

CONTROL SYSTEM	SELF EXCITED	
A.V.R	STANDARD SX460	OPTIONAL AS440
VOLTAGE REGULATION	± 1.0 %	± 1.0 %
SUSTAINED SHORT CIRCUIT	SELF EXCITED MACHINES DO NOT SUSTAIN A SHORT CIRCUIT CURRENT	

INSULATION SYSTEM	CLASS H
PROTECTION	IP22
RATED POWER FACTOR	0.8
STATOR WINDING	DOUBLE LAYER CONCENTRIC
WINDING PITCH	TWO THIRDS
WINDING LEADS	12
STATOR WDG. RESISTANCE	0.25 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED
ROTOR WDG. RESISTANCE	0.74 Ohms at 22°C
EXCITER STATOR RESISTANCE	22 Ohms at 22°C
EXCITER ROTOR RESISTANCE	0.115 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 < 1.5% NON-DISTORTING BALANCED LINEAR LOAD < 5.0%
MAXIMUM OVERSPEED	2250 Rev/Min
BEARING DRIVE END	BALL. 6309 - 2RS. (ISO)
BEARING NON-DRIVE END	BALL. 6306 - 2RS. (ISO)

	1 BEARING	2 BEARING
WEIGHT COMP. GENERATOR	151 kg	154 kg
WEIGHT WOUND STATOR	55 kg	55 kg
WEIGHT WOUND ROTOR	49.74 kg	50.52 kg
WR ² INERTIA	0.1909 kgm ²	0.1909 kgm ²
SHIPPING WEIGHTS in a crate	156 kg	164 kg
PACKING CRATE SIZE	76 x 62 x 84 (cm)	76 x 62 x 84 (cm)

	50 Hz	60 Hz
TELEPHONE INTERFERENCE	THF<2%	TIF<50
COOLING AIR	0.095 m ³ /sec 200 cfm	0.119 m ³ /sec 250 cfm

	380/220	400/231	415/240	440/254	416/240	440/254	460/266	480/277
VOLTAGE SERIES STAR								
VOLTAGE PARALLEL STAR	190/110	200/115	208/120	220/127	208/120	220/127	230/133	240/138
VOLTAGE SERIES DELTA	220/110	230/115	240/120	254/127	240/120	254/127	266/133	277/138
KVA BASE RATING FOR REACTANCE VALUES	27.5	27.5	27.5	22.5	32.5	34.4	34.4	35

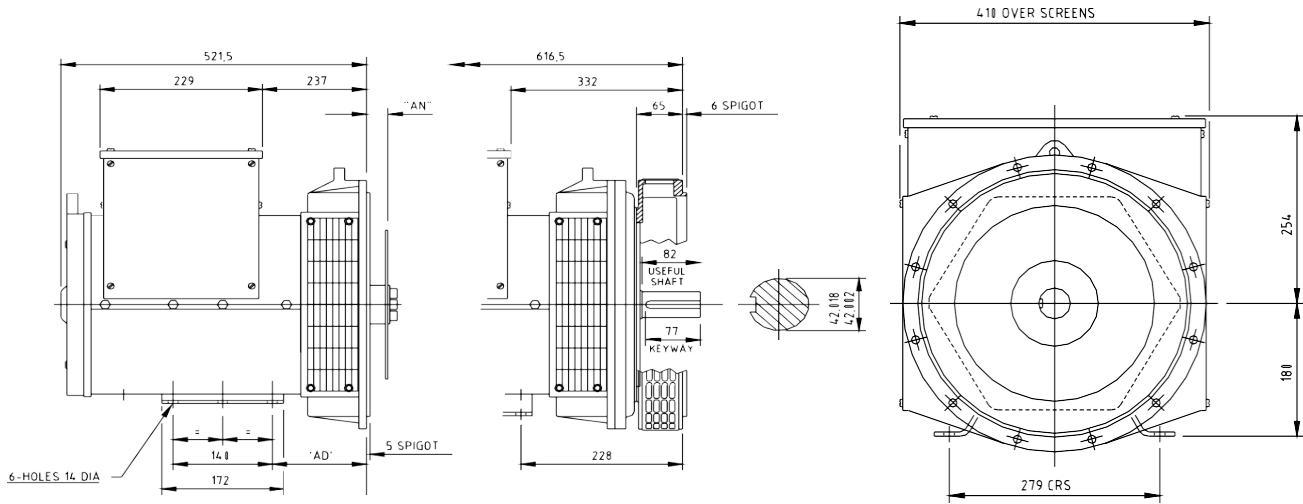
Xd DIR. AXIS SYNCHRONOUS	1.828	1.650	1.533	1.667	2.163	2.047	1.872	1.750
X'd DIR. AXIS TRANSIENT	0.188	0.170	0.158	0.172	0.210	0.199	0.182	0.170
X''d DIR. AXIS SUBTRANSIENT	0.122	0.110	0.102	0.111	0.148	0.140	0.128	0.120
Xq QUAD. AXIS REACTANCE	0.920	0.830	0.771	0.838	1.088	1.029	0.942	0.880
X''q QUAD. AXIS SUBTRANSIENT	0.211	0.191	0.177	0.192	0.247	0.234	0.214	0.200
XL LEAKAGE REACTANCE	0.073	0.066	0.061	0.066	0.087	0.082	0.075	0.070
X2 NEGATIVE SEQUENCE	0.166	0.150	0.139	0.152	0.198	0.187	0.171	0.160
X0 ZERO SEQUENCE	0.080	0.072	0.067	0.073	0.094	0.089	0.081	0.076

REACTANCES ARE SATURATED VALUES ARE PER UNIT AT RATING AND VOLTAGE INDICATED

T'd TRANSIENT TIME CONST.	0.022s
T''d SUB-TRANSTIME CONST.	0.0055 s
T'do O.C. FIELD TIME CONST.	0.45 s
Ta ARMATURE TIME CONST.	0.0065 s
SHORT CIRCUIT RATIO	1/Xd

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	25.0	25.0	25.0	20.5	27.5	27.5	27.5	22.5	29.0	29.0	29.0	23.7	30.0	30.0	30.0	24.5
	kW	20.0	20.0	20.0	16.4	22.0	22.0	22.0	18.0	23.2	23.2	23.2	19.0	24.0	24.0	24.0	19.6
	Efficiency (%)	86.1	86.5	86.7	86.9	85.3	85.8	86.0	86.4	84.7	85.3	85.6	87.2	84.4	84.9	85.2	87.1
	kW Input	23.2	23.1	23.1	23.0	25.8	25.6	25.6	25.5	27.4	27.2	27.1	21.7	28.4	28.3	28.2	22.5



DIMENSIONS

Length (mm)	Width (mm)	Height (mm)
574	410	434