

Protect ATS



Automatic Transfer Switch



Application ATS

Modern data and telecommunication systems require a power supply with a maximum of reliability and availability. Down-times are not acceptable nowadays, even during maintenance the redundancy has to be ensured. The ATS offers the possibility to switchover between two independent AC power sources.

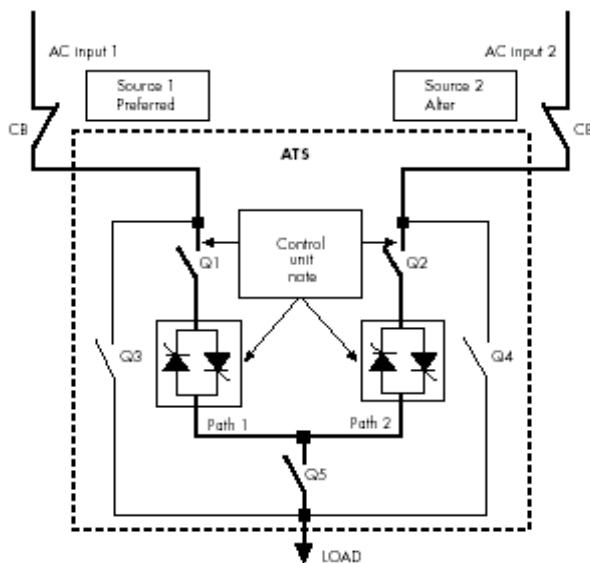
ATS provides an effective solution for redundancy as follows:

- complete separation of the two Power sources, associated input lines included.
- separation of the load to protect against mutual disturbances.
- supplies loads from two sources (e.g. UPS which are different of their power rating and type).



Schematic diagram of a typical ATS installation

Schematic diagram of a typical ATS installation



Prime Features

- Intelligent controlled transfer functions
- Low operating cost
- Immune against EMC-stress
- Rugged cabinet design
- Remote control via potential free contacts
- Communication via RS 485 interface (optional)
- CE - compliant
- 3 pole (optional 4 pole)
- Integrated manual Maintenance Bypass

PROTECT ATS

AUTOMATIC-TRANSFER-SWITCH

SPECIFICATION

TYPE Protect ATS

	100	200	400	600	800	1200
Available current/phase (A)	100	200	400	600	800	1200
Type power (kVA)	70	138	277	415	554	831
Power dissipation (kW)	0,35	0,7	1,26	1,89	2,52	3,8
Efficiency (rated load)	99%					
Input voltage	380 V; 400 V; 415 V; +20% -35%					
Frequency	50/60 Hz \pm 5%					
Model	3-pole : 3 phase switched 4-pole : 4 phase switched					
Overload capability	125% for 5 min.; 600% for 10 sec.; 1500% for 10 ms					
Transfer time	< 1 ms by manual switching < 3ms by automatic switching; adjustable up to 3 s if both sources are unsynchronous					
Monitoring/Adjustment	Phase deviation Over voltage Under voltage Over load Frequency deviation Switch back delay Thyristor: short circuit or open					
Indicators	source 1 active; source 2 active; source 1 preferred; source 2 preferred; Common fault					
Remote monitoring	Contacts (change over – potential free) optional RS 485 / Modbus					
Noise level	< 55 dB(A) (measured at 1m distance)					
EMC Emission	EN 61000-6-3; Class A					
EMC Immunity	IEC 61000-4 -2/ -3/ -4/ -5					
Operating temperature	0°C to +40°C					
Type of cooling	Reinforced natural air cooling					
Humidity	0 to 95%, non condensing					
Max. Installation height	max. 1000 m above sea level at nominal load					
Protection system	IP 20 to IEC 529/EN 60529					
Colour	RAL 7032					
Appr. Dimensions (mm)						
Width	900	900	900	1.200	1.200	1.500
Height	1.700	1.700	1.900	1.900	2.200	2.200
Depth	700	700	900	900	900	900
Appr. Weight (kg)	275	290	560	590	715	750

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