

CONT 1020 kVA



Ratings and Dimensions

Frequency	50 Hz.									
Wire Connection	12 Wire Three Pheese									
Power Factor	0	,8	0	,8	0	,8	0,8			
Winding No.	#1	125 #125			#125		#125			
Y Series Star	38	80 400			4:	15	440			
YY Parallel Star	19	90	200		208		220			
△ Series Delta	22	20	23	30	240		254			
	kVA	kW	kVA	kW	kVA	kW	kVA	kW		
Cont. F 105/40°C	875	700	918	734	918	734	835	668		
Cont. H 125/40°C	960	768	1020 816		1020	816	920	736		
Stdby H 150/40°C	985	788	1035 828		1035	828	942	754		
Stdby H 163/27°C	1000	800	1055	844	1055	844	960	768		

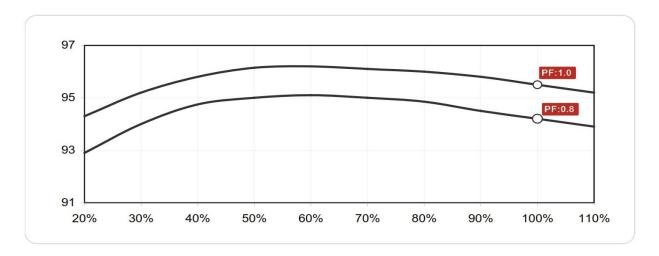
Frequency	50 Hz.									
Wire Connection		12 Wire Si	ngle Phase		4 Wire Single Phase					
Power Factor	0	,8		1	0,8		1			
Winding No.	#1	.25			#41		#4	41		
ΔΔ Double Delta	220-23	0-240V	220-230-240V		220-230-240V		220-230-240V			
	kVA	kW	kVA	kW	kVA	kW	kVA	kW		
Cont. F 105/40°C	-	-	-	-	-	-	-	-		
Cont. H 125/40°C	-	-	-	-	-	-	-	-		
Stdby H 150/40°C	-	-	-			1	-	-		
Stdby H 163/27°C	-	-	-	-	-	1	-	-		

Frequency	60 Hz.									
Wire Connection	12 Wire Three Pheese									
Power Factor	0	0,8 0,8				,8	0,8			
Winding No.	#1	125 #125			#125		#125			
Y Series Star	4:	16	440			50	480			
YY Parallel Star	20	08	220		230		240			
△ Series Delta	24	40	2!	54	266		277			
	kVA	kW	kVA	kW	kVA	kW	kVA	kW		
Cont. F 105/40°C	990	792	1049	839	1097	878	1146	917		
Cont. H 125/40°C	1083	866	1145 916		1197	958	1250	1000		
Stdby H 150/40°C	1118	894	1180 944		1236	989	1290	1032		
Stdby H 163/27°C	1130	904	1195	956	1250	1000	1305	1044		

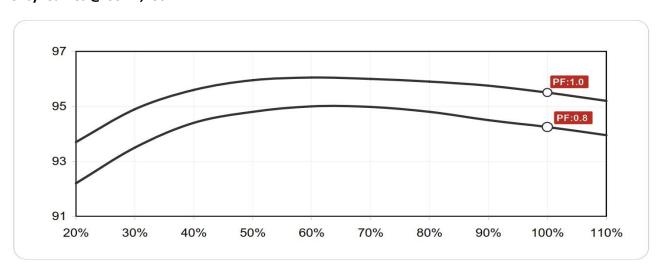
Frequency	60 Hz.									
Wire Connection	12 Wire Single Phase				4 Wire Single Phase					
Power Factor	0	,8		1 0,		,8		1		
Winding No.	#1	25	#125		#42		#4	42		
ΔΔ Double Delta	24	0V	240V		240V		240V			
	kVA	kW	kVA	kW	kVA	kW	kVA	kW		
Cont. F 105/40°C	-	-	-	-	-	1	-	-		
Cont. H 125/40°C	-	-	-	-	-	-	-	-		
Stdby H 150/40°C	-	-			-	-	-	-		
Stdby H 163/27°C	-	-					-	-		

Effiency and Motor Starting

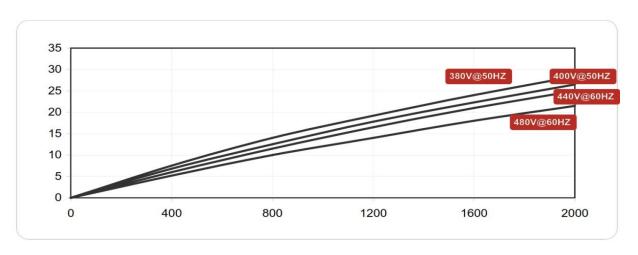
Effiency Curve @ 50 Hz,400V



Effiency Curves @ 60 Hz,480V



Motor Starting Curves @ 50 Hz, 60 Hz Locked Rotor



Technical Data Sheet

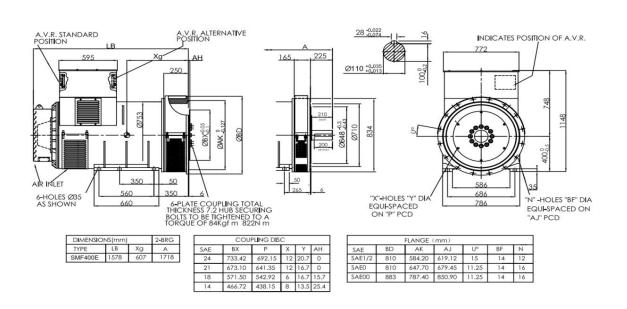
STANDARD(S) OPTIONAL(O) INFORMATION (I) SPECIFICATION

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EXCITATION	SELF-EXCITED	S	SUSTAINED SHORT-CIRCUIT: NOT AVAILABLE
SYSTEM	ARAP		
· - · · ·	PMG		
	SX460	S	REGULATION PRECISION : +/-1,0 %
AVR	SX440	0	REGULATION PRECISION : +/-1,0 %
, , , , ,	MX341		
	MX321		
WINDING	Н	S	
INSULATION	F		
WINDING PITCH	2/3	S	HIGHER FLEXIBILITY IN USE,BETTER MOTOR STARTING ABILITY
WINDHIG FITCH	5/6	0	COST-EFFECTIVE POWER SUPPLY SCHEME
	STANDARD	S	
WINDING	"ANTI-HARSH"	0	SPECIAL TREATMENT OF WINDING TO AGINST HASRH ENVIROMENT
PROTECTION	SPACE HEATER	0	TO HEAT UP AIR TO REMOVE THE HUMMINITY AROUND WINDING
	THERMAL SENSOR	0	TO DETECT THE WINDING TEMPERATURE OR BEARING'S
	CT100	0	
PARALLEL	CT200		
OPERATION	CT400		
OPERATION	CT600		
	CT1000		
WINDING LEADS	12	S	12 LEADS OF WINDING ENDS,
WINDING LEADS	6	0	6 LEADS OF WINDING ENGS
MACHINE	IP23	S	STANDARD MACHINE PROTECTION
PROCTIION	IP44	0	TO AGINST : 1mm OBJECT AND SPLASHING WATER
PROCITION	IP54		
POWER FACTOR	1	0	
POWER FACIOR	0,8	S	
	SINGLE BEARING	S	
CONNECTION TO	DOUBLE BEARING	0	
ENGINE	BELT DRIVE	0	
	VERTICAL		
OVERSPEED		I	MAX ROTATING SPEED : 2250 RPM
ATTITUDE	<=1000m	ı	DERATING IS NO NEED
ATTITUDE	>1000m	ı	DERATING NEEDED, REFERS TO RATING BOOK
FLECTIBLEAL	TDF/THC	I	NO LOAD < 1,5 %, NON DISTORATING BALANCED LINEAR LOAD< 5,0 %
ELECTIRICAL	TIF	I	<50
FEATRUES	THF	I	<2%
DEADING	DRIVE -END	ı	BALL 6224 - 2RS DOUBLE BEARING CONF. ONLY
BEARING	NON DRIVE END	ı	BALL 6317- 2RS
MEIGUT	NET	ı	SINGLE BEARING 2135 KG DOUBLE BEARING :2155KG
WEIGHT	GROSS	I	SINGLE BEARING 2190 KG DOUBLE BEARING : 22213KG
PACKING SIZE		I	SINGLE B. : 1750X1000X1320 mm DOUBLE B. : 1850X1000X1320 mm

Technical Data Sheet

STANDARD(S) OPTIONAL(O) INFORMATION (I)		SPECIFICATION								
	50 HZ					60 HZ				
SERIES STAR (V)	380	400	415	440	416	440	460	480		
PARALLEL STAR (V)	190	200	208	220	208	220	230	240		
SERIES DELTA (V)	220	230	240	254	240	254	266	277		
Xd - Direct axis synchro. Reactance unsaturated										
X'd - Direct axis transient reactance saturated.										
X"d - Direct axis sub transient reactance saturated										
Xq - Qadro. Axis synchro.reactance unsaturated.										
X"q - Quadro. Axis sub transiet reactance saturated.										
X2 - Negative sequence reactance unsturated										
Xo -Zero sequence reactance unsaturated.										
T'd- Short - Circuit transiet time constant										
T"d - Sub Transiet time constant										
T'do- Open circuit time constant										
Ta- Armature time constant										
Kcc - Short Circuit Ratio										

Outline Drawing



Maranello designs, manufactures and markets the alternators which comply with the national and international standards. The alternator can be broadly used in the all-purposed application, such as backup, rental, telecom and marine, and also can be used in a.

Compliant with Standards

Other certifications can be considered on request.

Electrical Features

Automatic Voltage Regulator (AVR)

The high efficiency semiconductors of the AVR ensure positive build-up from initial low levels of residual voltage.

2/3 Winding Pitch

Effectively eliminates the effect of the third harmonics so as to avoid excessive neutral currents.

Varible Voltage Output

Standard voltage output can be achieved through the reconnectable 12 wire, and the beyond-the-standard voltage might be achieved by optional winding.

Overload Capability

Be capable of running at constant load limited to the insulation class with the possibility of overload up to 10% for 1 hour every 12 hours. (Continuous Duty -S1).

High Efficiency and Motor Starting Capacity

Optimizing design greatly improves the efficiency and motor starting capacity.

Mechanical Features

Bracket + Flexible Disc

The combination of casting braket and flexible disc makes product to be coupled with any brand of engine whose interface is international design

Terminal Box

Metal-made and accessed easily, it also can be customized on requests.

Shaft and Key

Rotors assembly is dymastically balanced under ISO8528 and BS5000 regulation, and double-bearing is balanced with half-key.

Bearing

Bearing is greased in the factory for life, and regreasable bearing is available on request.

Machine Protection

The standard protection is IP23, and IP44 is optional

Insulation and Impregnation

H-class Insulation

Materials used in the insulation system is classed "H", specially the copper wire applied is able to withstand 200°C

Vacuum Pressure Impregnation (VPI)

The advanced impregnation equipment is applied to ensure the electrical insulation and mechanical strength.

Winding Protection

Standard:

The winding is protected against relative humidity< 95%.

Optional:

The special-treated winding ("ANTI-HARSH") is recommended to apply for the environment humidity > 95%, or harsh environment such as atmospheric contaminants or salty water spr