Euroload Changeover Switches find a wide application scope wherever the reliability of electrical supply from the utilities is low and are used in lighting/motor circuits wherever continuity of supply is necessary, for switching to an alternative source from main supply and vice versa. They are switch disconnectors with independent manual operation capable of making, carrying and breaking currents under normal circuit conditions which may include operating overload conditions and also carrying currents under specified abnormal circuit conditions such as those of short circuit for a specified time. These switches are modular in construction, compact in size and suitable for stringent utilization category AC-23A/B.

# Range:

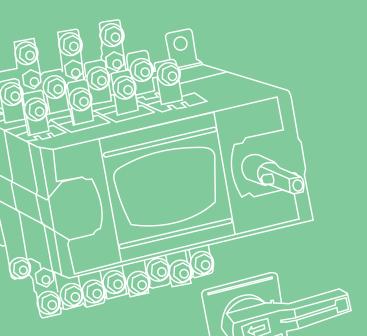
40A to 3150A in 7 frame sizes in 4 Pole

# Specifications :

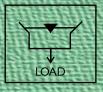
IS13947-1 & 3 / IEC 60947-1 & 3.

# Features :

- Compact size, Quick make & Quick Break mechanism.
- High electrical & mechanical endurance.
- Enclosed housing to avoid dust ingress.
- Double break contacts per pole.
- Load and Line reversibility.
- Provision of Phase seperators, add-on auxiliary switch
- Door interlock and padlock facility, telescopic operating shaft.
- Extended outgoing terminals.







### Construction

Euroload Changeover switch has unique modular construction. The module comprises of two load switch disconnectors coupled together and mechanically interlocked with a common outgoing and operable by a single handle having I-O-II position.

The switching mechanism is quick make, quick break type

independent of the speed of the operation. There are four breaks per pole thereby resulting into faster quenching of arc. The load and line can be connected on either side by virtue of isolation on both the sides. The entire switching mechanism alongwith the fixed and moving contact assembly are housed in a nylon 66 FR grade, moulded frame/cover, having high dielectric strength & thermal withstand capacity.

#### Contact Mechanism

The contact mechanism is knife blade type with self cleaning action during operation. The fixed contact terminals in each phase have separate main and arcing contacts. The moving contact assembly has four sets of contacts on moving carrier and the entire assembly rests on three guides on moving carrier itself, which assists in its true movement during making and breaking.

The moving contact mates with the fixed contact by slide movement of the moving contact assembly. The contact is first made with the arcing contact and thereafter with the main contact. During breaking, the arc formation is across the arcing contacts thereby protecting the main contacts which results into enhanced life of the switch. The arc is effectively quenched & confined in arc barrier in each phase.

The switches can be mounted inside a panel either in horizontal or vertical mode without any effect on the performance.

### Operating Mechanism

The operating mechanism consists of single side fron operated handle which drives the spring assisted toggle mechanism, intum operating the switch. Position indication provided on front of switch, i.e. on the operating shaft.

In position 'I', supply I (Main) is connected to the load, supply II is off.

In position 'O', supply I & II are both disconnected from the load.

In position 'II', supply II (Standby) is connected to the load, supply I is off.

Hence in none of the cases, supply I & II are connected simultaneously.





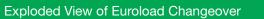


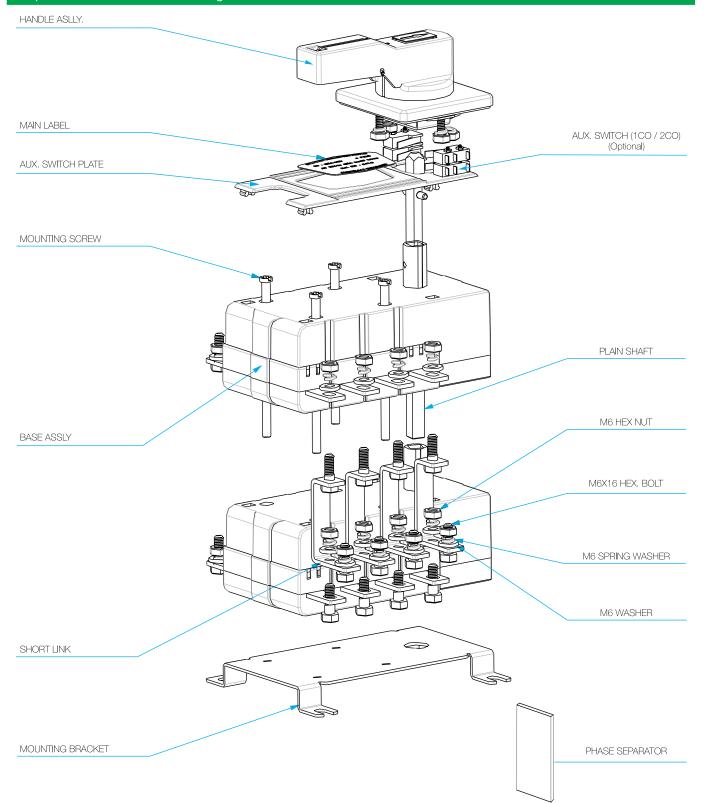


# Technical Information



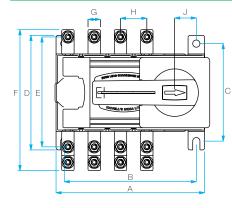
Frame Size			Size 00						
Catalogue No.			IHCNFO0040	IHCNF00063	IHCNF00080	IHCNF00100			
Rated operated Current at 40°C	l_	А	40	63	80	100			
Nos. of Poles	0		4	4	4	4			
Rated Operational Voltage	Ue	V	415	415	415	415			
Rated Insulation Voltage	U,	V	1000	1000	1000	1000			
Rated Impulse Voltage	U <sub>imp.</sub>	kV	8	8	8	8			
Rated Frequency		Hz	50	50	50	50			
Pollution Degree			3	3	3	3			
Design temp./ Ambient Temp. De	g. C		40	40	40	40			
Rated Thermal Current		А	40	63	80	100			
Rated Enclosed Thermal Current		А	40	63	80	100			
Rated Current	415V ac								
AC21A/ B		А	40 / 40	40 / 40 63 / 63 8		100 / 100			
AC22A/ B		А	40 / 40	63 / 63	80 / 80	100 / 100			
AC23A/ B		А	40 / 40	63 / 63	80 / 80	100 / 100			
Rated Motor Power	r Power 415V ac		15	15 20		25			
Making Capacity AC23A	415V	А	400	630	800	1000			
Breaking Capacity AC23A	/ AC23A 415V		320	504	640	800			
Conditional Short ckt current	415V ac	KA <sub>ms</sub>	80	80 80		80			
Fuse Ratings gG		А	40	63	80	100			
Rated Short Time Withstand									
Current for 1 Sec. rms value		KA <sub>ms</sub>	5	5	5	5			
Mechanical Endurance	opers.		10000	10000	10000	10000			
Electrical Endurance	opers.		1500	1500	1500	1500			
Min. Cu cablesection	Sq.mm		10	16	25	35			
Min. Al. cablesection	Sq.mm		16	25	35	50			
Terminal Bolt Size Metric thread diameter x length		mm		M6	X 16				
Overall Dimensions H X W X D	136.5 X 144 X 158								
Weight Open Execution			1.5	1.5	1.6	1.6			
In Enclosure		kg.	4.5	4.5	4.6	4.6			

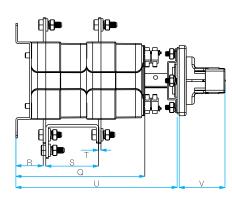


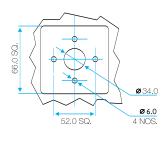


Size 00		
Current Rating (A)	Open Execution Cat. No.	In Enclosure Cat. No.
040	IHCNFO0040	IHCNFE0040
063	IHCNF00063	IHCNFE0063
080	IHCNFO0080	IHCNFE0080
100	IHCNFO0100	IHCNFE0100

# Dimensions (in mm) - Open Execution

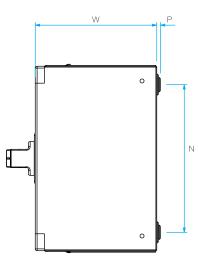


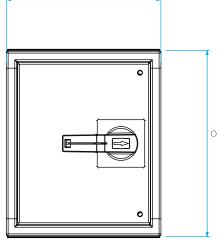


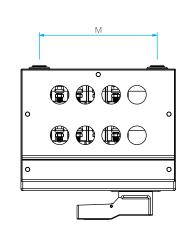


Current (A)	А	В	С	D	Е	F	G	Н	J	Q	R	S	Т	U	V
040A	144	128	94.5	111.0	96.5	126.5	12.0	25.5	21.0	125.0	26.5	51.0	2.5	156.0	44.0
063A	144	128	94.5	111.0	96.5	126.5	12.0	25.5	21.0	125.0	26.5	51.0	2.5	156.0	44.0
080A	144	128	94.5	111.0	106.5	136.5	12.0	25.5	21.0	125.0	26.5	51.0	2.5	156.0	44.0
100A	144	128	94.5	111.0	106.5	136.5	12.0	25.5	21.0	125.0	26.5	51.0	2.5	156.0	44.0

# Dimensions (in mm) - in Enclosure







Current (A)	Cat No.	L	М	Ν	0	Р	W
040A	IHCNFE0040	210	160	200	256	5	165
063A	IHCNFE0063	210	160	200	256	5	165
080A	IHCNFE0080	210	160	200	256	5	165
100A	IHCNFE0100	210	160	200	256	5	165