

CONTROL SYSTEM	SEPARATELY EXCITED BY P.M.G.		
A.V.R.	MX321		MX341
VOLTAGE REGULATION	± 0.5 %	±1.0 %	With 4% ENGINE GOVERNING
SUSTAINED SHORT CIRCUIT	REFER TO SHORT CIRCUIT DECREMENT CURVES		

INSULATION SYSTEM	CLASS H
PROTECTION	IP22
RATED POWER FACTOR	0.8
STATOR WINDING	DOUBLE LAYER LAP
WINDING PITCH	TWO THIRDS
WINDING LEADS	12
STATOR WDG. RESISTANCE	0.0124 Ohms PER PHASE AT 22°C STAR CONNECTED
ROTOR WDG. RESISTANCE	1.06 Ohms at 22°C
EXCITER STATOR RESISTANCE	18 Ohms at 22°C
EXCITER ROTOR RESISTANCE	0.068 Ohms PER PHASE AT 22°C
R.F.I. SUPPRESSION	BS EN 61000-6-2 & BS EN 61000-6-4,VDE 0875G, VDE 0875N. refer to factory for others
WAVEFORM DISTORTION	NO LOAD < 1.6% NON-DISTORTING BALANCED LINEAR LOAD < 6.0%
MAXIMUM OVERSPEED	2250 Rev/Min
BEARING DRIVE END	BALL. 6317 (ISO)
BEARING NON-DRIVE END	BALL. 6314 (ISO)

	1 BEARING	2 BEARING
WEIGHT COMP. GENERATOR	940 kg	2045 kg
WEIGHT WOUND STATOR	415 kg	960 kg
WEIGHT WOUND ROTOR	361 kg	781 kg
WR ² INERTIA	4.0771 kgm ²	3.8783 kgm ²
SHIPPING WEIGHTS in a crate	1010kg	1010kg
PACKING CRATE SIZE	122 x 70 x 101(cm)	122 x 70 x 101(cm)

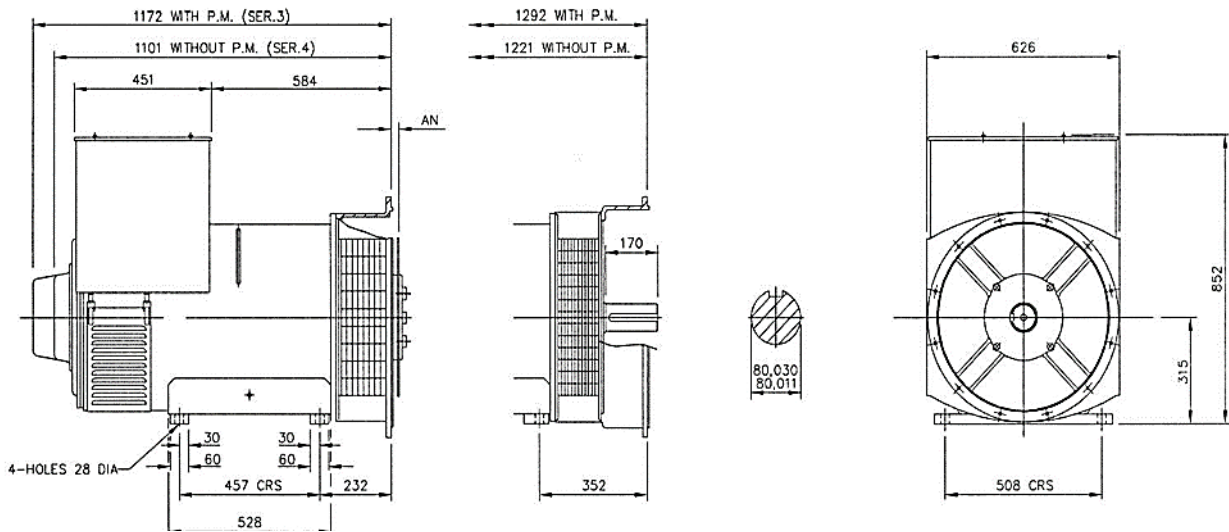
	50 Hz	60 Hz
TELEPHONE INTERFERENCE	THF<2%	TIF<50
COOLING AIR	0.8 m ³ /sec 1700 cfm	0.99 m ³ /sec 2100 cfm

	380/220	400/231	415/240	440/254	416/240	440/254	460/266	480/277
VOLTAGE STAR								
VOLTAGE DELTA	190/110	200/115	208/120	220/127	190/110	200/115	208/120	220/127
kVA BASE RATING FOR REACTANCE VALUES	300	300	300	290	344	360	375	375
X _d DIR. AXIS SYNCHRONOUS	3.16	2.85	2.65	2.28	3.60	3.37	3.21	2095
X' _d DIR. AXIS TRANSIENT	0.20	0.18	0.17	0.15	0.22	0.21	0.20	0.18
X'' _d DIR. AXIS SUBTRANSIENT	0.14	0.13	0.12	0.10	0.15	0.14	0.14	0.12
X _q QUAD. AXIS REACTANCE	2.66	2.40	2.23	1.92	3.09	2.89	2.75	2.53
X'' _q QUAD. AXIS SUBTRANSIENT	0.39	0.36	0.33	0.28	0.40	0.38	0.36	0.33
X _L LEAKAGE REACTANCE	0.07	0.06	0.06	0.05	0.09	0.09	0.08	0.07
X ₂ NEGATIVE SEQUENCE	0.26	0.24	0.22	0.19	0.28	0.27	0.25	0.23
X ₀ ZERO SEQUENCE	0.10	0.09	0.08	0.07	0.10	0.09	0.09	0.08

REACTANCES ARE SATURATED	VALUES ARE PER UNIT AT RATING AND VOLTAGE INDICATED
T' _d TRANSIENT TIME CONST.	0.08s
T'' _d SUB-TRANSTIME CONST.	0.019s
T' _{do} O.C. FIELD TIME CONST.	1.7s
T _α ARMATURE TIME CONST.	0.018s
SHORT CIRCUIT RATIO	1/X _d

RATINGS

Class - Temp Rise		Cont. F - 105/40°C				Cont. H - 125/40°C				Standby - 150/40°C				Standby - 163/27°C			
50 Hz	Series Star (V)	380	400	415	440	380	400	415	440	380	400	415	440	380	400	415	440
	Parallel Star (V)	190	200	208	220	190	200	208	220	190	200	208	220	190	200	208	220
	Series Delta (V)	220	230	240	254	220	230	240	254	220	230	240	254	220	230	240	254
	kVA	280	280	280	270	300	300	300	290	320	320	320	310	330	330	330	320
	kW	224	224	224	216	240	240	240	232	256	256	256	248	264	264	264	256
	Efficiency (%)	93.1	93.4	93.5	93.8	92.7	93.0	93.2	93.6	92.3	92.7	92.9	93.3	92.1	92.5	92.7	93.2
	kW Input	241	240	240	230	259	258	258	248	277	276	276	266	287	285	285	275



DIMENSIONS

Length (mm)	Width (mm)	Height (mm)
1210	626	852