

Havells On-Load By-Pass Switch connects normal supply to the loads in case stabilized source fails. In fact, it By-passes the UPS/Servo Stabilizer in case of their failure and provides a means of connecting alternate supply to the load. The switch also ensures isolation of the up-stream and down-stream circuit.

Range :

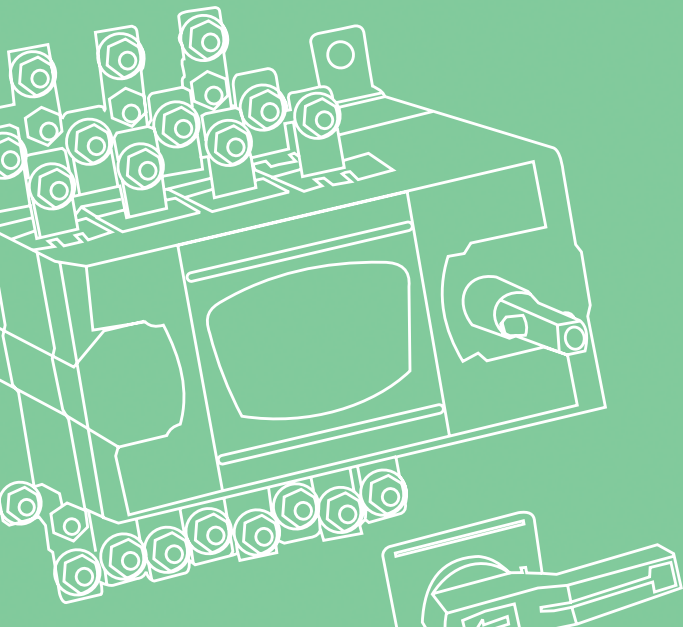
In current ratings of 63A-100A, in Four Pole execution.

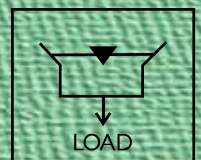
Specification :

IEC:60947-1&3 / IS:13947-1&3.

Features :

- Robust and reliable mechanism provides total disconnection.
- Quick make and break operation, independent of the operating speed enables the switches to open and close under stringent conditions, namely AC23A utilizations.
- The switch housing is made of Nylon 66 FR Grade, which has excellent mechanical, di-electric and thermal properties.





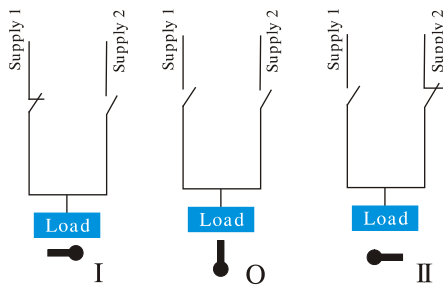
Application

The By-pass switches are designed to meet customer specific needs particularly in IT related industries where UPS and Servo stabilizers provide main source of supply. In the event of an emergency, normal supply can be made available to the services without interrupting any installation and at the same time providing time for maintenance of UPS systems without causing break down of services.

Operation

The By-pass Switch is operated manually with handle. It provides 3 stable positions namely :

- 0 Loads are open circuited
- I Loads are connected to stabilized supply
- II Loads are connected to the normal supply

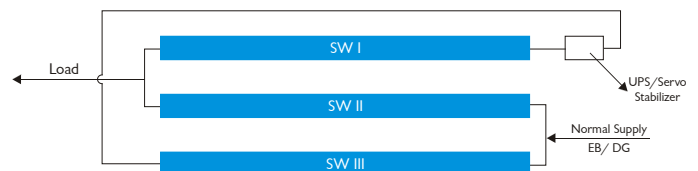


Single Line Diagram

At 'O' position, all the contacts of the three disconnectors are open and thereby provide isolation. At 'I' position, disconnectors No.I and III are closed and disconnector II is open. Hence stabilized supply is connected to the load. At 'II' position only disconnector No.II is closed and I & III are open. Hence bypassing the UPS and connecting the load directly to normal supply.

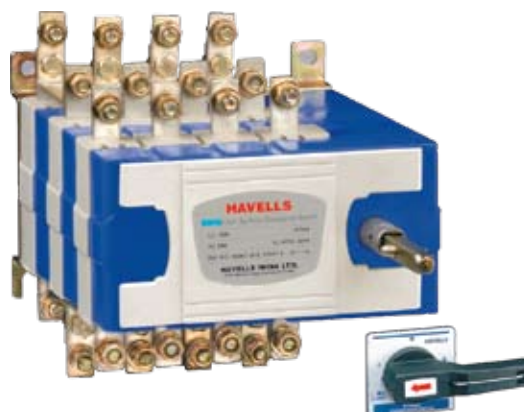
Auxilliary contact :

Auxilliary contacts having 1 NO.NC or 2 NO.NC configuration can ben provided for indication and signaling purposes.



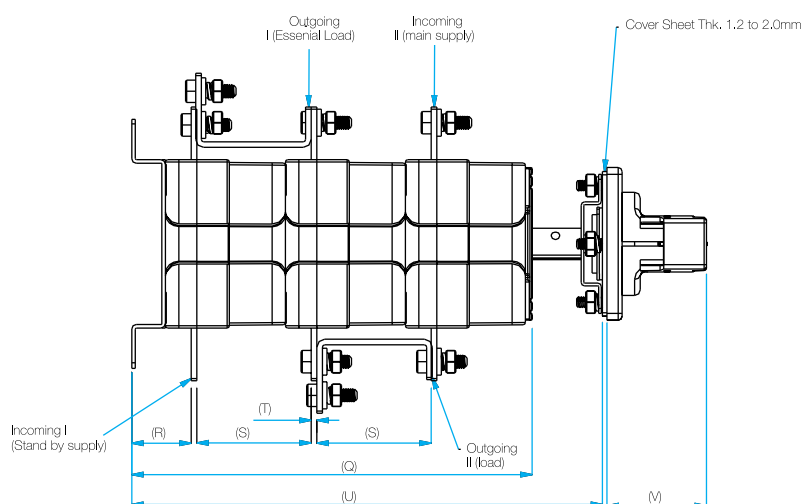
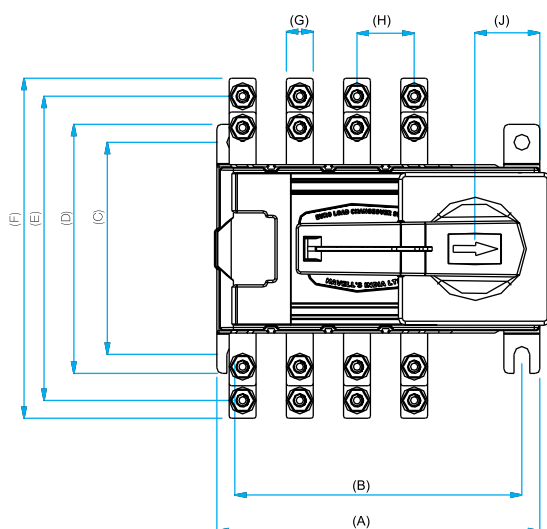
Technical Information - Size 00

Rated Current at 400C lth	A	63	100
Rated Insulation Voltage Ui	V	1000	1000
Rate Operational Voltage Ue	V	415	415
Rated impulse withstand voltage (Uimp)	kV	8	8
Rated Short Circuit Current with fuse	kA RMS	80	80
Making Capacity 415V, AC 23A PF=0.30	A	630	1000
Braking Capacity 415V, AC 23A PF=0.30	A	504	800
Mechanical Durability (No. of Operations)		10000	10000
Electrical Durability (No. of Operations)		1500	1500
Terminal Connection			
Aluminium Cable / Busbar Cross-section	mm ²	25	50
Copper Cable / Busbar Cross-section	mm ²	16	35



Ordering Information

Frame Size	Current Rating(A)	Open Execution
Size 00	063	IHCBFO0063
Size 00	100	IHCBFO0100



Current (A)	A	B	C	D	E	F	G	H	J	Q	R	S	T	U	V
Size 63A	144	128	94.5	111	120.5	136.5	12	25.5	29	178.5	26.5	51	2.5	210	44
Size 100A	144	128	94.5	111	134.5	150.5	12	25.5	29	178.5	26.5	51	2.5	210	44