

ISOLATORS-AL Series

ALUMINIUM ENCLOSURE - 16A-160A



VERSIONS



Surface mounting

REFERENCE STANDARDS

EN 60947-3

Low voltage switchgear and controlgear.
Part 3: switches, disconnectors, switch-disconnectors
and fuse-combination unit.

EN 60529

Degrees of protection provided by enclosure.

TECHNICAL CHARACTERISTICS

Polarity:	2P-3P-3P+N-4P-6P-8P
Rated current:	16A*-20A-25A*-32A-40A-63A 80A-100A-125A-160A
Protection degree:	IP65
Operating ambient temperature according to the reference standard:	-5°C +40°C
Min-Max. operating ambient temperature:	-25°C +60°C
Material:	Die-cast aluminium
IK degree:	IK10
Colour:	Grey RAL7015

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	Limited Resistance	Limited Resistance	Resistant	Limited Resistance	Limited Resistance	Resistant	Resistant	Resistant

CABLE INLETS

Aluminium enclosure 2, 3, 4 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
				Top	Bottom	Rear
1	20-32-40	2-3-4	150x105x82	1xM20+1xM25	1xM20+1xM25	Threaded entries
				-	-	Blank side (*)
				-	-	Blank side (*)
2	63-80-100	2-3-4	210x155x107	2xM32	2xM32	Threaded entries
				-	-	Blank side (*)
				-	-	Blank side (*)
3	125	3-4	315x264x122	-	-	Blank side (*)
				-	-	Blank side (*)
				-	-	Blank side (*)
4	160	3-4	410x315x128	-	-	Blank side (*)
				-	-	Blank side (*)
				-	-	Blank side (*)

(*) Perforated or threaded entries on request.

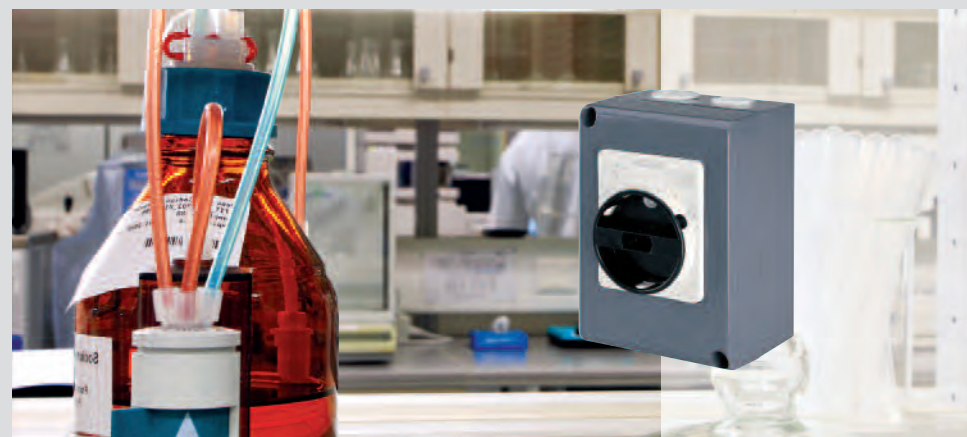
CABLE INLETS

Aluminium enclosure 6 and 8 poles

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
				Top	Bottom	Rear
2	16-25-32-40	6-8	210x155x107	2xM32	2xM32	Threaded entries
				-	-	Blank side (*)
				-	-	Blank side (*)
3	63-80-100	6-8	315x264x122	-	-	Blank side (*)
				-	-	Blank side (*)
				-	-	Blank side (*)
4	125-160	6-8	410x315x128	-	-	Blank side (*)
				-	-	Blank side (*)
				-	-	Blank side (*)

(*) Perforated or threaded entries on request.

APPLICATION EXAMPLES



ISOLATORS-AL Series

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

		20A	32A	40A	63A	80A	100A	125A	160A		
Rated insulation voltage	Ui	VAC	690	690	690	690	800	800	800		
Rated impulse withstand voltage	Uimp	kV	4	4	4	4	8	8	8		
Thermal current	Ith/Ithe	A	30	40	40	63	86	100	125		
Rated operational current – Ie	AC21A 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
	AC22A 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
	AC23A 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
	AC23A Rated operational power	415V	kW	9	15	18.5	33	37	46	55	69
	AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	400V	A	-	28.5	28.5	40	55	-	-	-
		690V	A	12	20	20	25	32	-	-	-
DC22A Mixed resistive and inductive loads, including moderate overloads	250V	A	25(*)	32(*)	32(*)	-	-	-	-	-	
	600V	A	10(*)	10(*)	10(*)	-	-	-	-	-	
Rated short time withstand current	Icw (1s)	A	400	400	400	1500	1500	1500	3000	3000	
Conditional short circuit current	Ip	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 ²	1.5-10	1.5-10	1.5-10	10-35	10-35	10-50	10-70	10-70	
Rigid wire		mm ²	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	Ui	VAC	800	800	800	800	800	800	800	800	
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8	8	8	8	
Thermal current	Ith/Ithe	A	16	25	32	40	63	80	100	125	
Rated operational current – Ie	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125
		500V	A	16	25	32	40	63	160	80	125
		690V	A	16	25	32	40	63	160	80	125
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	160	80	125
		500V	A	16	25	32	40	63	160	80	125
		690V	A	16	25	32	40	40	40	40	125
	AC23A Switching of motor loads or other highly inductive loads (3 phase / 3 pole)	415V	A	16	25	32	40	63	80	100	125
		500V	A	16	25	32	40	63	63	63	125
		690V	A	16	25	25	32	32	32	100	100
	AC23A Rated operational power	415V	kW	7.5	11	15	18.5	35	37	46	55
	Rated short time withstand current	Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000
	Conditional short circuit current	Ip	KAeff	50	50	50	50	50	50	30	50
Associate fuse size for conditional short circuit current - Type gG		A	16	25	32	40	63	80	100	125	
Flexible wire		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	
Rigid wire		mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	

4P SWITCH LINKING FOR DC APPLICATION

