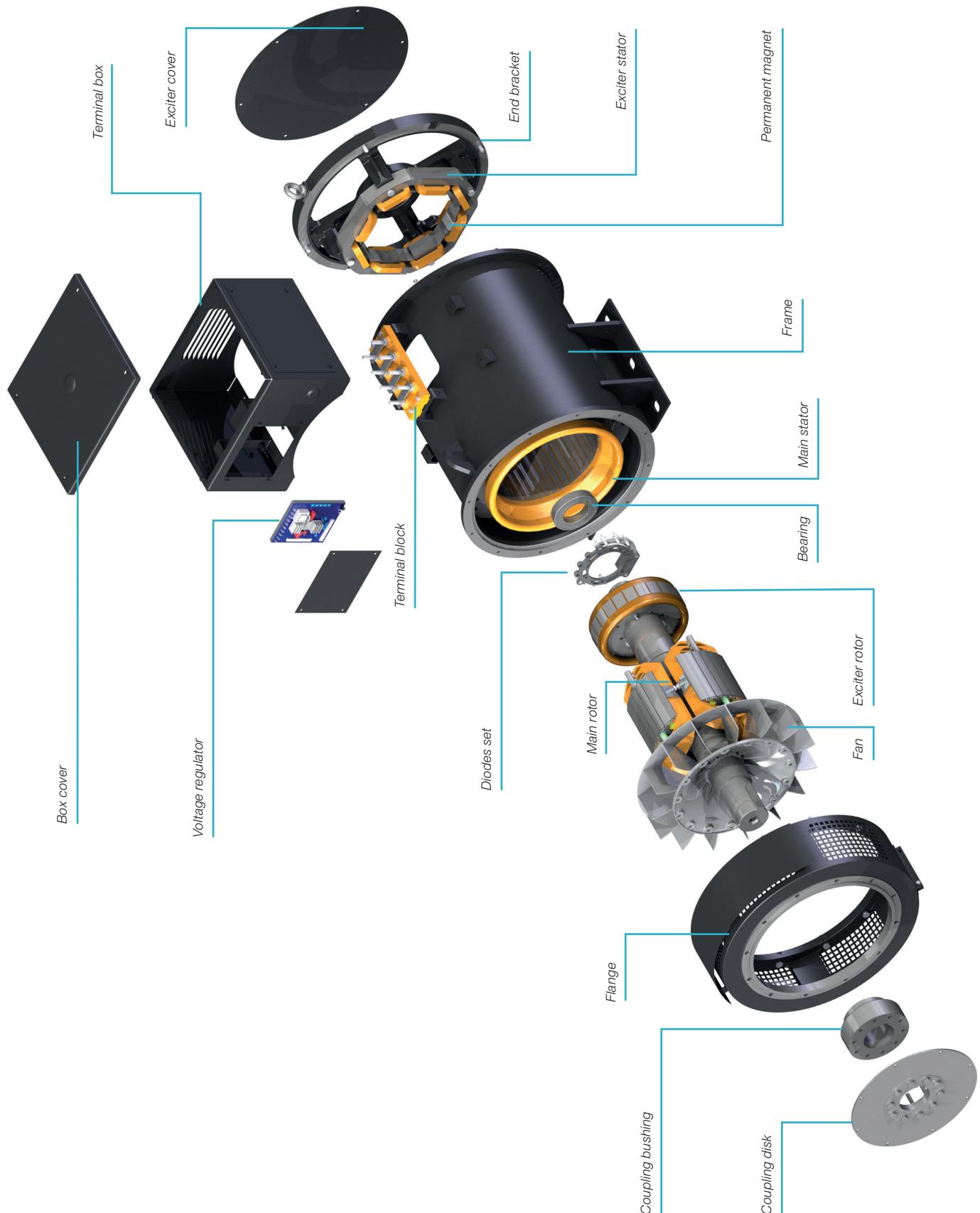
WEG's quality system is certificated as per the requirements of the standard ISO 9001 and ISO 9001/14001. The quality system is audited and certified by the Bureau Veritas Quality Institute. In order to operate in the most demanding markets, the synchronous alternators are certified by important institutions such as C.E. (European Community) and UL (Underwriters Laboratories).

In the marine version, WEG synchronous alternators can be supplied, under request, with certifications of entities like: Lloyds, Bureau Veritas, ABS, Germanischer Lloyd, DNV and others.



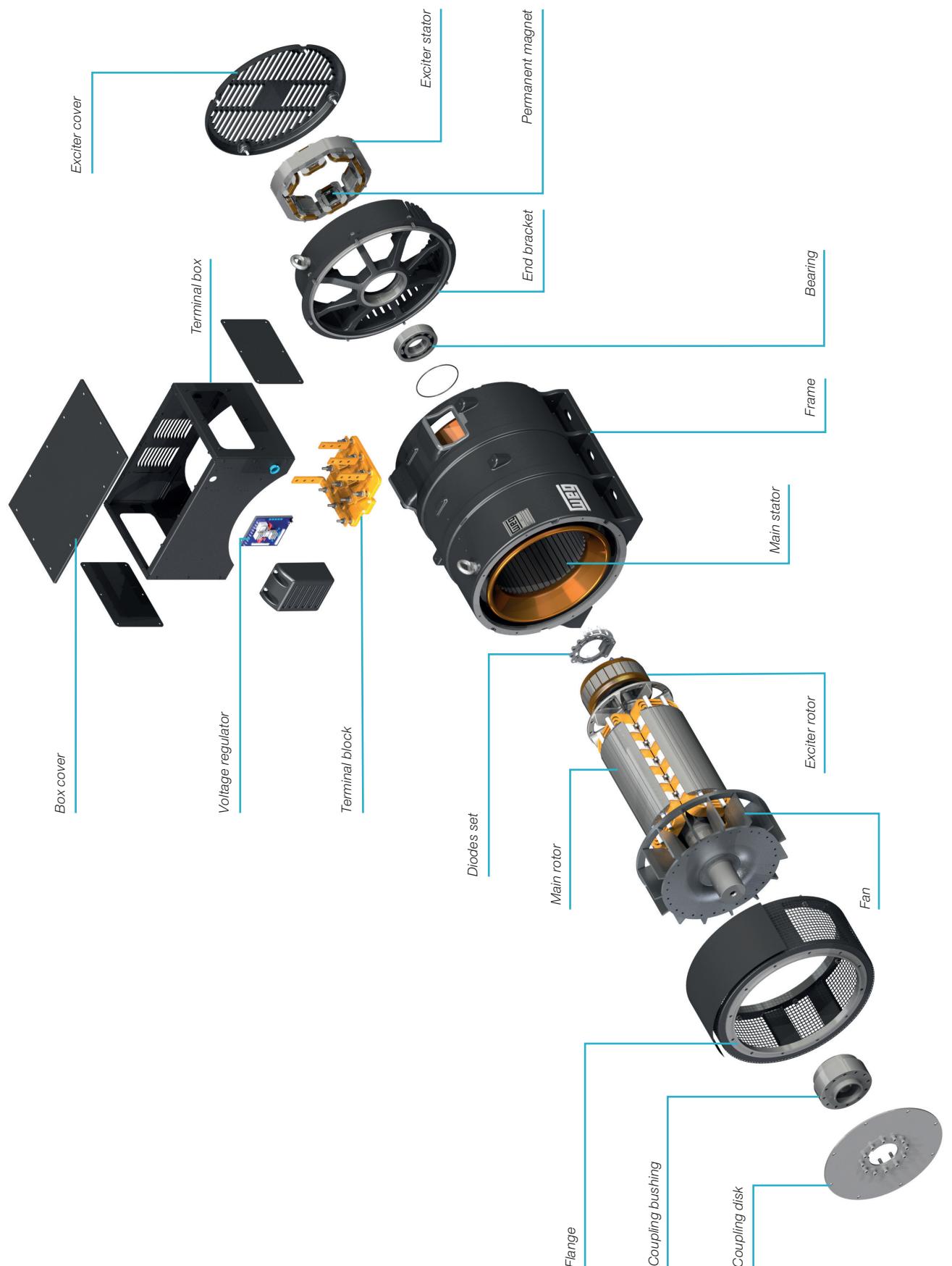
# Components G Plus line

## Exploding view drawing



# Components AG10 line

## Exploding view drawing





## Notes

The scope of WEG Group solutions  
is not limited to products and solutions  
presented in this catalogue.

**To see our portfolio, contact us.**

**For WEG's worldwide  
operations visit our website**



**www.weg.net**



+55 47 3276.4000

energia@weg.net

Jaraguá do Sul - SC - Brazil