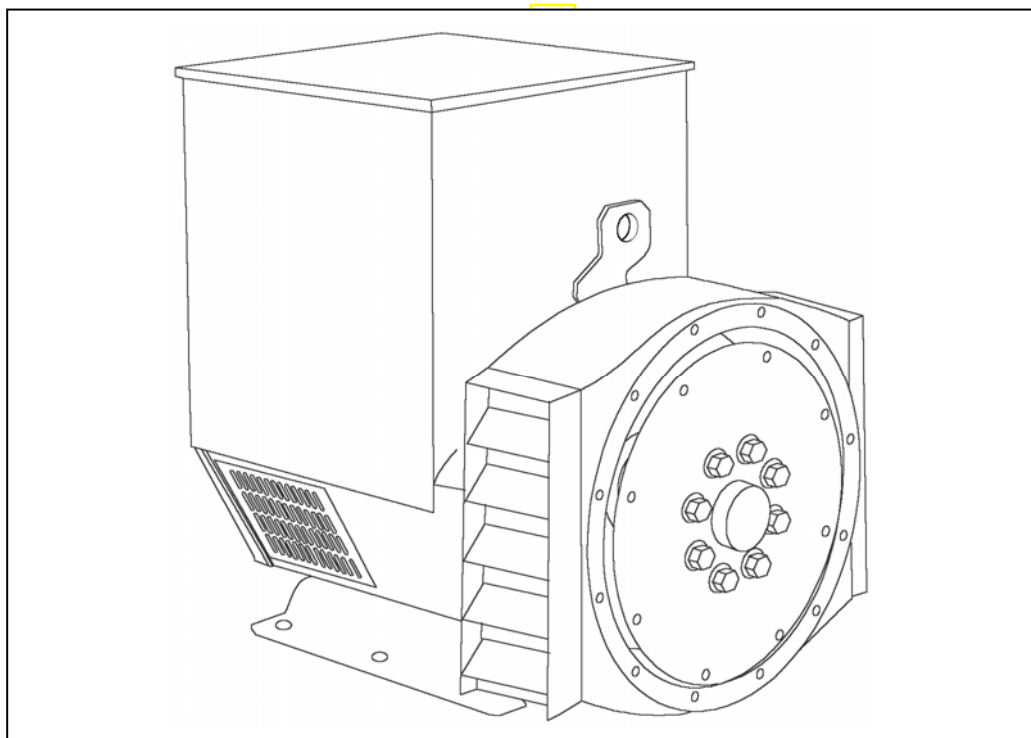


STAMFORD[®]

UCM274C - Winding 311

Technical Data Sheet



UCM274C

STAMFORD

WINDING 311

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 (page 7)							
INSULATION SYSTEM	CLASS H							
PROTECTION	IP23							
RATED POWER FACTOR	0.8							
STATOR WINDING	DOUBLE LAYER CONCENTRIC							
WINDING PITCH	TWO THIRDS							
WINDING LEADS	12							
STATOR WDG. RESISTANCE	0.059 Ohms PER PHASE AT 22°C SERIES STAR CONNECTED							
ROTOR WDG. RESISTANCE	1.12 Ohms at 22°C							
EXCITER STATOR RESISTANCE	20 Ohms at 22°C							
EXCITER ROTOR RESISTANCE	0.078 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. 6315-2RS (ISO)							
BEARING NON-DRIVE END	BALL. 6310-2RS (ISO)							
	1 BEARING				2 BEARING			
WEIGHT COMP. GENERATOR	406 kg				420 kg			
WEIGHT WOUND STATOR	131 kg				131 kg			
WEIGHT WOUND ROTOR	133.8 kg				122.8 kg			
WR ² INERTIA	1.0288 kgm ²				0.9781 kgm ²			
SHIPPING WEIGHTS in a crate	439 kg				452 kg			
PACKING CRATE SIZE	105 x 67 x 103 (cm)				105 x 67 x 103 (cm)			
	50 Hz				60 Hz			
TELEPHONE INTERFERENCE	THF<2%				TIF<50			
COOLING AIR	0.514 m³/sec 1090 cfm				0.617 m³/sec 1308 cfm			
VOLTAGE SERIES STAR	380/220	400/231	415/240	440/254	416/240	440/254	460/266	480/277
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	81.5	81.5	81.5	N/A	93.8	102.5	102.5	108.8
Xd DIR. AXIS SYNCHRONOUS	2.00	1.80	1.67	-	2.30	2.25	2.06	2.00
X'd DIR. AXIS TRANSIENT	0.16	0.15	0.14	-	0.20	0.19	0.18	0.17
X''d DIR. AXIS SUBTRANSIENT	0.11	0.11	0.10	-	0.13	0.13	0.12	0.11
Xq QUAD. AXIS REACTANCE	1.30	1.17	1.08	-	1.32	1.29	1.18	1.15
X''q QUAD. AXIS SUBTRANSIENT	0.15	0.13	0.12	-	0.19	0.18	0.17	0.17
XL LEAKAGE REACTANCE	0.06	0.05	0.05	-	0.07	0.06	0.06	0.06
X2 NEGATIVE SEQUENCE	0.13	0.11	0.11	-	0.16	0.16	0.14	0.14
X0 ZERO SEQUENCE	0.08	0.07	0.07	-	0.10	0.10	0.09	0.09
REACTANCES ARE SATURATED				VALUES ARE PER UNIT AT RATING AND VOLTAGE INDICATED				
T'd TRANSIENT TIME CONST.	0.028 s							
T''d SUB-TRANSTIME CONST.	0.01 s							
T'do O.C. FIELD TIME CONST.	0.8 s							
Ta ARMATURE TIME CONST.	0.007 s							
SHORT CIRCUIT RATIO	1/Xd							

UCM274C

Winding 311 / 0.8 Power Factor

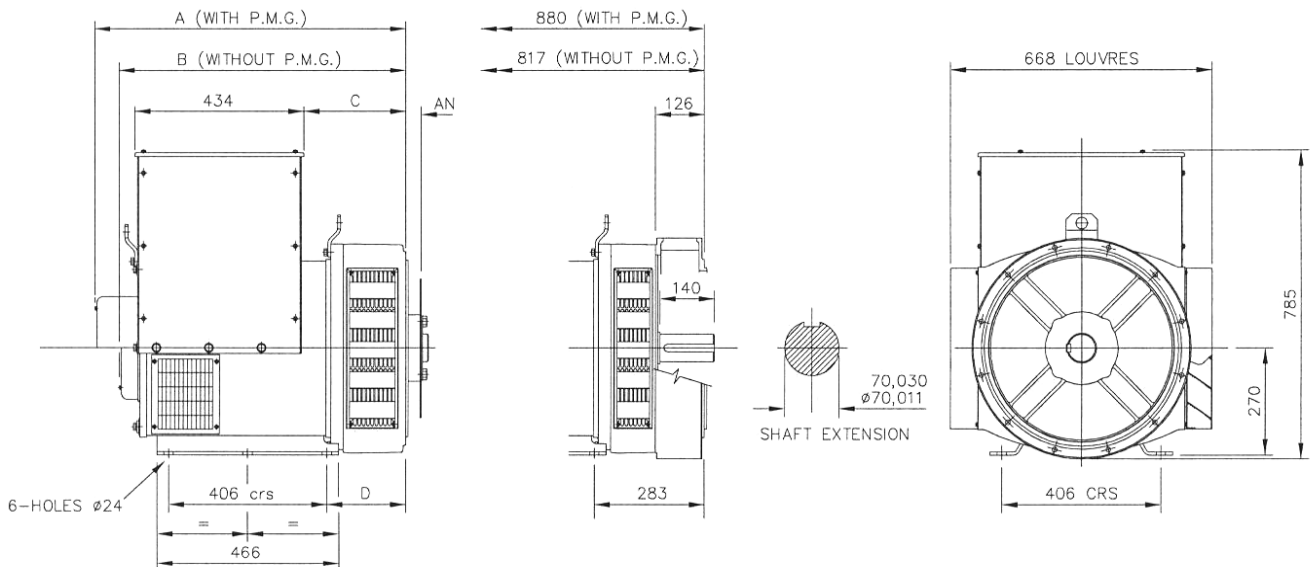
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RATINGS

Class - Temp Rise		Cont. E - 65/50°C				Cont. B - 70/50°C				Cont. F - 90/50°C				Cont. H - 110/50°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	65.0	65.0	65.0	N/A	67.5	67.5	67.5	N/A	77.5	77.5	77.5	N/A	81.5	81.5	81.5	N/A
	kW	52.0	52.0	52.0	N/A	54.0	54.0	54.0	N/A	62.0	62.0	62.0	N/A	65.2	65.2	65.2	N/A
	Efficiency (%)	91.6	91.8	92.0	N/A	91.5	91.8	91.9	N/A	91.0	91.4	91.6	N/A	90.8	91.2	91.4	N/A
	kW Input	56.8	56.6	56.5	N/A	59.0	58.8	58.8	N/A	68.1	67.8	67.7	N/A	71.8	71.5	71.3	N/A

60 Hz	Series Star (V)	416	440	460	480	416	440	460	480	416	440	460	480	416	440	460	480
	Parallel Star (V)	208	220	230	240	208	220	230	240	208	220	230	240	208	220	230	240
	Series Delta (V)	240	254	266	277	240	254	266	277	240	254	266	277	240	254	266	277
	kVA	72.0	72.5	75.0	75.0	75.0	77.5	80.0	80.0	90.0	92.5	97.5	97.5	93.8	102.5	102.5	108.8
	kW	57.6	58.0	60.0	60.0	60.0	62.0	64.0	64.0	72.0	74.0	78.0	78.0	75.0	82.0	82.0	87.0
	Efficiency (%)	91.9	92.2	92.3	92.5	91.8	92.0	92.2	92.4	91.2	91.5	91.7	91.9	91.1	91.2	91.5	91.6
	kW Input	62.7	62.9	65.0	64.9	65.4	67.4	69.4	69.3	78.9	80.9	85.1	84.9	82.4	89.9	89.6	95.0

DIMENSIONS



SINGLE BEARING ADAPTORS				
ADAPTOR	A	B	C	D
SAE 1	813,3	750,3	274,3	216,3
SAE 2	799	736	260	202
SAE 3	799	736	260	202

COUPLING DISCS	
DISC	AN
SAE 10	53,98
SAE 11,5	39,68
SAE 14	25,40