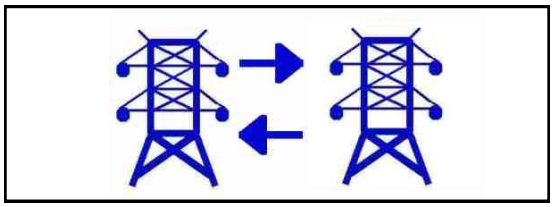
Automatic Transfer Switch. (ATS)

Three Phase UVR Controlled. Mains-Mains

OVER VIEW

- **Load transfer control for critical loads**
- **Mechanically & electrically interlocked contactor pair or ACB's**
- **Auto / Test key switch**
- **3 Phase Primary supply voltage monitoring**
- **Single phase secondary supply monitoring**
- **Configurable timers**
- **Robust mild steel enclosure**
- **Bottom entry gland plate**
- **Panel status indicated by LED Lamps**



DESCRIPTION & FUNCTION

The Blandon Systems Mains—Mains ATS panel is used where a critical load needs to be covered by two separate & independent power feeds. The panel finds uses in applications that require a reliable & secure power source.

The Blandon Systems ATS panel monitors the primary Mains (Utility) supply and will switch to the secondary supply if the primary supply should fail, or fall outside preset limits. On return of the primary Mains (Utility) supply the ATS panel will monitor it to ensure it is stable and then transfer the load from the secondary supply back to the primary supply.

A phase failure relay is used for primary Mains (Utility) voltage monitoring and offers Under and Over voltage protection as well as phase sequence. The panel uses two timers. Timer one is used for the primary Mains (Utility) restoration setting, and controls the time period the primary Mains (Utility) supply has to be healthy before engaging the primary Mains contactor. Timer two controls the secondary supply loading period.

A two position key switch is used for control. In the AUTO position all operations are automatic with the panel switching between the two supplies when there is a failure of the primary Mains (Utility) supply. The second position TEST simulates a primary supply failure. On switching to the TEST position, the load will be removed from the primary Mains (Utility) supply and switched to the secondary supply. Switching back to AUTO will switch the load back to the primary Mains (Utility) supply.

To prevent unauthorised use the key switch is removable in the Auto position only. This allows the system to be left in the automatic mode, with only authorised personal issued with a key.

DIMENSIONS

Amps (AC1)	Enclosure Size* HxWxD (mm)
30A	300 x 300 x 150
40A, 60A , 100A	400 x 300 x 200
125A	500 x 400 x 200
160A	600 x 600 x250
200A - 275A	800 x 600 x 250
315A - 400A	1000 x 800 x 300
500A - 800A	1200 x 800 x 400
1000A	1800 x 1000 x 400
1250A Plus	TBA

* Certain options may require a larger panel size.

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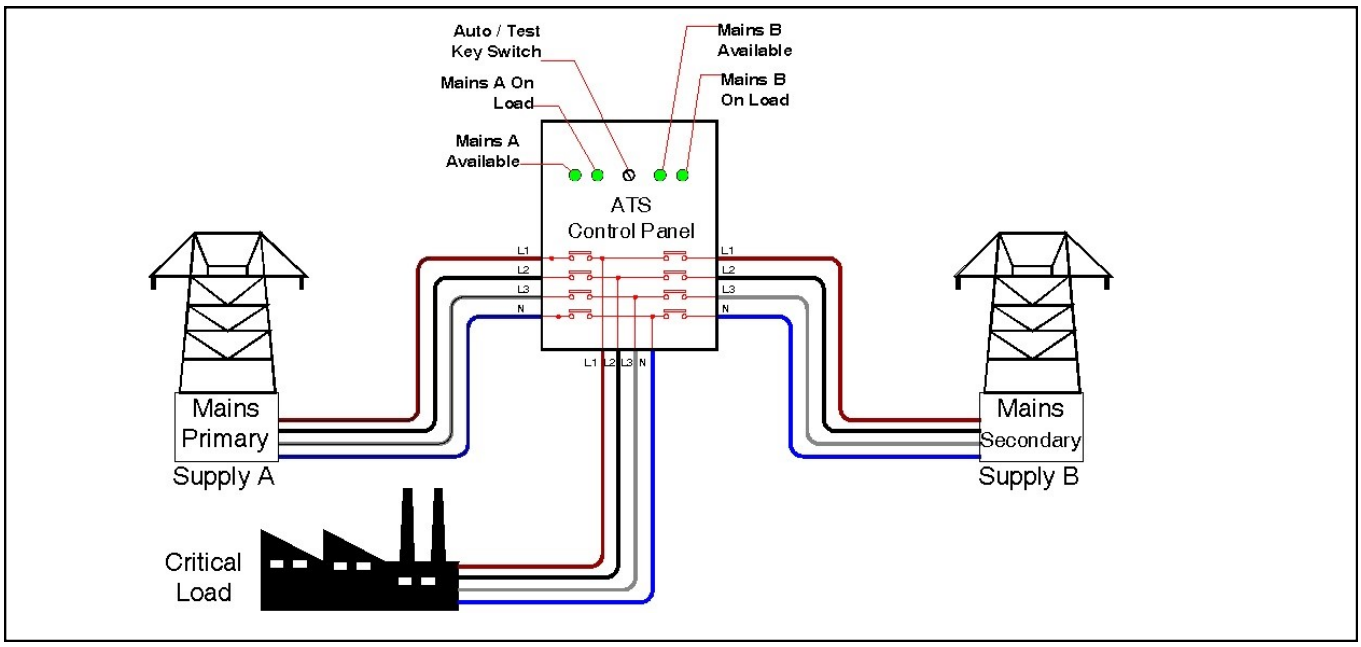
SPECIFICATION

Contactors / ACB's:	Four Pole
	Rated for AC1 operation
Led Indicators:	
Primary Supply (Mains A)	Available & On Load
Secondary Supply (Mains B)	Available & On Load
Sensing Relay (Primary Mains Utility):	3 Phase & N
Phase sequence:	Yes
Under voltage adjustment (L—N):	173—219 Vac
Over voltage adjustment (L—N):	242— 268 Vac
Primary Mains restoration time (Multi delay timer):	0.1sec—10 days
Secondary supply loading time (Multi delay timer):	time 0.1 sec—10 days
Switch modes:	2 position Auto & Test
Auto:	Load switches automatically
	Key removable in AUTO only
Test:	Load switches to secondary supply

TYPICAL LAYOUT



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