

# ISOLATORS-SWITCH Series

## ENCLOSED CHANGE-OVER SWITCHES I/O/II 16A-160A



### VERSIONS

	Thermoplastic version
	Aluminium version
	Stainless steel version

### REFERENCE STANDARDS

<p><b>EN 60947-3</b> Low voltage switchgear and controlgear. Part 3: switches, disconnectors, switch-disconnectors and fuse-combination unit.</p>
<p><b>EN 60529</b> Degrees of protection provided by enclosure.</p>

### TECHNICAL CHARACTERISTICS

Polarity:	<b>3P-3P+N</b>
Rated current:	<b>16A-25A-32A-40A-63A 80A-100A-125A-160A</b>
Protection degree:	<b>IP65</b>
Operating ambient temperature according to the reference standard:	<b>-5°C +40°C</b>
Min-Max. operating ambient temperature:	<b>-25°C +60°C</b>
Material:	<b>Thermoplastic Die-cast aluminium Stainless steel 304L (316L stainless steel on request)</b>
IK degree:	<b>IK08 Thermoplastic IK10 Aluminium/Stainless Steel</b>
Glow wire test:	<b>650°C (Thermoplastic)</b>
Colour:	<b>Grey RAL7035 (Thermoplastic) Grey RAL7015 (Aluminium)</b>

3P+N with late break early make neutral pole.

## ISOLATORS-TP Series (Thermoplastic)

### BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Limited Resistance	Resistant

### CABLE INLETS

Thermoplastic insulated enclosure 3P - 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
				Top	Bottom	Rear
4	16-25-32-40	3P - 3P+N	210x155x107	Top	2xM32	Knock-outs
				Bottom	2xM32	Knock-outs
				Rear	-	Blank side (*)
5	63-80-100	3P - 3P+N	308x228x128	Top	-	Blank side (*)
				Bottom	-	Blank side (*)
				Rear	-	Blank side (*)
6	125-160	3P - 3P+N	338x308x128	Top	-	Blank side (*)
				Bottom	-	Blank side (*)
				Rear	-	Blank side (*)

(\*) Perforated or threaded entries on request.

## ISOLATORS-AL Series (Aluminium)

### BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Resistant	Resistant

### CABLE INLETS

Aluminium enclosure 3P - 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
				Top	Bottom	Rear
2	16-25-32-40	3P - 3P+N	210x155x107	Top	2xM32	Threaded entries
				Bottom	2xM32	Threaded entries
				Rear	-	Blank side (*)
3	63-80-100	3P - 3P+N	315x264x122	Top	-	Blank side (*)
				Bottom	-	Blank side (*)
				Rear	-	Blank side (*)
4	125-160	3P - 3P+N	410x315x128	Top	-	Blank side (*)
				Bottom	-	Blank side (*)
				Rear	-	Blank side (*)

(\*) Perforated or threaded entries on request.

# ISOLATORS-SWITCH Series

## ISOLATORS-INOX Series (Stainless steel)

### BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	Rayons UV
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

### CABLE INLETS

Stainless steel enclosure 3P - 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
3	16-25-32-40 63-80-100	3P - 3P+N	306x226x115	Top	-	Blank side
				Bottom	-	Blank side
				Rear	-	Blank side
4	125-160	3P - 3P+N	412x312x115	Top	-	Blank side
				Bottom	-	Blank side
				Rear	-	Blank side

Perforated or threaded entries on request.

### TECHNICAL DATA SWITCH DISCONNECTORS 3P - 3P+N

		16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	<b>Ui</b>	VAC	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	<b>Uimp</b>	kV	8	8	8	8	8	8	8	8		
Thermal current	<b>Ith/lthe</b>	A	16	25	32	40	63	80	100	125	160	
Rated operational current - <b>Ie</b>	<b>AC21A</b> Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	63	160	80	125	160
	<b>AC22A</b> Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125	160
		500V	A	16	25	32	40	63	160	80	125	160
		690V	A	16	25	32	40	40	40	40	125	160
	<b>AC23A</b> Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	63	63	125	125
		690V	A	16	25	25	25	32	32	32	100	100
Rated short time withstand current	<b>Icw (1s)</b>	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
Conditional short circuit current	<b>KAeff</b>		50	50	50	50	50	30	50	50		
Associate fuse size for conditional short circuit current - Type gG		A	16	25	32	40	63	80	100	125	125	
Flexible wire		mm <sup>2</sup>	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	
Rigid wire		mm <sup>2</sup>	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70	

### APPLICATION EXAMPLES

