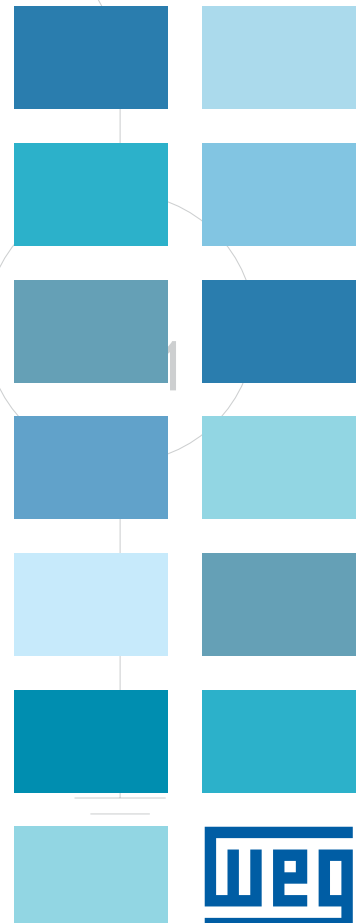


GT10 Line

Synchronous Alternators





Synchronous Alternators GT10 Line

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SYNCHRONOUS ALTERNATORS

GT10 LINE

WEG's extensive experience in design and manufacturing has resulted in a modern world class product range of brushless synchronous alternators for the global market. Available from 10 to 200 kVA, the GT10 Line is suitable for a wide range of continuous, prime and standby operation.



Applications



Industrial



Commercial and Residential



Healthcare



Irrigation



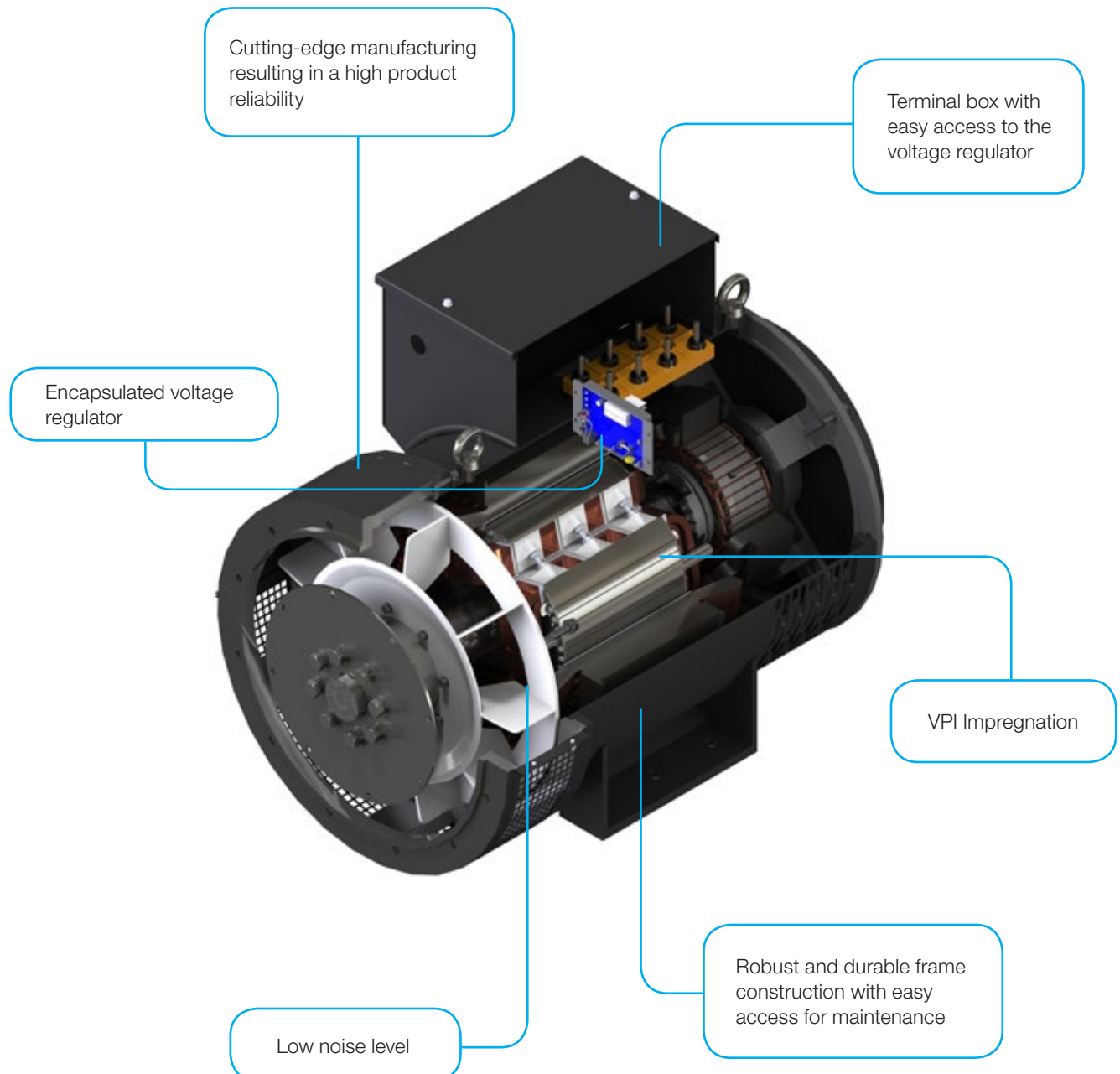
Telecommunication



Agriculture

Technical Features

- Output power: 10 to 200 kVA (others upon request)
- Frame: 160 to 250 (IEC)
- Voltage: 110 to 690 V
- Frequency: 50 to 60 Hz
- Degree of protection: IP23
- Insulation class: 180 °C (H)
- Winding pitch: 2/3
- Number of poles: 4 poles
- Leads: 12 leads



Environmental 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
K factor	1	0.96	0.93	0.90

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	0.96	0.93	0.90

Abrasive Dust

Additional winding protection is recommended when the alternator is used in environments where abrasive dust is prevalent.

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.

Insulation Class

WEG alternators have 180 °C (H) and 155 °C (F) 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.

Impregnation

Developed with the latest technology, the impregnation VPI (Vacuum Pressure Impregnation) is used by WEG ensuring perfect insulation and protection. An additional, the stator windings receive a coating for protection against humidity, dust, etc.

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.

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	Shunt		
Frame	160 - 180	225 - 250	225 - 250
Technical features ¹⁾			
Power supply	Single-phase	Single-phase	Single-phase
Sensing voltage connection	Single-phase	Single-phase	Single-phase
Operating rated current (A)	4	4	4
Peak current (max. 10s) (A)	7.5	7.5	7.5
Analog input +/- 5 V dc	-	Standard	±3 V dc
Analog input 0 up to 10 V dc	-	-	-
Digital input	-	-	-
Droop adjustment for parallel operation	-	-	1.50%
Static control	±1.5%	±1.5%	±0.5%
Adjustable dynamic response	<20ms	<20ms	<1s
Underfrequency protection (U/F)	Standard	Standard	Standard
Internal voltage adjustment	±10%	±10%	±10%
External voltage adjustment	±5%	±5%	±5%
Parallelism TC signal	-	-	0.5 A
EMI suppression	Standard	Standard	Standard

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

Design Characteristics

Standard Protection Rate

The standard degree of protection is 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, it 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;
- Output connection of the regulator in short circuit;
- Operation in low speed.

ALTERNATORS FOR GENERATOR SETS

SELECTION TOOL

Learn more at www.weg.net
Find out how easy it is to work with WEG



Nomenclature

	GT10	250	M	I	10	A	S	B15T
PRODUCT								
Alternator line								
IEC FRAME								
160 - Frame 160								
180 - Frame 180								
225 - Frame 225								
250 - Frame 250								
IEC FRAME COMPLEMENT								
S - Short frame								
M - Medium frame								
L - Large frame								
APPLICATION								
I - Industrial								
ENGINEERING CODE								
Core length								
VOLTAGE								
A - Three-phase 12 Leads - 480/240 V - 440/220 V - 380/190 V - 416/208 V (60 Hz) 400/200 V - 380/190 V (50 Hz)								
EXCITATION TYPE								
S - Brushless shunt								
MOUNTING								
B15T - Single bearing with coupling disc and flange								
B35T - Double bearing with flange								
B3T - Double bearing without flange								

12 Leads / 4 Poles

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

Line	Model	ΔT	480 V - Y / 240 V - YY					440 V - Y / 220 V - YY				
			80 °C	105 °C	125 °C	150 °C	163 °C	80 °C	105 °C	125 °C	150 °C	163 °C
GT10	160SI05AS	kVA	8.5	9.6	10.6	12.0	12.5	8.0	9.0	10.0	11.0	11.6
		kW	6.8	7.7	8.5	9.6	10.0	6.4	7.2	8.0	8.8	9.3
	160SI10AS	kVA	11.5	13.0	14.4	16.0	16.8	10.5	11.5	13.1	14.5	15.0
		kW	9.2	10.4	11.5	12.8	13.4	8.4	9.2	10.5	11.6	12.0
	160MI05AS	kVA	14.0	15.6	17.5	19.5	20.5	13.0	14.5	16.3	17.5	18.8
		kW	11.2	12.5	14.0	15.6	16.4	10.4	11.6	13.0	14.0	15.0
	160MI10AS	kVA	17.0	19.0	21.3	23.5	24.5	15.5	17.5	19.0	21.0	22.5
		kW	13.6	15.2	17.0	18.8	19.6	12.4	14.0	15.2	16.8	18.0
	180SI05AS	kVA	19.2	22.0	24.0	26.3	27.4	18.0	20.0	22.5	25.0	26.0
		kW	15.4	17.6	19.2	21.0	21.9	14.4	16.0	18.0	20.0	20.8
	180SI10AS	kVA	21.4	24.5	26.7	29.2	30.5	21.0	23.5	26.3	28.8	30.0
		kW	17.1	19.6	21.4	23.4	24.4	16.8	18.8	21.0	23.0	24.0
	180SI15AS	kVA	25.0	28.1	31.3	35.0	37.5	23.0	26.0	28.8	31.0	32.5
		kW	20.0	22.5	25.0	28.0	30.0	18.4	20.8	23.0	24.8	26.0
	180SI20AS	kVA	28.0	30.0	35.0	38.5	40.0	26.0	29.0	32.5	35.0	37.5
		kW	22.4	24.0	28.0	30.8	32.0	20.8	23.2	26.0	28.0	30.0
	180SI25AS	kVA	28.2	32.3	35.2	38.6	40.2	28.9	33.2	36.2	39.6	41.3
		kW	22.6	25.8	28.2	30.9	32.2	23.1	26.6	29.0	31.7	33.0
	180MI10AS	kVA	38.0	42.5	47.5	52.5	55.0	35.0	39.0	43.8	48.0	50.0
		kW	30.4	34.0	38.0	42.0	44.0	28.0	31.2	35.0	38.4	40.0
	180MI20AS	kVA	40.0	45.0	50.0	55.0	58.0	37.0	41.5	45.0	50.0	53.0
		kW	32.0	36.0	40.0	44.0	46.4	29.6	33.2	36.0	40.0	42.4
	180MI25AS	kVA	41.1	47.1	51.4	56.3	58.7	40.0	45.0	50.0	55.0	58.0
		kW	32.9	37.7	41.1	45.0	47.0	32.0	36.0	40.0	44.0	46.4
	225SI05AS	kVA	45.0	50.0	55.0	60.0	64.0	42.0	47.0	52.5	57.5	60.0
		kW	36.0	40.0	44.0	48.0	51.0	33.6	37.6	42.0	46.0	48.0
	225SI10AS	kVA	50.0	55.0	62.5	67.5	72.5	46.0	51.5	57.5	63.0	66.5
		kW	40.0	44.0	50.0	54.0	58.0	36.8	41.2	46.0	50.4	53.2
	225SI15AS	kVA	62.5	70.0	80.0	88.0	92.5	59.0	66.0	72.5	81.0	85.0
		kW	50.0	56.0	64.0	70.4	74.0	47.2	52.8	58.0	64.8	68.0
	225SI20AS	kVA	70.0	78.0	87.5	96.3	100.0	65.0	73.0	80.0	89.0	94.0
		kW	56.0	62.4	70.0	77.0	80.0	52.0	58.4	64.0	71.2	75.2
	225MI05AS	kVA	75.0	84.0	94.0	100.0	107.5	69.0	77.5	85.0	95.0	100.0
		kW	60.0	67.0	75.0	80.0	86.0	55.2	62.0	68.0	76.0	80.0
	225MI10AS	kVA	80.0	90.0	100.0	110.0	115.0	75.0	84.0	92.5	102.5	109.0
		kW	64.0	72.0	80.0	88.0	92.0	60.0	67.0	74.0	82.0	87.0
	225MI15AS	kVA	90.0	100.0	112.5	125.0	130.0	83.0	93.0	104.0	114.0	120.0
		kW	72.0	80.0	90.0	100.0	104.0	66.4	74.4	83.0	91.2	96.0
	250SI05AS	kVA	95	109	119	131	136	92	103	115	125	132
		kW	76	87	95	105	109	74	83	92	100	106
	250SI10AS	kVA	112	125	140	150	162	103	115	127	140	150
		kW	90	100	112	120	130	82	92	102	112	120
	250MI05AS	kVA	125	140	156	170	180	115	127	144	158	165
		kW	100	112	125	136	144	92	102	115	126	132
	250MI10AS	kVA	140	157	175	192	203	127	144	160	175	185
		kW	112	126	140	154	162	102	115	128	140	148
	250LI05AS	kVA	150	169	187	205	217	137	155	172	190	200
		kW	120	135	150	164	174	110	124	138	152	160
	250LI10AS	kVA	160	180	200	220	232	147	165	182	200	210
		kW	128	144	160	176	186	118	132	146	160	168

Notes: $\Delta T = 163\text{ °C}$, ambient temperature = 27 °C . For the other ΔT , 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, contact WEG.

12 Leads / 4 Poles

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

Line	Model	ΔT	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
GT10	160SI05AS	kVA	7.5	8.5	9.4	10.0	10.9	7.0	7.5	8.8	9.6	10.0
		kW	6.0	6.8	7.5	8.0	8.7	5.6	6.0	7.0	7.7	8.0
	160SI10AS	kVA	10.0	11.3	12.5	13.8	14.5	9.0	10.0	11.5	12.5	13.1
		kW	8.0	9.0	10.0	11.0	11.6	7.2	8.0	9.2	10.0	10.5
	160MI05AS	kVA	12.5	14.0	15.6	17.0	18.0	10.5	12.5	14.0	15.0	16.3
		kW	10.0	11.2	12.5	13.6	14.4	8.4	10.0	11.2	12.0	13.0
	160MI10AS	kVA	15.0	16.8	18.8	20.6	21.5	13.0	14.5	16.5	17.5	18.8
		kW	12.0	13.5	15.0	16.5	17.2	10.4	11.6	13.2	14.0	15.0
	180SI05AS	kVA	17.5	19.5	21.9	24.0	25.0	16.0	18.0	20.0	22.0	23.0
		kW	14.0	15.6	17.5	19.2	20.0	12.8	14.4	16.0	17.6	18.4
	180SI10AS	kVA	20.0	22.5	25.0	27.5	29.0	18.0	20.0	22.5	24.5	26.0
		kW	16.0	18.0	20.0	22.0	23.2	14.4	16.0	18.0	19.6	20.8
	180SI15AS	kVA	22.0	24.8	27.5	30.0	32.0	20.0	22.5	25.0	27.5	29.0
		kW	17.6	19.8	22.0	24.0	25.6	16.0	18.0	20.0	22.0	23.2
	180SI20AS	kVA	24.0	27.0	30.0	33.0	34.5	22.0	24.8	27.5	30.0	32.0
		kW	19.2	21.6	24.0	26.4	27.6	17.6	19.8	22.0	24.0	25.6
	180SI25AS	kVA	28.0	31.3	35.0	38.5	40.0	26.0	29.3	32.5	35.0	37.5
		kW	22.4	25.0	28.0	30.8	32.0	20.8	23.4	26.0	28.0	30.0
	180MI10AS	kVA	33.0	37.0	41.3	45.0	47.5	30.0	33.8	37.5	40.0	42.5
		kW	26.4	29.6	33.0	36.0	38.0	24.0	27.0	30.0	32.0	34.0
	180MI20AS	kVA	35.0	39.0	43.8	48.0	50.0	32.0	36.0	40.0	44.0	46.3
		kW	28.0	31.2	35.0	38.4	40.0	25.6	28.8	32.0	35.2	37.0
	180MI25AS	kVA	38.0	42.5	47.5	52.0	55.0	34.0	37.5	42.5	46.3	49.3
		kW	30.4	34.0	38.0	41.6	44.0	27.2	30.0	34.0	37.0	39.4
	225SI05AS	kVA	40.0	45.0	50.0	55.0	57.5	36.0	40.0	45.0	49.5	52.0
		kW	32.0	36.0	40.0	44.0	46.0	28.8	32.0	36.0	39.6	41.6
	225SI10AS	kVA	44.0	49.5	55.0	60.0	62.5	40.0	45.0	50.0	55.0	58.0
		kW	35.2	39.6	44.0	48.0	50.0	32.0	36.0	40.0	44.0	46.4
	225SI15AS	kVA	56.0	63.0	70.0	77.0	81.3	50.0	55.0	62.5	67.5	72.5
		kW	44.8	50.4	56.0	61.6	65.0	40.0	44.0	50.0	54.0	58.0
	225SI20AS	kVA	60.0	67.5	75.0	82.5	87.5	56.0	63.0	70.0	77.0	81.0
		kW	48.0	54.0	60.0	66.0	70.0	44.8	50.4	56.0	61.6	64.8
	225MI05AS	kVA	64.0	72.0	80.0	88.0	92.5	60.0	67.5	75.0	82.5	87.0
		kW	51.2	57.6	64.0	70.4	74.0	48.0	54.0	60.0	66.0	69.6
	225MI10AS	kVA	70.0	78.8	87.5	95.0	100.0	64.0	72.0	80.0	88.0	92.5
		kW	56.0	63.0	70.0	76.0	80.0	51.2	57.6	64.0	70.4	74.0
	225MI15AS	kVA	78.0	87.5	97.5	106.3	112.5	72.0	81.0	90.0	99.0	102.5
		kW	62.4	70.0	78.0	85.0	90.0	57.6	64.8	72.0	79.2	82.0
	250SI05AS	kVA	85	96	107	117	125	80	90	100	110	115
		kW	68	77	86	94	100	64	72	80	88	92
	250SI10AS	kVA	97	110	122	135	141	88	99	110	121	127
		kW	78	88	98	108	113	70	79	88	97	102
	250MI05AS	kVA	107	121	135	147	155	98	110	122	132	142
		kW	86	97	108	118	124	78	88	98	106	114
	250MI10AS	kVA	122	137	152	167	175	110	124	137	150	160
		kW	98	110	122	134	140	88	99	110	120	128
	250LI05AS	kVA	130	145	162	177	187	118	132	147	162	170
		kW	104	116	130	142	150	94	106	118	130	136
	250LI10AS	kVA	137	155	172	187	200	126	140	157	175	182
		kW	110	124	138	150	160	101	112	126	140	146

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

12 Leads / 4 Poles

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

Line	Model	ΔT	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
GT10	160SI05AS	kVA	7.0	7.5	8.5	9.4	10.0	6.5	7.0	8.1	9.0	9.4
		kW	5.6	6.0	6.8	7.5	8.0	5.2	5.6	6.5	7.2	7.5
	160SI10AS	kVA	9.0	10.0	11.3	12.5	13.0	8.5	9.5	10.6	11.5	12.5
		kW	7.2	8.0	9.0	10.0	10.5	6.8	7.6	8.5	9.2	10.0
	160MI05AS	kVA	11.0	12.5	13.8	15.0	16.3	10.5	11.5	13.1	14.5	15.0
		kW	8.8	10.0	11.0	12.0	13.0	8.4	9.2	10.5	11.6	12.0
	160MI10AS	kVA	13.0	14.5	16.3	18.0	19.0	12.5	14.0	15.6	17.0	18.1
		kW	10.4	11.6	13.0	14.4	15.0	10.0	11.2	12.5	13.6	14.5
	180SI05AS	kVA	15.3	17.5	19.1	20.9	21.8	15.0	16.0	18.8	20.0	22.0
		kW	12.2	14.0	15.3	16.7	17.4	12.0	12.8	15.0	16.0	17.6
	180SI10AS	kVA	16.4	18.8	20.5	22.5	23.4	17.0	19.0	21.3	22.5	25.0
		kW	13.1	15.0	16.4	18.0	18.7	13.6	15.2	17.0	18.0	20.0
	180SI15AS	kVA	18.8	21.5	23.5	25.7	26.8	19.0	21.0	23.8	26.0	27.5
		kW	15.0	17.2	18.8	20.6	21.4	15.2	16.8	19.0	20.8	22.0
	180SI20AS	kVA	22.0	25.0	27.5	30.0	31.0	21.0	23.5	26.3	29.0	30.0
		kW	17.6	20.0	22.0	24.0	25.0	16.8	18.8	21.0	23.2	24.0
	180SI25AS	kVA	21.2	24.3	26.5	29.0	30.3	21.8	27.0	27.3	29.9	31.2
		kW	17.0	19.4	21.2	23.2	24.2	17.4	21.6	21.8	23.9	25.0
	180MI10AS	kVA	30.0	34.0	37.5	41.0	43.0	29.0	32.5	36.3	40.0	42.0
		kW	24.0	27.2	30.0	33.0	34.5	23.2	26.0	29.0	32.0	33.6
	180MI20AS	kVA	32.0	36.0	40.0	44.0	46.0	30.0	34.0	38.1	42.0	44.0
		kW	25.6	28.8	32.0	35.2	36.8	24.0	27.2	30.5	33.6	35.2
	180MI25AS	kVA	31.9	36.6	39.9	43.7	45.6	31.5	36.1	39.4	43.2	45.0
		kW	25.5	29.3	31.9	35.0	36.5	25.2	28.9	31.5	34.6	36.0
	225SI05AS	kVA	36.0	40.0	45.0	50.0	52.0	34.0	38.5	43.1	47.5	50.0
		kW	28.8	32.0	36.0	40.0	41.6	27.2	30.8	34.5	38.0	40.0
	225SI10AS	kVA	40.0	45.0	50.0	56.0	58.5	37.5	42.5	47.5	52.5	55.0
		kW	32.0	36.0	40.0	44.8	46.8	30.0	34.0	38.0	42.0	44.0
	225SI15AS	kVA	50.0	55.0	62.5	69.0	72.0	47.5	54.0	60.0	65.0	70.0
		kW	40.0	44.0	50.0	55.0	57.6	38.0	43.2	48.0	52.0	56.0
	225SI20AS	kVA	56.0	62.5	70.0	77.0	80.0	54.0	60.0	67.5	74.0	77.5
		kW	44.8	50.0	56.0	62.0	64.0	43.2	48.0	54.0	59.2	62.0
	225MI05AS	kVA	60.0	67.5	75.0	83.0	87.0	57.5	65.0	72.5	80.0	84.0
		kW	48.0	54.0	60.0	66.0	69.6	46.0	52.0	58.0	64.0	67.2
	225MI10AS	kVA	64.0	72.0	80.0	87.5	91.5	60.0	67.5	75.0	82.5	87.0
		kW	51.2	57.6	64.0	70.0	73.2	48.0	54.0	60.0	66.0	69.6
	225MI15AS	kVA	70.1	80.3	87.6	96.0	100.0	68.4	77.5	85.5	93.7	97.6
		kW	56.1	64.2	70.1	76.8	80.0	54.7	62.0	68.4	75.0	78.1
	250SI05AS	kVA	71	81	89	97	101	75	85	95	105	110
		kW	57	65	71	78	81	60	68	76	84	88
	250SI10AS	kVA	87	100	109	119	124	85	95	106	117	122
		kW	70	80	87	95	99	68	76	85	94	98
	250MI05AS	kVA	100	112	125	138	144	95	107	120	132	137
		kW	80	90	100	110	115	76	86	96	106	110
	250MI10AS	kVA	112	125	140	154	160	107	120	135	147	156
		kW	90	100	112	123	128	86	96	108	118	125
	250LI05AS	kVA	120	135	150	165	172	115	130	144	157	165
		kW	96	108	120	132	138	92	104	115	126	132
	250LI10AS	kVA	128	144	160	176	184	122	137	154	170	177
		kW	102	115	128	141	147	98	110	123	136	142

Notes: $\Delta T = 163\text{ °C}$, ambient temperature = 27 °C . For the other ΔT , 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, contact WEG.

Three-Phase with Single-Phase Connection 12 Leads / 4 Poles

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

Line	Model	ΔT	60 Hz / 200 - 240 V ¹⁾					50 Hz / 190 - 240 V ¹⁾				
			80 °C	105 °C	125 °C	150 °C	163 °C	80 °C	105 °C	125 °C	150 °C	163 °C
GT10	160SI05AS	kVA	4.8	5.5	6.1	6.8	7.1	4.0	4.6	5.0	5.7	5.9
	160SI10AS	kVA	6.6	7.4	8.2	9.1	9.5	5.5	6.2	6.8	7.6	8.0
	160MI05AS	kVA	8.0	8.9	10.0	11.1	11.7	6.7	7.4	8.3	9.3	9.7
	160MI10AS	kVA	9.7	10.8	12.1	13.4	14.0	8.1	9.0	10.1	11.2	11.6
	180SI05AS	kVA	11.0	12.6	13.8	15.1	15.8	8.8	10.1	11.0	12.0	12.6
	180SI10AS	kVA	12.3	14.1	15.4	16.9	17.6	9.4	10.8	11.8	12.9	13.5
	180SI15AS	kVA	14.3	16.0	17.8	20.0	21.4	10.9	12.5	13.6	14.9	15.5
	180SI20AS	kVA	16.0	17.1	20.0	21.9	22.8	13.3	14.3	16.6	18.3	19.0
	180SI25AS	kVA	16.2	18.6	20.3	22.2	23.2	12.2	14.0	15.3	16.8	17.5
	180MI10AS	kVA	21.7	24.2	27.1	29.9	31.4	18.1	20.2	22.6	24.9	26.1
	180MI20AS	kVA	22.8	25.7	28.5	31.4	33.1	19.0	21.4	23.8	26.1	27.6
	180MI25AS	kVA	23.8	27.1	29.7	32.5	33.9	18.4	21.1	23.0	25.2	26.3
	225SI05AS	kVA	25.7	28.5	31.4	34.2	36.3	21.4	23.8	26.1	28.5	30.3
	225SI10AS	kVA	28.5	31.4	35.6	38.5	41.3	23.8	26.1	29.7	32.1	34.4
	225SI15AS	kVA	35.6	39.9	45.6	50.2	52.7	29.7	33.3	38.0	41.8	43.9
	225SI20AS	kVA	39.9	44.5	49.9	54.9	57.0	33.3	37.1	41.6	45.7	47.5
	225MI05AS	kVA	42.8	47.7	53.4	57.0	61.3	35.6	39.8	44.5	47.5	51.1
	225MI10AS	kVA	45.6	51.3	57.0	62.7	65.6	38.0	42.8	47.5	52.3	54.6
	225MI15AS	kVA	51.3	57.0	64.1	71.3	74.1	40.4	46.3	50.5	55.3	57.7
	250SI05AS	kVA	54	62	68	74	78	41	47	51	56	58
	250SI10AS	kVA	64	71	80	85	93	50	58	63	69	72
	250MI05AS	kVA	71	80	89	97	103	59	66	74	81	85
	250MI10AS	kVA	80	90	100	110	115	66	75	83	91	96
	250LI05AS	kVA	85	96	107	117	124	71	80	89	97	103
	250LI10AS	kVA	91	103	114	125	133	76	85	95	104	110

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

$\Delta T = 163\text{ °C}$, ambient temperature = 27 °C . For the other ΔT , 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, contact WEG.



Performance Data

0.8 P.F. / Insulation Class H (180 °C) / 12 Leads

Line	Model	50 Hz					60 Hz					Inertia ¹⁾ J (kgm ²)	Weight ²⁾ (kg)
		Xd' (%)	Xd'' (%)	Efficiency (%) for 200/400 V			Xd' (%)	Xd'' (%)	Efficiency (%) for 240/480 V				
		Full load	Full load				Full load	Full load					
		200/400 V	200/400 V	% loads			240/480 V	240/480 V	% loads				
				50	75	100			50	75	100		
GT10	160SI05AS	18.90	12.03	76.50	77.80	76.30	15.63	10.07	77.20	78.50	77.00	0.148	90
	160SI10AS	22.13	10.58	79.70	81.00	79.50	20.62	10.62	80.00	81.30	79.80	0.159	97
	160MI05AS	21.28	12.35	81.30	82.30	80.80	18.16	13.76	81.80	82.80	81.30	0.174	105
	160MI10AS	18.33	9.13	82.30	83.30	81.80	21.02	10.47	82.60	83.60	82.10	0.187	112
	180S05AS	20.17	13.43	83.20	84.00	82.60	20.16	11.18	83.20	83.90	82.50	0.236	133
	180S10AS	17.01	12.48	79.90	81.40	80.90	20.84	12.31	82.90	84.50	83.40	0.249	138
	180SI15AS	21.58	13.89	81.30	82.90	82.40	18.77	12.08	83.40	85.00	84.50	0.259	140
	180SI20AS	15.52	9.73	83.40	85.00	84.50	16.14	10.83	84.30	85.90	85.40	0.275	150
	180SI25AS	24.61	17.21	82.20	83.70	83.20	26.58	14.70	82.60	84.20	83.70	0.294	155
	180MI10AS	11.91	8.93	84.90	86.50	86.00	12.67	9.02	85.80	87.40	86.90	0.336	162
	180MI20AS	15.32	10.38	84.90	86.50	86.00	14.48	10.81	85.90	87.50	87.00	0.352	200
	180MI25AS	23.44	15.83	86.20	87.80	87.30	21.14	13.76	87.10	88.70	88.20	0.368	205
	225SI05AS	18.21	11.27	86.00	87.10	85.90	16.38	11.51	86.80	87.90	86.70	1.014	234
	225SI10AS	20.55	13.78	81.10	81.60	81.20	22.28	14.89	86.60	87.20	86.80	1.026	240
	225SI15AS	18.51	11.46	85.80	86.50	86.00	19.26	12.52	86.80	87.60	87.00	1.119	258
	225SI20AS	17.66	11.29	86.10	86.60	86.20	22.29	12.18	87.60	87.20	87.60	1.176	270
	225MI05AS	20.85	11.24	87.90	88.50	88.00	21.04	12.39	89.70	90.30	89.80	1.229	290
	225MI10AS	18.48	10.43	85.90	86.50	86.00	16.21	10.63	86.80	87.40	86.90	1.261	300
	225MI15AS	15.26	9.21	89.10	89.70	89.10	20.37	10.38	90.10	90.70	90.10	1.345	312
	250SI05AS	14.50	7.55	88.80	89.40	88.80	16.83	8.69	90.50	91.00	90.50	1.432	352
	250SI10AS	14.61	10.02	90.30	90.90	90.30	16.05	8.88	91.20	91.80	91.20	1.545	365
	250MI05AS	15.02	7.90	89.60	90.30	89.80	15.30	8.52	91.30	91.90	91.40	1.720	415
	250MI10AS	14.61	10.02	91.00	91.60	91.10	16.05	8.88	91.90	92.50	92.00	1.879	450
	250LI05AS	13.62	6.32	91.30	91.90	91.40	13.32	6.96	92.10	92.70	92.20	1.997	475
	250LI10AS	17.07	7.99	91.40	92.00	91.50	20.75	11.58	92.20	92.80	92.30	2.075	490

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.

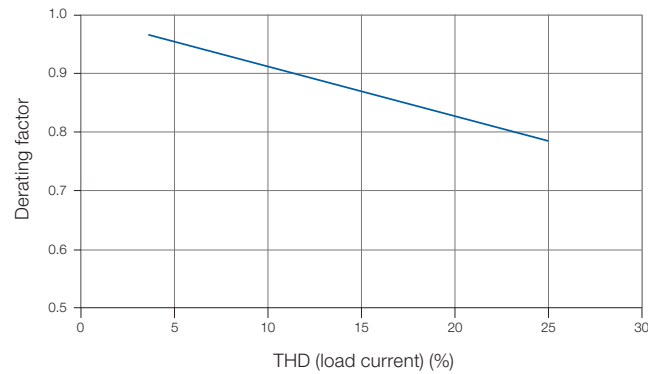
Altitude 1,000 meters above sea level (for all duties).

Data subject to change without prior notice.

For other alternator models, 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:

$$X2 = X1 \times (S2/S1) \times (f2/f1) \times (V1/V2)^2$$

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



Grounding Coil Calculation

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

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 $0.4 \times I_n$.

Additional Formulas

Alternator Rated Current

$$A = \frac{kVA \times 1,000}{(V \times \sqrt{3})}$$

Where:

A = Amps

V = Voltage

kVA = Alternator rated apparent power

Alternator Driving Power

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

Where:

CV = Alternator driving machine power

kVA = Alternator rated apparent power

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

η = 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)

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

Where:

P_{kVA} = Alternator rated apparent power

P_{kW} = Alternator rated active power

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

Pulley and Belt Drive Data

Diameter of drive pulley (Dm)				mm
Diameter of driven pulley (Da)				mm
Pulley width (L)				mm
Distance between belt center to shaft shoulder (x)				mm
Distance between centers (DC)				mm
Which of the figures do correspond to application	1 ☐	2 ☐	3 ☐	
What is value of the angle (beta)				~ deg
Belt type				
Number of belts				

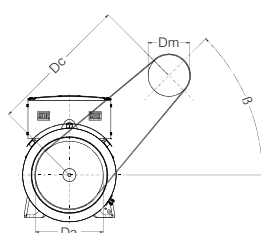
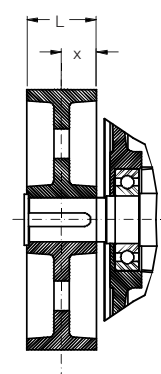


Figure 1

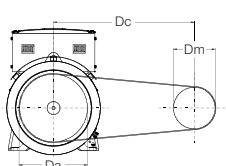


Figure 2

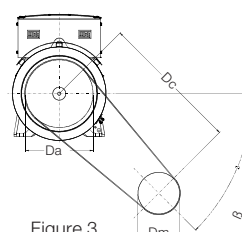
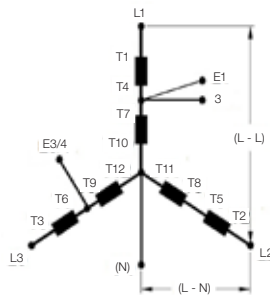


Figure 3

Wiring Diagrams

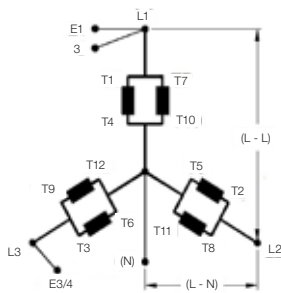
Three-Phase Alternators - 12 Leads



Star Series

Voltage (V) - 60 Hz		
L - L	380 - 415	440 - 480
L - N	220 - 240	254 - 277
E1 - E3/4	190 - 207	220 - 240

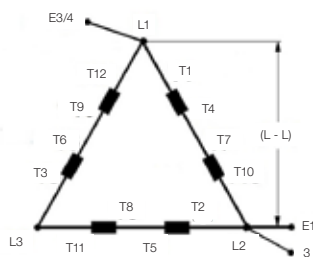
Voltage (V) - 50 Hz		
L - L	380 - 400	
L - N	220 - 230	
E1 - E3/4	190 - 200	



Star Parallel

Voltage (V) - 60 Hz		
L - L	190 - 208	220 - 240
L - N	110 - 120	127 - 139
E1 - E3/4	190 - 208	220 - 240

Voltage (V) - 50 Hz		
L - L	190 - 200	
L - N	110 - 115	
E1 - E3/4	190 - 200	



Delta Series

Voltage (V) - 60 Hz		
L - L	220 - 240	
L - N	-	
E1 - E3/4	220 - 240	

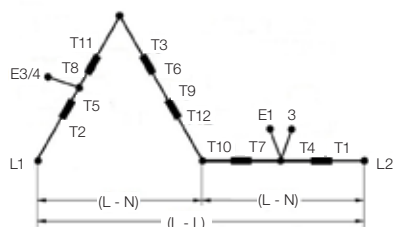
Voltage (V) - 50 Hz		
L - L	200 - 220	
L - N	-	
E1 - E3/4	200 - 220	

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

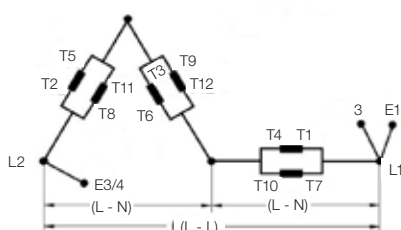
Three-Phase Alternators with Single-Phase Connection



Single-Phase Zigzag Series

Voltage (V) - 60 Hz	
L - L	480
L - N	240
E1 - E3/4	316

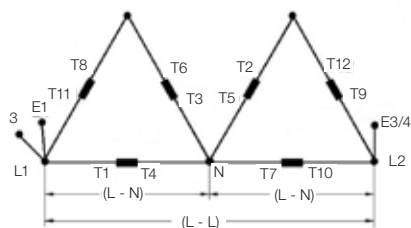
Voltage (V) - 50 Hz	
L - L	380 - 400
L - N	190 - 200
E1 - E3/4	250 - 263



Single-Phase Zigzag Parallel

Voltage (V) - 60 Hz	
L - L	200 - 240
L - N	100 - 120
E1 - E3/4	200 - 240

Voltage (V) - 50 Hz	
L - L	190 - 240
L - N	95 - 120
E1 - E3/4	190 - 240

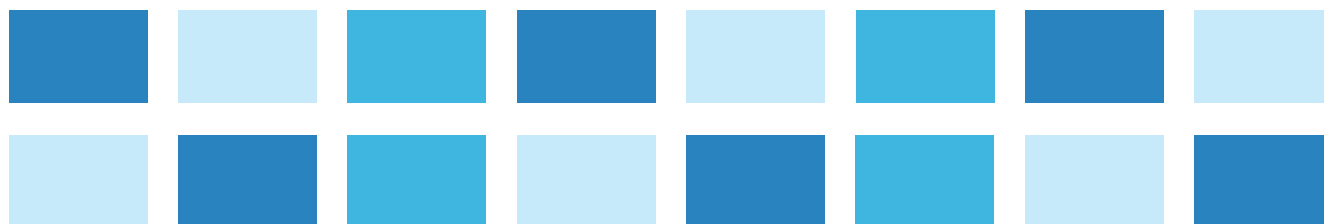


Single-Phase Delta

Voltage (V) - 60 Hz	
L - L	220 - 240
L - N	110 - 120
E1 - E3/4	220 - 240

Voltage (V) - 50 Hz	
L - L	190 - 240
L - N	95 - 120
E1 - E3/4	190 - 240

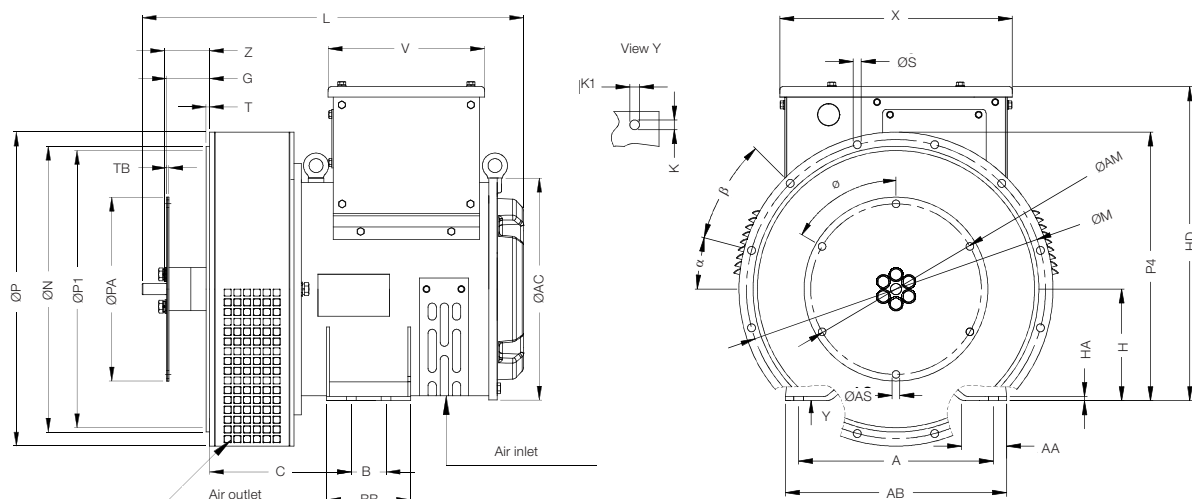
Notes: According to standards: IEC 60034-1 - NBR 5117 - NEMA MG1 - VDE 530 - ISO 8528 - CSA C22.2 No. 100-04.
Data subject to change without prior notice.



Coupling Combinations and Dimensions

Single Bearing - B15T

GT10 Line (Frame 160)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	Z	L
160S	279	50	317	120	70	7	14	14	160	450	318	333	224	203	64.7	515
160M																550

Flange									
SAE	ØP	P4	ØN	ØP1	ØM	T	ØS	α	β
5	360	340	314.3	300.5	333.4	5	11.5	22.5°	45°
4	400	360	361.9	348	381			15°	30°
3	450	385	409.6	397	428.6				

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

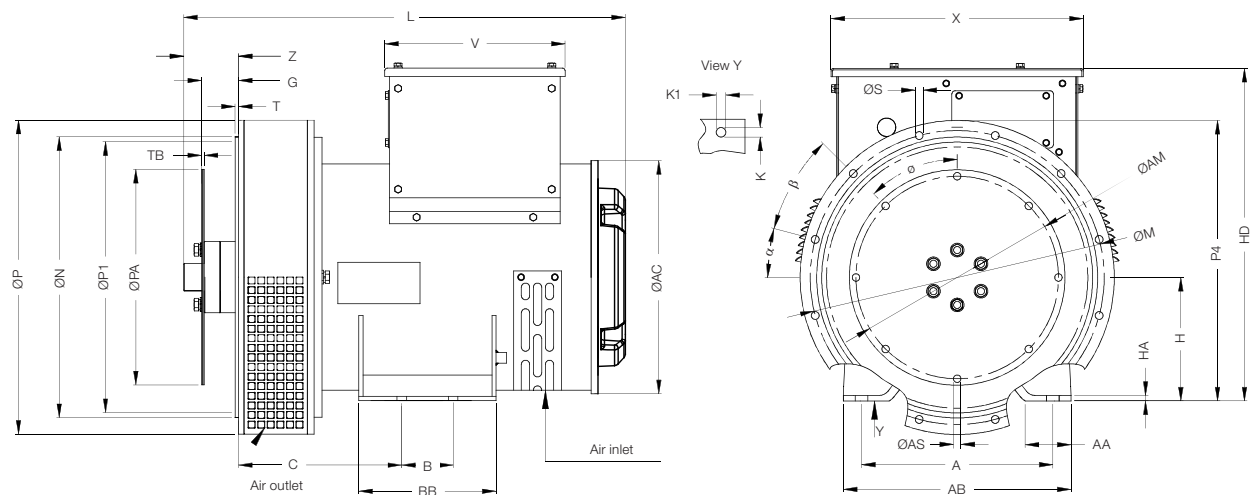
Coupling disc							
SAE	ØPA	ØAM	G	TB	ØAS	Ø	Holes
6.5	215.8	200	30.2	3.6	8.7	60°	6
7.5	241.2	222.2				45°	8
8	263.4	244.5	61.9		11	60°	6
10	314.2	295.3	53.9			45°	8
11.5	352.3	333.4	39.6				

Note: data subject to change without prior notice.

Coupling Combinations and Dimensions

Single Bearing - B15T

GT10 Line (Frame 180)



Frame	Dimensions (mm)													
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C
180S	279	75	332	200	66.8	8	14	14	180	485	340	368	263	238
180M														

Frame	Dimensions (mm)					
	Z (SAE 6.5/7.5/10/11.5)	Z (SAE 8)	Z (SAE 14)	L (SAE 6.5/7.5/10/11.5)	L (SAE 8)	L (SAE 14)
180S	56.1	63.9	-	620	628	-
180M			51.1	682	690	677

Flange									
SAE	ØP	P4	ØN	ØP1	ØM	T	ØS	α	β
5	408	384	314.3	300	333.4	5	11.5	22.5°	45°
4			361.9	348	381			15°	30°
3	458	409	409.6	395	428.6				
2	491	426	447.7	433.7	466.7				
1	559	460	511.2	496	530.2				

Connectings					
Disk	Flange				
SAE	1	2	3	4	5
6.5					•
7.5			•	•	•
8			•	•	•
10		•	•	•	
11.5	•	•	•		
14	•				

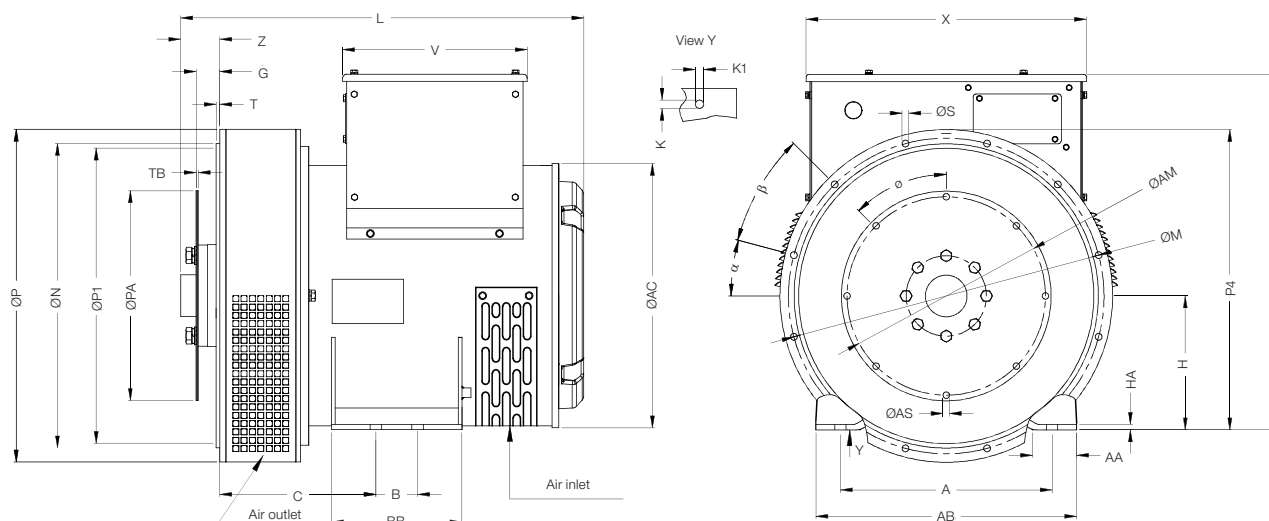
Coupling disc							
SAE	ØPA	ØAM	G	TB	ØAS	Ø	Holes
6.5	215.8	200	30.2	3.6	8.7	60°	6
7.5	241.2	222.2				45°	8
8	263.4	244.5	61.9		11	60°	6
10	314.2	295.3	53.9			45°	8
11.5	352.3	333.4	39.6				
14	466.7	438.2	25.4		13.5		

Note: data subject to change without prior notice.

Coupling Combinations and Dimensions

Single Bearing - B15T

GT10 Line (Frame 225)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	Z	Z (SAE 8)	L
225S	356	70	438	219	74	9	19	19	225	642	444	471	310	262.5	56.1	64.1	668
225M																	701
																	709

Flange									
SAE	øP	P4	øN	øP1	øM	T	øS	α	β
5	502	476	314.3	300	333.4	6	11.5	22.5°	45°
4			361.9	348	381			15°	30°
3			409.6	396	428.6				
2			447.7	432	466.7				
1	559	505	511.2	496	530.2				

Connectings					
Disk	Flange				
SAE	1	2	3	4	5
6.5					•
7.5			•	•	•
8			•	•	•
10		•	•	•	
11.5	•	•	•		
14	•				

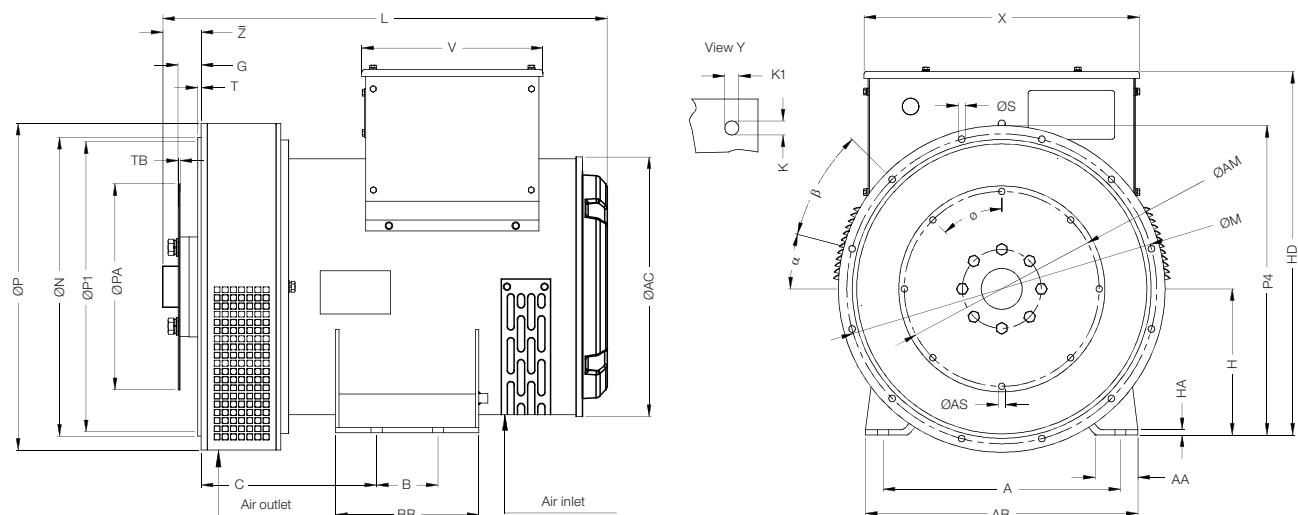
Coupling disc							
SAE	øPA	øAM	G	TB	øAS	ø	Holes
6.5	215.8	200	30.2	3.6	8.7	60°	6
7.5	241.2	222.2				45°	8
8	263.4	244.5	61.9		11	60°	6
10	314.2	295.3	53.9			45°	8
11.5	352.3	333.4	39.6				
14	466.6	438.2	25.4		13.5		

Note: data subject to change without prior notice.

Coupling Combinations and Dimensions

Single Bearing - B15T

GT10 Line (Frame 250)



Frame	Dimensions (mm)																	
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	Z	Z (SAE 8)	L	L (SAE 8)
250S	406	105	466	245	73.4	9	19	19	250	667	444	471	310	300	56.1	64.1	751	759
250M		210		310													868	876
250L																	901	909

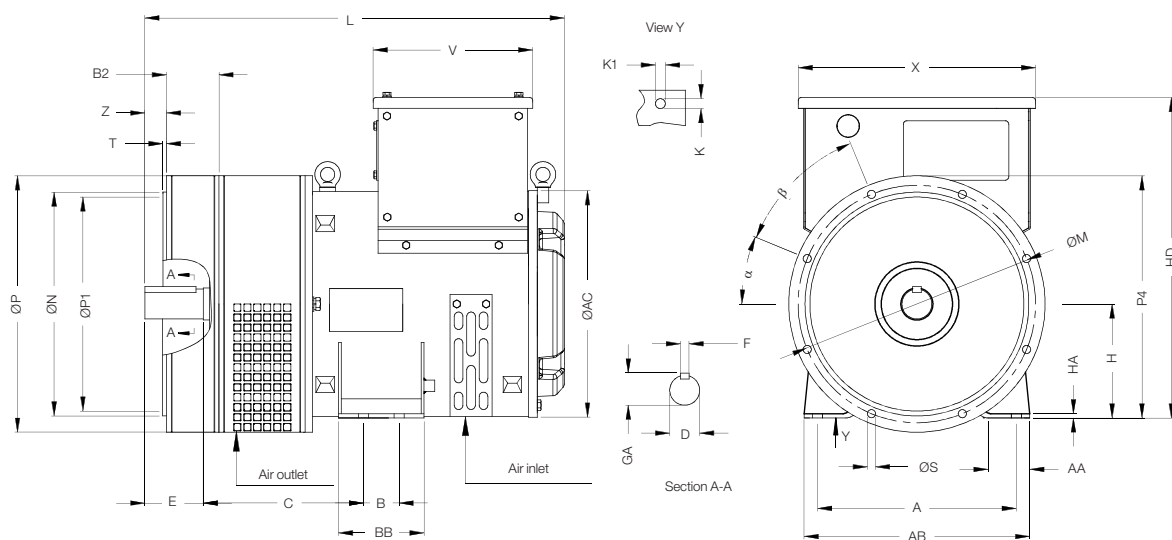
Flange									
SAE	ØP	P4	ØN	ØP1	ØM	T	ØS	α	β
5	502	501	314.3	300	333.4	6	11.5	22.5°	45°
4			361.9	348	381			15°	30°
3			409.6	396	428.6				
2			447.7	432	466.7				
1	559	530	511.2	496	530.2				

Connectings					
Disk	Flange				
SAE	1	2	3	4	5
6.5					•
7.5			•	•	•
8			•	•	•
10		•	•	•	
11.5	•	•	•		
14	•				

Coupling disc							
SAE	ØPA	ØAM	G	TB	ØAS	Ø	Holes
6.5	215.8	200	30.2	3.6	8.7	60°	6
7.5	241.2	222.2				45°	8
8	263.4	244.5	61.9		11	60°	6
10	314.2	295.3	53.9			45°	8
11.5	352.3	333.4	39.6				
14	466.7	438.2	25.4		13.5		

Note: data subject to change without prior notice.

GT10 Line (Frame 160)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	Z	B2	L
160S	279	50	317	120	70	7	14	14	160	450	318	333	224	225	30.2	73.8	554
160M																	589

Flange									
SAE	ØP	P4	ØN	ØP1	ØM	T	ØS	α	β
5	360	340	314.3	300.5	333.4	5	11.5	22.5°	45°
4	400	360	361.9	348	381			15°	30°
3	450	385	409.6	397	428.6				

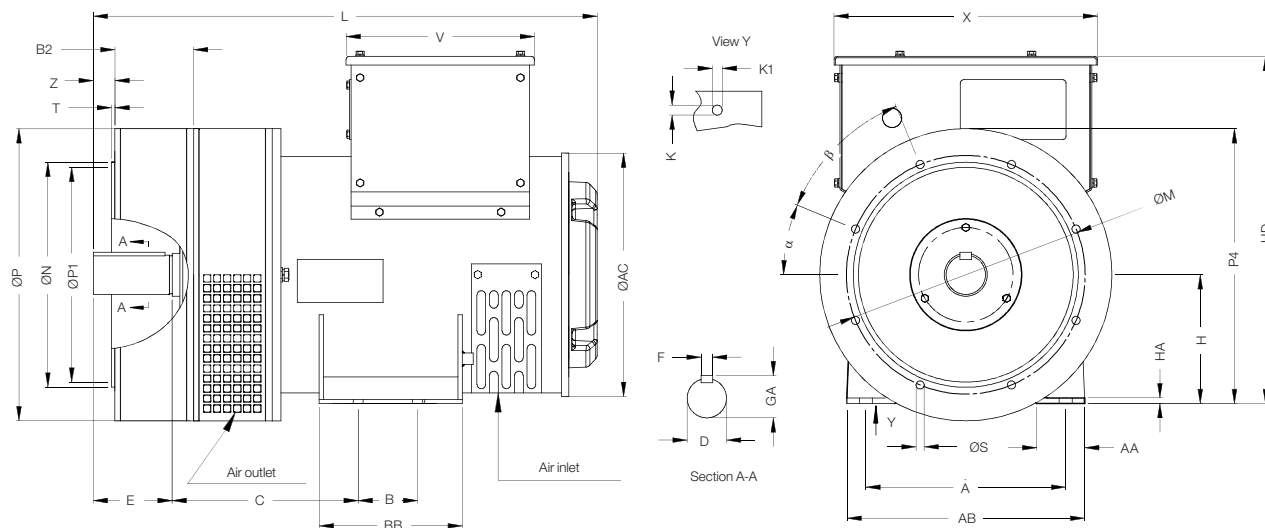
Shaft end			
D	GA	F	E
42	45.3	12	82

Note: data subject to change without prior notice.

Coupling Combinations and Dimensions

Double Bearing with Flange - B35T

GT10 Line (Frame 180)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	Z	B2	L
180S	279	75	332	200	66.8	8	14	14	180	485	340	368	263	268	30.2	109.8	704
180M																	766

Flange									
SAE	ØP	P4	ØN	ØP1	ØM	T	ØS	α	β
5	408	384	314.3	300	333.4	5	11.5	22.5°	45°
4			361.9	348	381			15°	30°
3	458	409	409.6	395	428.6				
2	491	426	447.7	433.7	466.7				
1	559	460	511.2	496	530.2				

Shaft end			
D	GA	F	E
55	59	16	110

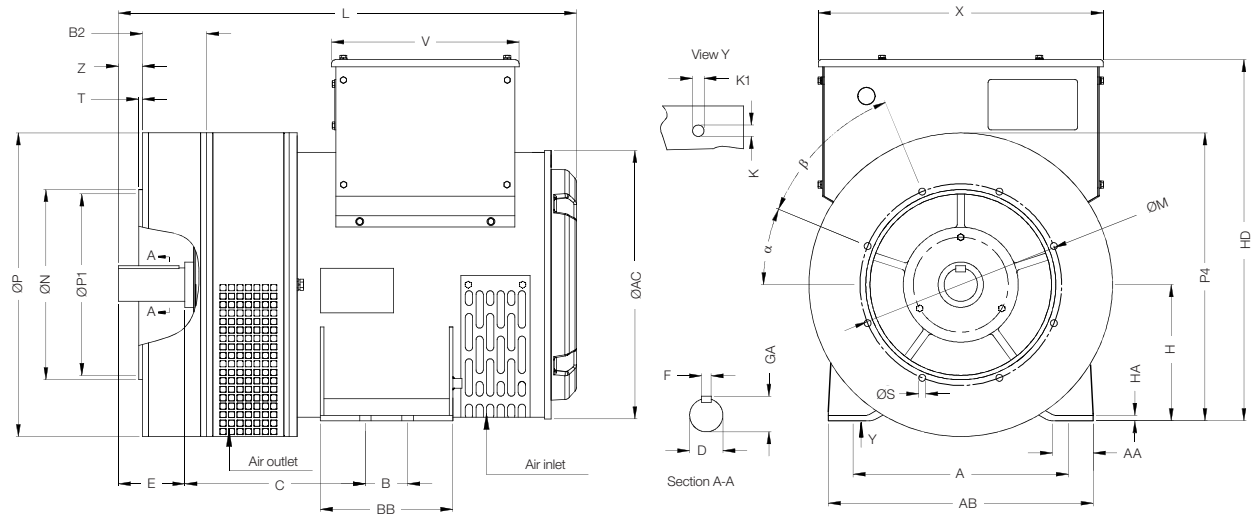
Note: data subject to change without prior notice.



Coupling Combinations and Dimensions

Double Bearing with Flange - B35T

GT10 Line (Frame 225)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	B2	Z	L
225S	356	70	438	219	74	9	19	19	225	642	444	471	310	298.5	106.4	39.6	758
225M																	791

Flange									
SAE	$\varnothing P$	P4	$\varnothing N$	$\varnothing P1$	$\varnothing M$	T	$\varnothing S$	α	β
5	502	476	314.3	300	333.4	6	11.5	22.5°	45°
4			361.9	348	381			15°	30°
3			409.6	396	428.6				
2			447.7	432	466.7				
1	559	505	511.2	496	530.2				

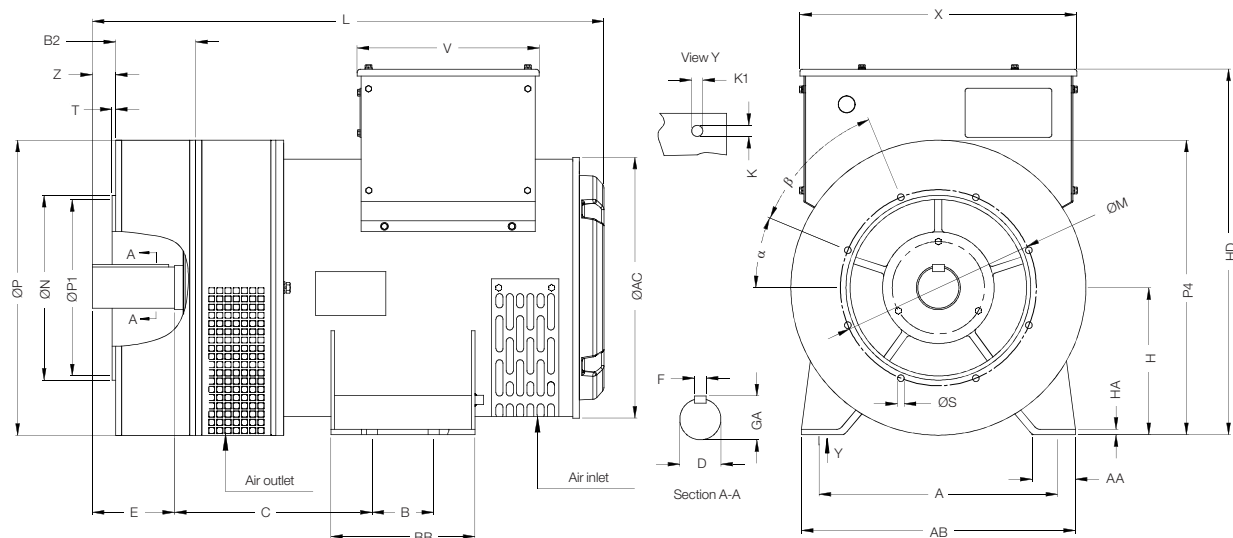
Shaft end			
D	GA	F	E
55	59	16	110

Note: data subject to change without prior notice.

Coupling Combinations and Dimensions

Double Bearing with Flange - B35T

GT10 Line (Frame 250)



Frame	Dimensions (mm)																
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	B2	Z	L
250S	406	105	466	245	73.4	9	19	19	250	667	444	471	310	336	136.4	39.6	871
250M		210		310													988
250L																	1,021

Flange									
SAE	ØP	P4	ØN	ØP1	ØM	T	ØS	α	β
5	502	501	314.3	300	333.4	6	11.5	22.5°	45°
4			361.9	348	381			15°	30°
3			409.6	396	428.6				
2			447.7	432	466.7				
1	559	530	511.2	496	530.2				

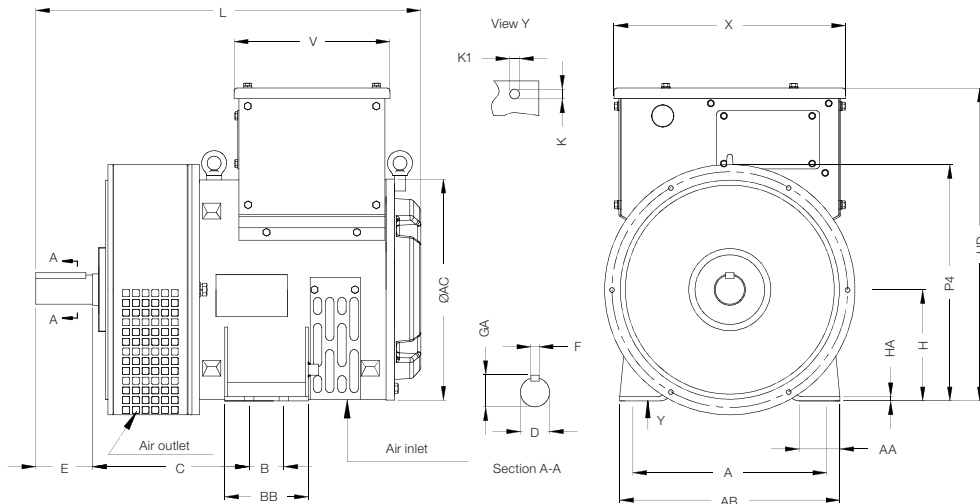
Shaft end			
D	GA	F	E
70	74.5	20	140

Note: data subject to change without prior notice.

Coupling Combinations and Dimensions

Double Bearing - B3T

GT10 Line (Frame 160)

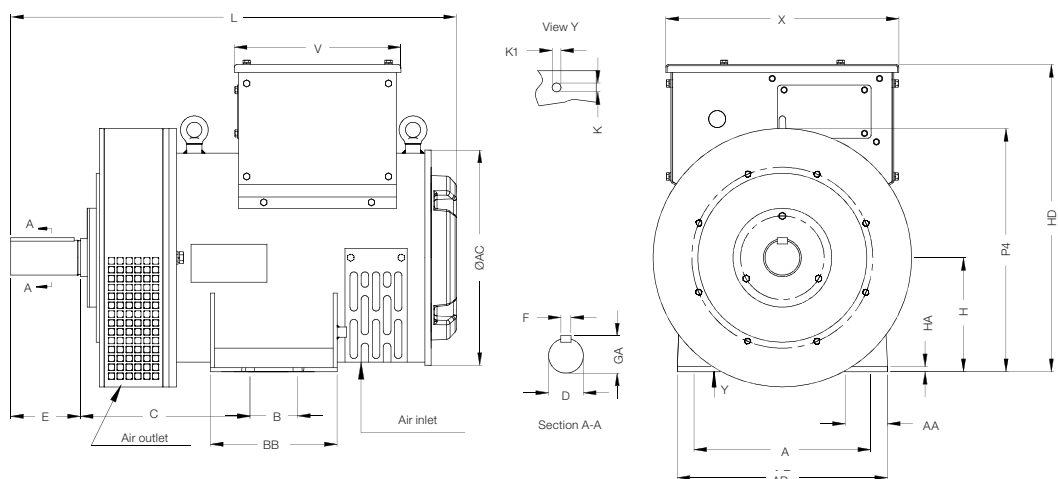


Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	P4	L
160S	279	50	317	120	70	7	14	14	160	450	318	333	224	225	340	554
160M																589

Shaft end			
D	GA	F	E
42	45.3	12	82

Note: data subject to change without prior notice.

GT10 Line (Frame 180)



Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	P4	L
180S	279	75	332	200	66.8	8	14	14	180	485	340	368	263	268	384	704
180M																766

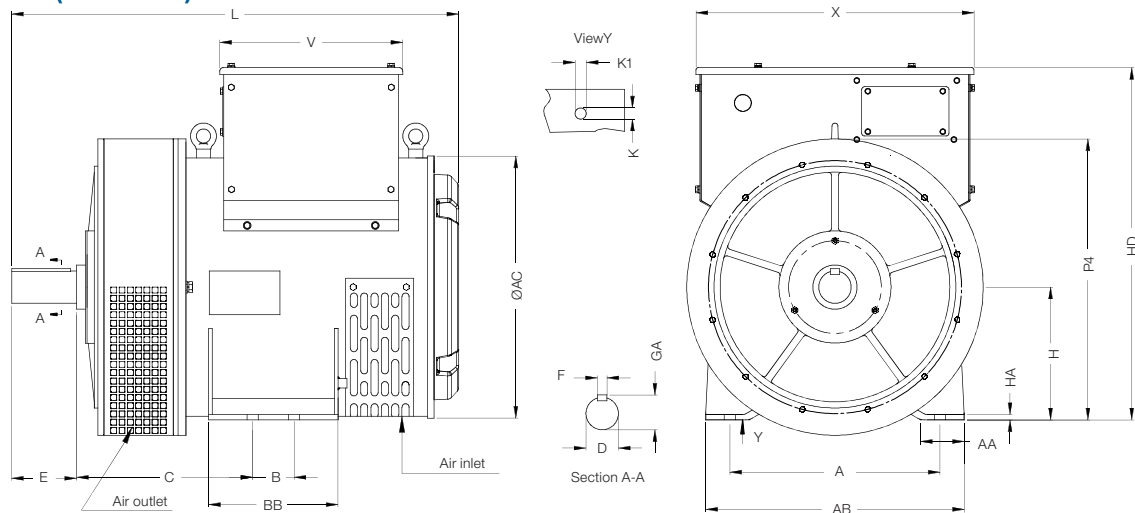
Shaft end			
D	GA	F	E
55	59	16	110

Note: data subject to change without prior notice.

Coupling Combinations and Dimensions

Double Bearing - B3T

GT10 Line (Frame 225)

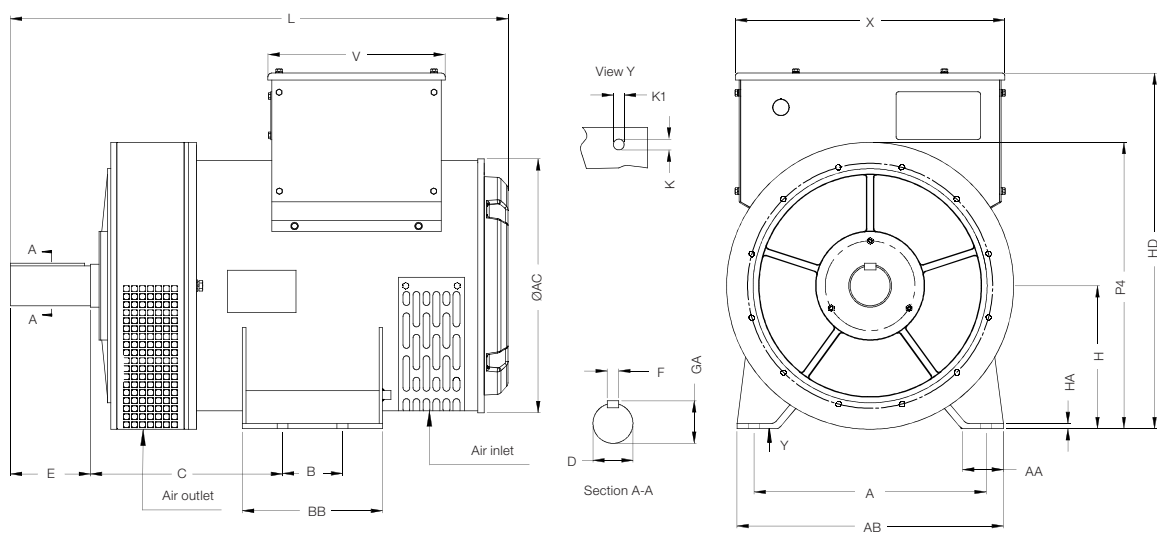


Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	P4	L
225S	356	70	438	219	74	9	19	19	225	642	444	471	310	298.5	476	758
225M																791

Shaft end			
D	GA	F	E
55	59	16	110

Note: data subject to change without prior notice.

GT10 Line (Frame 250)



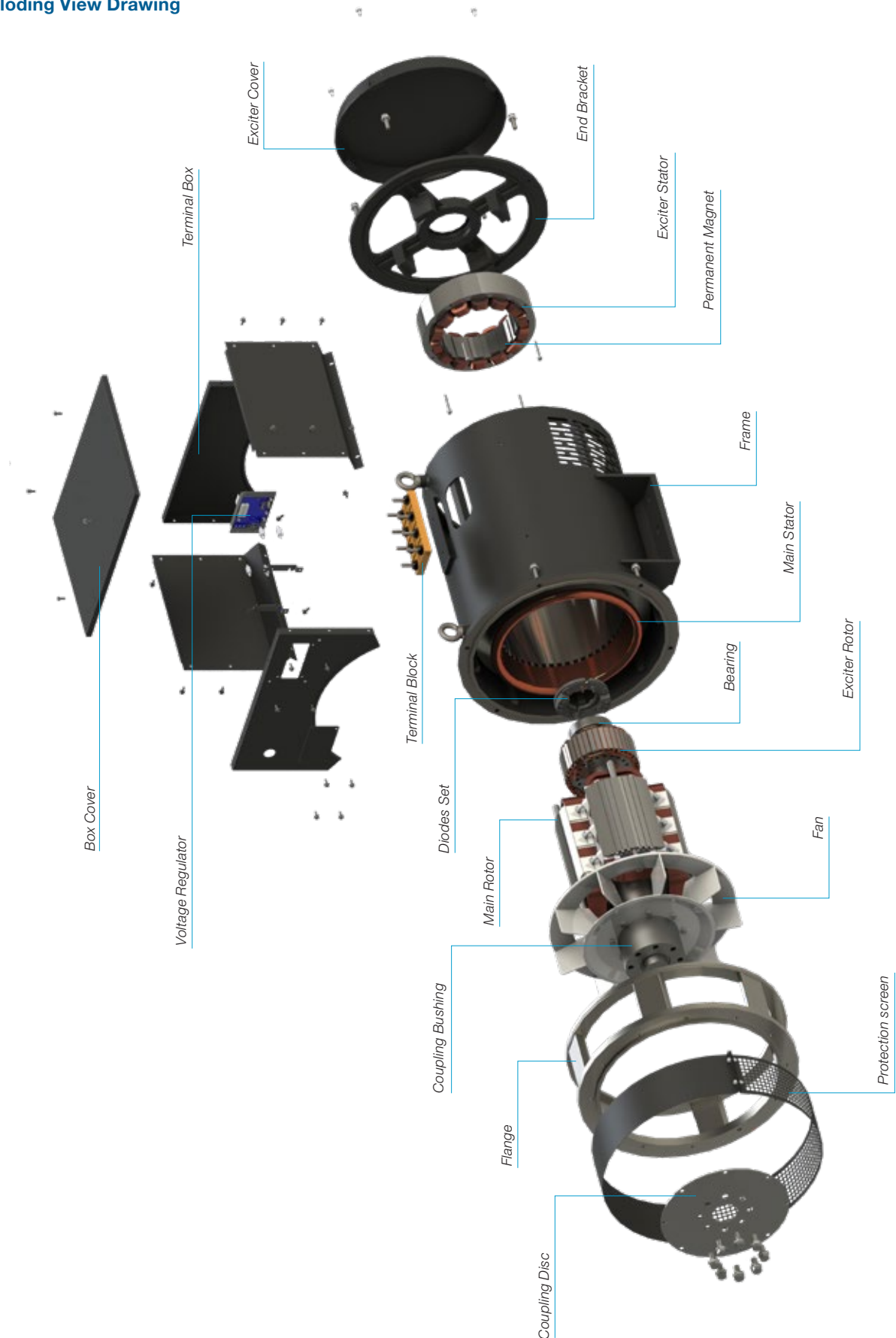
Frame	Dimensions (mm)															
	A	B	AB	BB	AA	HA	K	K1	H	HD	øAC	X	V	C	P4	L
250S	406	105	466	245	73.4	9	19	19	250	667	444	471	310	336	501	871
250M		210		310												988
250L																1,021

Shaft end			
D	GA	F	E
70	74.5	20	140

Note: data subject to change without prior notice.

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