

# AP-ATS-3 Transfer Switch

The AP-ATS-3 is a PC class three-section automatic transfer switch used for seamless operation and transfer between two power supply systems, that is, mains and back-up power (AC 50Hz, rated up to 400V and 630A). The internal monitoring system can detect the difference between two power sources and can switch between them when transfer conditions are met. This device can also send a generator-start signal if required.

The AP-ATS-3 exhibits resilient, high density silver alloy contacts that can withstand thousands of operating cycles, continuously loading 100% rated current without burning, pitting or melting.

## Some key features include:

- High short time current withstand capacity
- High short circuit making capacity
- High density silver alloy contacts
- High making and break capacity
- Compact design
- Three position isolation lock
- Display controller integrated and detachable
- Multiple controller functions



**Product Specifications**

Model	AP-ATS-3-125	AP-ATS-3-250	AP-ATS-3-630
Poles	3/4		
Rated Current ( $I_e$ )	16-125A	140-250A	315-630A
Rated Voltage ( $U^e$ )	400V		
Rated Insulation Voltage ( $U_i$ )	800V		
Rated Impulse Withstand Voltage ( $U_{imp}$ )	8kV		
Use Category	AV-33B		
Rated Short-time Withstand Current ( $I_{cw}$ )	10kA <sub>rms</sub> (200ms)	10kA <sub>rms</sub> (200ms)	25kA <sub>rms</sub> (200ms)
Rated Short Circuit Making Capacity ( $I_{cm}$ )	20kA <sub>peak</sub>	30kA <sub>peak</sub>	50kA <sub>peak</sub>
Rated Limit Short Circuit Current ( $I_q$ )	120kA		
Rated Control Power Supply Voltage ( $U_s$ )	230V @ 50Hz		
Contact Transfer Time	1.5s	1.8s	2s
Operation Cycles	10,000	8,000	4,000
Working Temp	-5 – 40°C (23 – 104°F)		
Humidity	Up to 90% @ <40°C and <50% @ ≥40°C		
Altitude	< 2000m		
Dimensions W x D x H	245 x 130 x 122 mm 9.6" x 5.1" x 4.8"	295 x 175 x 175 mm 11.6" x 6.9" x 6.9"	430 x 272 x 228 mm 16.9" x 10.7" x 9"
Weight Kg (lb.)	5 (11)	10 (22)	20 (44)

**Controller Functions**

Controller Type	A	B	C
<b>Voltage</b>	230V <sub>AC</sub> 50Hz		
<b>Auto Transfer</b>	Auto transfer & auto recovery	Auto transfer auto recovery, auto transfer no auto recovery, power grid generator	
<b>Manual Transfer</b>	Manual main power, manual back-up power, manual OFF		
<b>Isolation Lock</b>	Off position has an isolation function and can also be padlocked		
<b>Generator Control</b>	-	Generator start and stop	
<b>Fire Linkage</b>	-	Passive fire linkage signal switches off the switch with a N/O feedback contact	
<b>Display Mode</b>	Mechanical indication: device On/OFF, operating mode LED: device ON/OFF status, power status		Mechanical indication: device On/OFF, operating mode LED: device ON/OFF status, power status LCD: device ON/OFF status, power status, data setting
<b>Settings Mode</b>	-		Key press operation: set working mode, low voltage value, delay time, auto transfer mode, etc.
<b>Power Monitoring</b>	Phase voltage missing	ABC three phase over-voltage 265V ABC three phase low-voltage 187V ABC three phase voltage missing	ABC three phase over-voltage (240 – 290V adjustable) ABC three phase low-voltage (150 – 200V adjustable) ABC three phase voltage missing
<b>Delay Time (adjustable)</b>	-		Transfer: 0 – 300s Recovery: 0 – 300s Gen start/stop: 0 – 300s
<b>Mounting Type</b>	Integrated mounting		