



ISOLATORS SERIES

Enclosed change-over switches I/O/II



■ ENCLOSED CHANGE-OVER SWITCHES I/O/II 3P, 3P+N - 16A ÷ 160A



	Poles	IP degree	☐	THERMOPLASTIC	ALUMINIUM	STAINLESS STEEL
16A	3P	IP65	1/5	590.GE1603-C	590.HGE1603-C	590.SGE1603-C
	3P+N			590.GE1605-C	590.HGE1605-C	590.SGE1605-C
25A	3P	IP65	1/5	590.GE2503-C	590.HGE2503-C	590.SGE2503-C
	3P+N			590.GE2505-C	590.HGE2505-C	590.SGE2505-C
32A	3P	IP65	1/5	590.GE3203-C	590.HGE3203-C	590.SGE3203-C
	3P+N			590.GE3205-C	590.HGE3205-C	590.SGE3205-C
40A	3P	IP65	1/5	590.GE4003-C	590.HGE4003-C	590.SGE4003-C
	3P+N			590.GE4005-C	590.HGE4005-C	590.SGE4005-C
63A	3P	IP65(*)	1/5	590.GE6303-C	590.HGE6303-C	590.SGE6303-C
	3P+N			590.GE6305-C	590.HGE6305-C	590.SGE6305-C
80A	3P	IP65(*)	1/5	590.GE8003-C	590.HGE8003-C	590.SGE8003-C
	3P+N			590.GE8005-C	590.HGE8005-C	590.SGE8005-C
100A	3P	IP65(*)	1/5	590.GE10003-C	590.HGE10003-C	590.SGE10003-C
	3P+N			590.GE10005-C	590.HGE10005-C	590.SGE10005-C
125A	3P	IP65(*)	1	590.GE12503-C	590.HGE12503-C	590.SGE12503-C
	3P+N			590.GE12505-C	590.HGE12505-C	590.SGE12505-C
160A	3P	IP65(*)	1	590.GE16003-C	590.HGE16003-C	590.SGE16003-C
	3P+N			590.GE16005-C	590.HGE16005-C	590.SGE16005-C

☐ Pack Quantity.

(*) IP55 for thermoplastic versions.

■ AUXILIARY CONTACT CHANGE-OVER SWITCHES - 16A ÷ 160A



Description	☐	
1 NO/NC contact	1/10	590.PL005

☐ Pack Quantity.

- Max 2 auxiliary contacts.

- Break before main contacts.

ISOLATORS Series

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



VERSIONS



Thermoplastic version



Aluminium version



Stainless steel version

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:	3P-3P+N
Rated current:	16A-25A-32A-40A-63A 80A-100A-125A-160A
Protection degree:	IP65 IP55 (thermoplastic 63A-160A)
Operating temperature according to the reference standard:	-5°C +40°C
Min-Max. operating temperature:	-25°C +60°C
Material:	Thermoplastic Die-cast aluminium Stainless steel 304L (316L stainless steel on request)
IK degree:	IK08 Thermoplastic IK10 Aluminium/Stainless Steel
Glow wire test:	650°C (Thermoplastic)
Colour:	Grey RAL7035 (Thermoplastic) Grey RAL7015 (Aluminium)

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

For specific substances please contact our technical service.

■ CABLE INLETS

Thermoplastic insulated enclosure 3P - 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
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

For specific substances please contact our technical service.

■ CABLE INLETS

Aluminium enclosure 3P - 3P+N

Size	Rated current (A)	Nr of poles	Enclosure dimensions	Cable entries		
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-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

For specific substances please contact our technical service.

■ CABLE INLETS

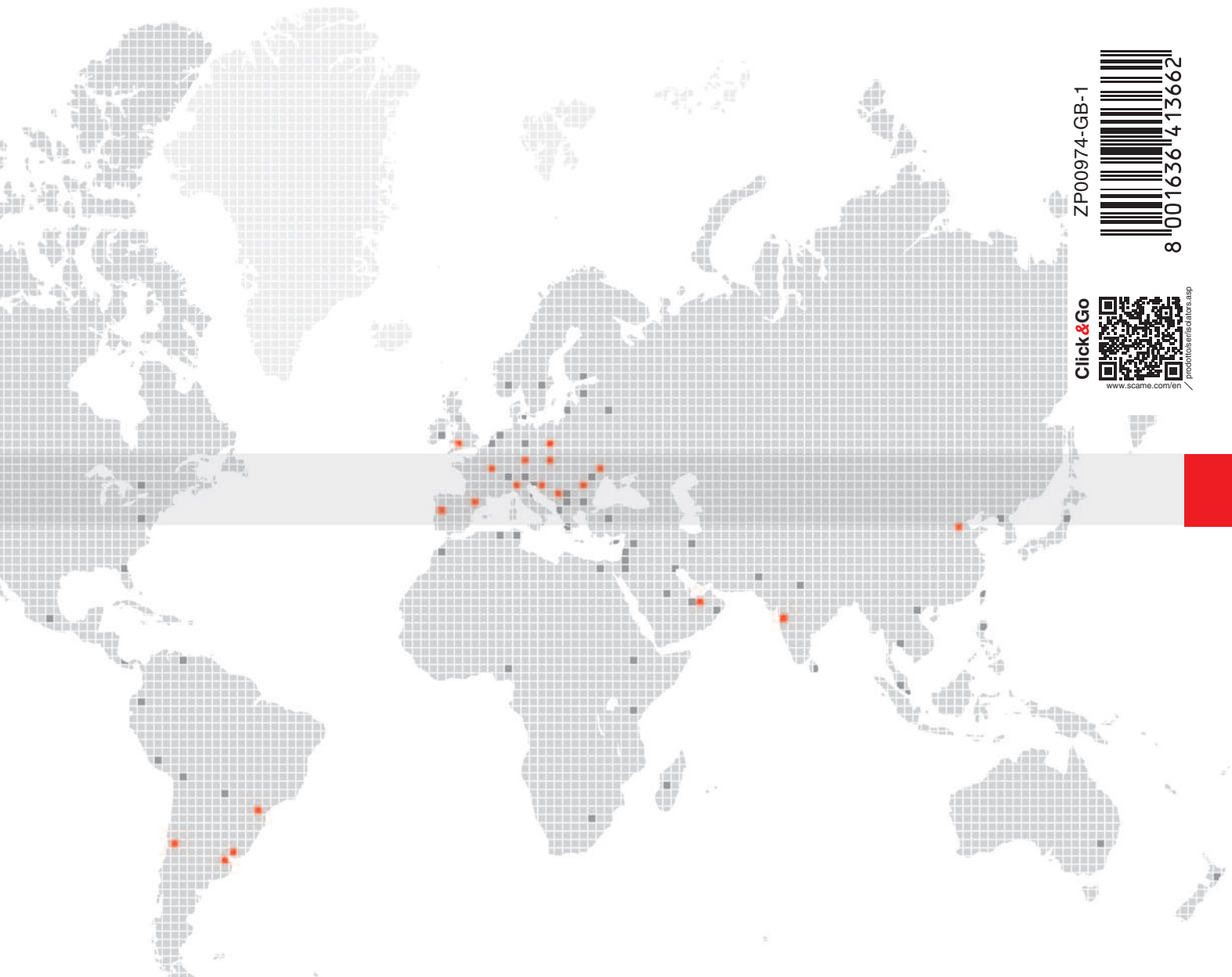
Stainless steel enclosure 3P - 3P+N

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		Ui	VAC	800	800	800	800	800	800	800	800	800
Rated impulse withstand voltage		Uimp	kV	8	8	8	8	8	8	8	8	8
Thermal current		Ith/lthe	A	16	25	32	40	63	80	100	125	160
Rated operational current - Ie	AC21A 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
	AC22A 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
	AC23A 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		Icw (1s)	A	1100	1100	1100	1100	1500	1500	1500	3000	3000
Conditional short circuit current			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 ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70
Rigid wire			mm ²	4-25	4-25	4-25	4-25	10-50	10-50	10-50	10-70	10-70



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