

# ISOLATORS-TP Series

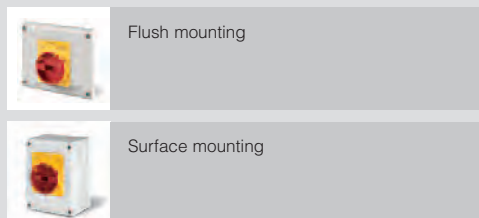
## THERMOPLASTIC INSULATED ENCLOSURE 16A-160A



## REFERENCE STANDARDS

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

## VERSIONS



## TECHNICAL CHARACTERISTICS

Polarity:	<b>1P-2P-3P-3P+N-4P-6P-8P</b>
Rated current:	<b>16A*-20A-25A*-32A-40A-63A-80A-100A-125A-160A</b>
Protection degree:	<b>IP55 flush mounting version IP65 surface mounting version</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>Engineering plastic</b>
IK degree:	<b>IK08</b>
Glow wire test:	<b>650°C</b>
Colour:	<b>Grey RAL7035</b>
Insulation class:	<b>Class II (double insulation) <input type="checkbox"/></b>

3P+N with late break early make neutral pole.  
 Equipped with door locking.  
 Padlockable handle.  
 \* Only for 6 and 8 poles.

## 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 1, 2, 3, 4 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
				Top	Bottom	Rear
1	20-32-40	1	120x82x69	Top	1xM20+1xM25	Knock-outs
				Bottom	1xM20+1xM25	Knock-outs
				Rear	2xM20	Knock-outs
2	20-32-40	2-3-4	125x136x84(*)	Top	3xM20/M25	Knock-outs
				Bottom	3xM20/M25	Knock-outs
				Right	2xM20	Knock-outs
				Left	2xM20	Knock-outs
				Rear	2xM20/M25	Knock-outs
				Top	1xM20+1xM25	Knock-outs
3	20-32-40	2-3-4	150x105x82	Bottom	1xM20+1xM25	Knock-outs
				Rear	1xM20+1xM25	Knock-outs
				Top	2xM32	Knock-outs
4	63-80-100	2-3-4	210x155x107	Bottom	2xM32	Knock-outs
				Rear	-	Blank side (*)
				Top	-	Blank side (*)
5	125	3-4	308x228x128	Bottom	-	Blank side (*)
				Rear	-	Blank side (*)
				Top	-	Blank side (*)
6	160	3-4	338x308x128	Bottom	-	Blank side (*)
				Rear	-	Blank side (*)
				Top	-	Blank side (*)

(\*) Omnia enclosure.

(\*) Perforated or threaded entries on request.

## CABLE INLETS

Thermoplastic insulated enclosure 6 and 8 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
				Top	Bottom	Rear
4	16-25-32-40	6-8	210x155x107	Top	2xM32	Knock-outs
				Bottom	2xM32	Knock-outs
				Rear	-	Blank side (*)
5	63-80-100	6-8	308x228x128	Top	-	Blank side (*)
				Bottom	-	Blank side (*)
				Rear	-	Blank side (*)
6	125-160	6-8	338x308x128	Top	-	Blank side (*)
				Bottom	-	Blank side (*)
				Rear	-	Blank side (*)

(\*) Perforated or threaded entries on request.

## APPLICATION EXAMPLES



# ISOLATORS-TP Series

## ■ TECHNICAL DATA SWITCH DISCONNECTORS 1 POLES

			20A	32A	40A	
Rated insulation voltage	<b>Ui</b>	VAC	250	250	250	
Rated impulse withstand voltage	<b>Uimp</b>	kV	4	4	4	
Thermal current	<b>Ith/Ithe</b>	A	20	32	40	
Rated operational current – Ie	<b>AC22A</b> Mixed resistive and inductive loads, including moderate overloads	250V	A	20	32	40
	<b>AC23A</b> Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	250V	A	16	20	25
Rated short time withstand current	<b>Icw</b> (1s)	A	480	480	480	
Conditional short circuit current	<b>Ip</b>	kAeff	10	10	10	
Associate fuse size for conditional short circuit current - Type gG		A	20	32	40	
Flexible wire		mm <sup>2</sup>	6	6	6	
Rigid wire		mm <sup>2</sup>	6	6	6	

## ■ TECHNICAL DATA SWITCH DISCONNECTORS 2P, 3P, 3P+N, 4P

			20A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	<b>Ui</b>	VAC	690	690	690	690	690	800	800	800		
Rated impulse withstand voltage	<b>Uimp</b>	kV	4	4	4	4	4	8	8	8		
Thermal current	<b>Ith/Ithe</b>	A	30	40	40	63	86	100	125	160		
Rated operational current – Ie	<b>AC21A</b> Resistive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160	
		500V	A	20	32	32	63	80	100	125	160	
		690V	A	20	32	32	63	80	100	125	160	
	<b>AC22A</b> Mixed resistive and inductive loads, including moderate overloads	415V	A	20	32	40	63	80	100	125	160	
		500V	A	20	32	32	63	80	100	125	160	
		690V	A	20	32	32	63	80	-	125	160	
	<b>AC23A</b> Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	415V	A	20	32	35	63	67	100	125	160	
		500V	A	20	25	25	40	67	-	125	125	
		690V	A	20	25	25	30	38	-	100	100	
	<b>AC23A</b> Rated operational power		415V	kW	9	15	18.5	33	37	46	55	69
	<b>AC3</b> Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)		415V	A	-	28.5	28.5	40	55	-	-	-
			690V	A	12	20	20	25	32	-	-	-
<b>DC22A</b> Mixed resistive and inductive loads, including moderate overloads		250V	A	25(*)	32(*)	32(*)	-	-	-	-	-	
		600V	A	10(*)	10(*)	10(*)	-	-	-	-	-	
Rated short time withstand current	<b>Icw</b> (1s)	A	400	400	400	1500	1500	1500	3000	3000		
Conditional short circuit current	<b>Ip</b>	kAeff	10	10	10	10	10	30	50	50		
Associate fuse size for conditional short circuit current - Type gG		A	20	32	40	63	80	100	125	125		
Flexible wire		mm <sup>2</sup>	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70		
Rigid wire		mm <sup>2</sup>	1.5-16	1.5-16	1.5-16	10-35	10-35	10-50	10-70	10-70		

(\*) Only 4P with 2+2 poles in series

## ■ TECHNICAL DATA SWITCH DISCONNECTORS 6 AND 8 POLES

			16A	25A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	<b>Ui</b>	VAC	800	800	800	800	800	800	800	800	800		
Rated impulse withstand voltage	<b>Uimp</b>	kV	8	8	8	8	8	8	8	8	8		
Thermal current	<b>Ith/Ithe</b>	A	16	25	32	40	63	80	100	125	160		
Rated operational current – Ie	<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	
	<b>AC23A</b> Rated operational power		415V	kW	7.5	11	15	18.5	35	37	46	55	69
	Rated short time withstand current	<b>Icw</b> (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000	
	Conditional short circuit current	<b>Ip</b>	kAeff	50	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		

### 4P SWITCH LINKING FOR DC APPLICATION

