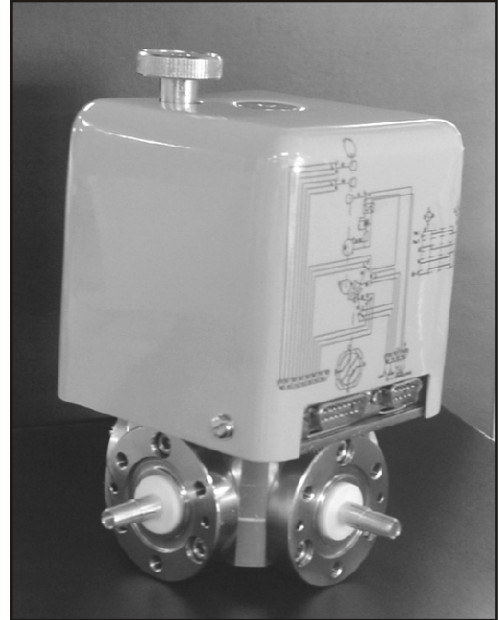


121.130

Switch Size	Type	Motor Drive Voltage
7/16 DIN female	121.110	24 VDC
	121.111	110 VAC *
		230 VAC *
121.113	Manual	
7/8" EIA flanged	121.120	24 VDC
	121.121	110 VAC *
		230 VAC *
121.123	Manual	
1 5/8" EIA flanged	121.130	24 VDC
	121.131	110 VAC *
		230 VAC *
121.133	Manual	

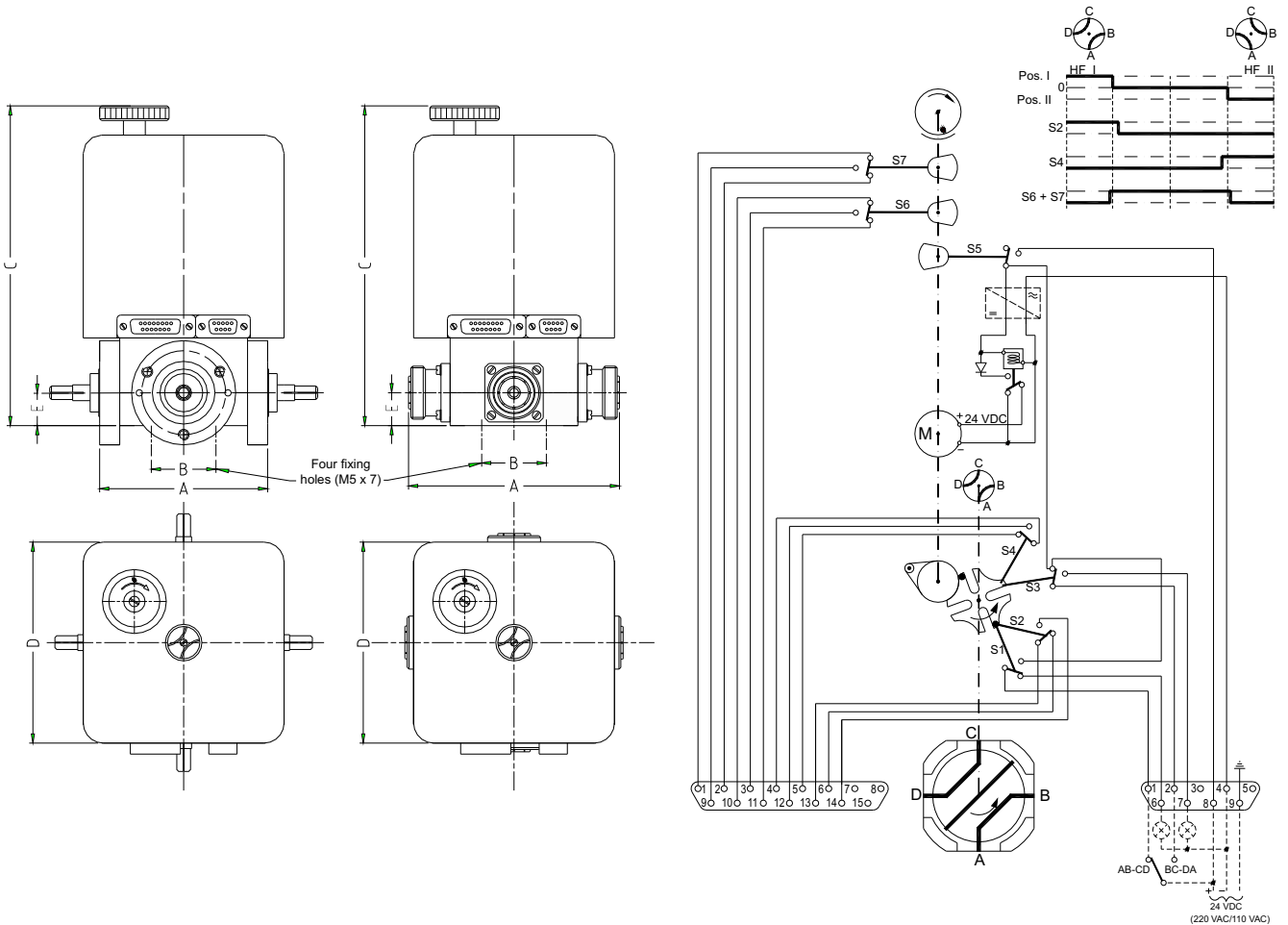


* motors are 24 VDC (convertors included)

- General:** Coaxial switches 7/16 DIN, 7/8"EIA and 1 5/8"EIA motorized blade type with four ports are intended for fast and reliable switching of coaxial transmission line systems. The coaxial switch 7/16 has standard 7/16 DIN female interfaces. The ports of the 7/8" and 1 5/8" coaxial switches are terminated with standard EIA fixed flanges with non-removable male inner conductor connectors. All sizes have similar construction and use the same drive package.
- Mechanical design:** Switching is accomplished by one 24 VDC motor and a simple Geneva mechanism providing very accurate 90° rotation and mechanical locking of the rotor in the operating position. A dwell period between the rotation of the driving shaft and the movement of the RF contacts, activates the auxiliary micro contacts which disconnect the RF power throughout the switch to prevent any damage of the components attached and the switch itself. The switches are equipped with a visual position indicator and emergency knob for manual switching.
- Material:** The switch cavity is manufactured in nickel plated brass. A virgin PTFE has been used as an isolation material inside the switch body. RF spring contacts are made from silver plated beryllium copper alloy designed for durability and high currents.
- Development:** Aiming to meet customer's requirements at the same time achieving cost-efficient manufacturing process and easy to maintain equipment, we accepted totally new concept for our new line of coaxial power switches design where the driving and high frequency part of the switch are dividable. Thus the maintenance and service could be done in much quicker and easier way.

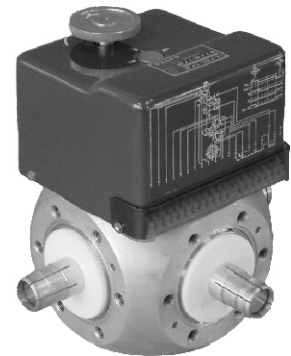
Coaxial Switches Specifications

		Coaxial Switches					
		7/16		7/8"		1 5/8"	
Frequency Range		0 1000 MHz		0 1000 MHz		0 1000 MHz	
Average Power Rating	Freq. in MHz	2	30	100	500	1000	
	Pow. in kW	10	6	4	2.3	1.4	
		2	30	100	500	1000	
		15	8	4.5	2.5	1.8	
		2	30	100	500	1000	
		90	26	14	6	4.5	
Impedance		50		50		50	
VSWR		< 1.05		< 1.05		< 1.05	
Isolation		> 60 dB		> 60 dB		> 60 dB	
Switching Time		< 1 sec.		< 1 sec.		< 1 sec.	
Test Voltage 50 Hz		3 kV peak		4.5 kV peak		8 kV peak	
Dimensions	A(mm)	118		92		135	
	B(mm)	□35.4		□35.4		□63.6	
	C(mm)	175		175		206	
	D(mm)	108		108		108	
	E(mm)	18		18		32	
Fixing Holes Data		Four holes M5 x 7		Four holes M5 x 7		Four holes M5 x 12	
Weight		2.8 kg		3.8 kg		8.8 kg	

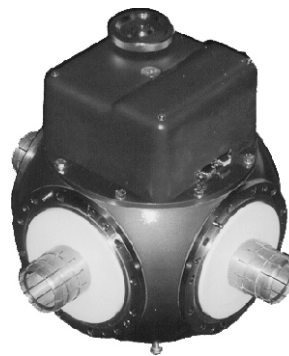


Switch Size	Type	Motor Drive Voltage
3 1/8" EIA flanged	121.200	24 VDC
	121.201	110 VAC * 230 VAC *
	121.203	Manual
4 1/2" EIA flanged	121.210	24 VDC
	121.211	110 VAC * 230 VAC *
	121.213	Manual
6 1/8" EIA flanged	121.240	24 VDC
	121.241	110 VAC * 230 VAC *
	121.243	Manual
9" Thales flanged	121.260	24 VDC
	121.261	110 VAC * 230 VAC *
	121.263	Manual

121.202



121.240



121.260



* motors are 24 VDC (convertors included)

- General:** Coaxial switches 3 1/8" EIA flanged, 4 1/2" EIA flanged, 6 1/8" EIA flanged, and 9" Thales standard flanged, are motorized switches with 4 ports, intended for switching of coaxial transmission line systems. These are rotary type switches with aluminum RF cavity common to all ports. The rotor assembly contains two inner conductors, both ending with beryllium copper alloy RF contacts for high current capacity and long life. All four ports are terminated with standard fixed flanges with non-removable male inner conductor connectors. All sizes have similar construction and use the same drive package.
- Mechanical design:** Switching is realized with a 24 VDC motor and a simple Geneva mechanism, which provides a very accurate 90° rotation and mechanical locking of the rotor in the switchers operating position. A dwell period between the rotation of the driving shaft and the movement of the RF contacts activates the auxiliary micro switches prior to the actual movement of the RF contacts in order to prevent them from possible damages. For example: The control signal from the auxiliary micro switches is used to temporarily turn off (disable) the device that inputs power to the input connector(s), and in this way protects the interior of the switch from possible sparking. The switches are equipped with a visual position indicator and a knob for emergency manual switching.
- Development:** Aiming to meet customer's requirements at the same time achieving cost-efficient manufacturing process and easy to maintain equipment, we accepted totally new concept for our new line of coaxial power switches design where the driving and high frequency part of the switch are dividable. Thus the maintenance and service could be done in much quicker and easier way.

Coaxial Switches Specifications

		Coaxial Switches							
		3 1/8"		4 1/2"		6 1/8"		9"	
Frequency Range		0 1000 MHz		0 1000 MHz		0 800 MHz		0 500 MHz	
Average Power Rating	Freq. in MHz	Pow. in kW	Freq. in MHz	Pow. in kW	Freq. in MHz	Pow. in kW	Freq. in MHz	Pow. in kW	
	2	200	2	400	2	800	2	1000	
	30	80	30	140	30	250	30	550	
	100	45	100	70	100	120	100	280	
	500	18	500	35	500	55	500	120	
	1000	15	900	22	700	42			
Impedance	50		50		50		50		
VSWR	< 1.05		< 1.05		< 1.05		< 1.05		
Isolation	> 60 dB		> 60 dB		> 60 dB		> 60 dB		
Switching Time	< 2 sec.		< 2 sec.		< 2 sec.		< 2 sec.		
Test Voltage 50 Hz	19 kV peak		40 kV peak		42 kV peak		50 kV peak		
Dimensions	A(mm)	170	210	280	410				
	B(mm)	□110	□123	□173	□250				
	C(mm)	258	301	334	440				
	D(mm)	66	80.5	103.5	156				
Fixing Holes Data	Four holes M10 x 20		Four holes M10 x 20		Four holes M10 x 20		Four holes M10 x 25		
Weight	28 kg		35 kg		44 kg		65 kg		

