

70 RT HP



SWITCH DISCONNECTORS
IN PLASTIC BOX



The switch disconnectors in plastic boxes, which are available in control or emergency versions from 16 to 160A, are distinguished by the unique degree of protection that they offer: IP66/IP67/IP69, with plumbable plastic 1/4 turn screws, and plenty of space for wiring and cable winding.

SWITCH DISCONNECTORS
IN METAL BOX



Versions in metal boxes with IP66 degree of protection are made from painted aluminium alloy, an extremely durable solution which offers high levels of performance, even in heavy industry applications and particularly harsh conditions.

ATEX SWITCH DISCONNECTORS
IN METAL BOX



Versions in metal boxes feature ATEX surface-mounting rotary switch disconnectors from 16 to 100A; these are fully compliant with Directive 94/9/EC, which defines and regulates electrical systems for use in potentially explosive atmospheres.

70 RT HP - ROTARY ISOLATOR SWITCHES

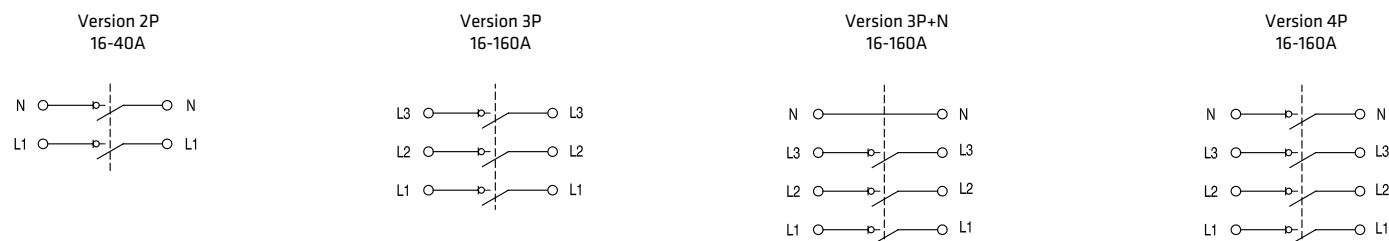
Isolator switches for continuous operation, in version for emergency or for control, assembled in boards and in watertight boxes. Complying with standard EN 60947-3.

Electrical data

Rated current				16A	25A	32A	40A	63A	80A	100	125	160
Rated insulation voltage Ui			VAC	690	690	690	690	690	690	1000	1000	1000
Rated impulse withstand voltage Uimp			kV	4	4	4	4	4	4	8	8	8
Thermal current Ith/Ithe			A	16	25	32	40	63	80	100	125	160
Rated operational current IEC	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	80	100	125	160
	AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125	160
		500V	A	16	25	32	40	63	80	100	125	160
	AC23A Switching of motor loads or other highly inductive loads (3 phases/3 poles)	415V	A	16	25	32	40	63	80	100	125	125
		500V	A	16	25	32	40	63	80	80	100	100
	AC3 Squirrel-cage motor: starting, switching off motor during running (3 phase / 3 pole)	415V	A	16	25	32	32	63	63	-	-	-
		500V	A	16	25	25	25	50	50	-	-	-
Rated short time withstand current Icw (1s)			A	160	250	320	400	630	800	2500	2500	2500
Conditional short circuit current		415V	FAeff	10	10	10	10	6	6	10	10	10
		500V		6	6	6	6	6	6	6	6	6
Associate fuse size for conditional short circuit current - Type gG			A	16	25	32	40	63	80	100	125	160
WIRING*												
Tightening torque			Nm	1				3		6		
Max. flexible wire			mm²	1 ÷ 10				2,5 ÷ 25		4 ÷ 70		
Max. rigid wire			mm²	1 ÷ 10				2,5 ÷ 25		4 ÷ 70		

* The surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

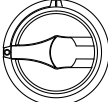
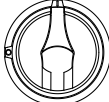
Wiring diagram



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

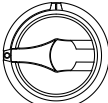
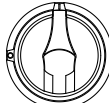
Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited resistance	Resistant	Not resistant	Limited resistance	Limited resistance	Not resistant	Not resistant	Resistenza limitata	Resistant	Resistant

Mechanical data - Surface mounting isolator in plastic boxes

In (A)		16	25	32	40	63	80	100	125	160
Poles	2P	x	x	x	x					
	3P	x	x	x	x	x	x	x	x	x
	3P+N	x	x	x	x	x	x	x	x	x
	4P	x	x	x	x	x	x	x	x	x
Degree of protection		IP66/IP67/IP69								
Impact resistance		IK08								
Protection against indirect contact		double insulation 								
Thermo-pressure with ball (°C)		125 (device); 80 (box)								
Glow Wire Test (°C)		960 (device); 650 (box)								
Range of temperature (°C)		-25; +60								
Housable auxiliary contacts		Max. 2 (1 per sides)						Max. 4* (2 per sides)		
Holes entry	Upper sides	2 x M20/M25				2 x M25/M32		-		
	Lower sides	2 x M20/M25				2 x M25/M32		-		
Knob position		Open - OFF position 		Close - ON position 		Open - OFF position 		Close - ON position 		

(*) For version 160A 4P the max number of auxiliary contact that can be housable is 1.

Mechanical data - Surface mounting isolator in metal boxes

In (A)		16	25	32	40	63	80	100	125	160
Poles	2P	x	x	x	x					
	3P	x	x	x	x	x	x	x	x	x
	3P+N	x	x	x	x	x	x	x	x	x
	4P	x	x	x	x	x	x	x	x	x
Degree of protection		IP66								
Impact resistance		IK10 (box); IK08 (knob)								
Thermo-pressure with ball (°C)		80 (knob)								
Glow Wire Test (°C)		650 (knob)								
Range of temperature (°C)		-25; +60								
Housable auxiliary contacts		Max. 2 (1 per sides)						Max. 4* (2 per sides)		
Holes entry	Upper sides	2 x M20	2 x M20			2 x M32		-		
	Lower sides	2 x M20	2 x M25			2 x M32		-		
Knob position		Open - OFF position 		Close - ON position 		Open - OFF position 		Close - ON position 		

(*) For version 160A 4P the max number of auxiliary contact that can be housable is 1.

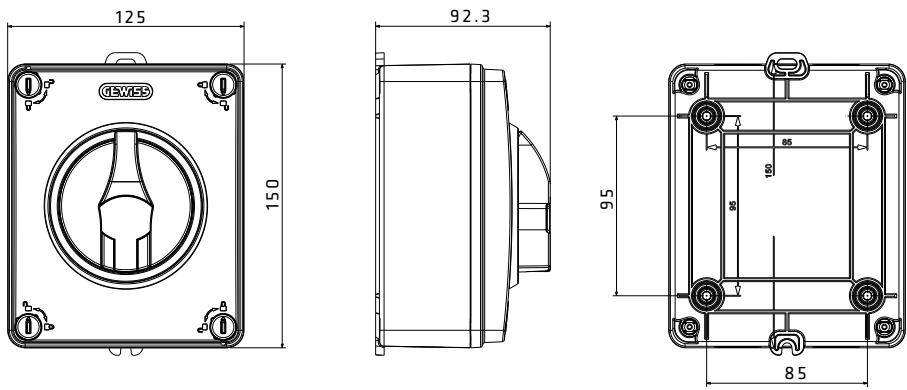
Auxiliary Contacts

TECHNICAL DATA	
Type: Auxiliary contacts NO or NC	Thermal curren in Air (Ith): 16A
IP Degree: IP20	Thermal curren in Boxes (Ithe): 10A
Range of temperature (°C): -25; +60	Rated insulation voltage (Ui): 400 V
Pollution Degree: 2	Rated impulse withstand voltage (Uimp): 4 kV
Thermo-pressure with ball (°C): 125	Category of uses AC15: 6A (230V)
Glow Wire Test (°C): 960	3A (380V)
Tightening torque: 0,8 Nm	Conditional short circuit current (Icc - 400 V): 1 kA
Range of wiring: 2 x 2,5 mm2 (MAX.) / 1 x 0,75 mm2 (MIN.)	Associate fuse size for conditional short circuit current - Type gG: 6A

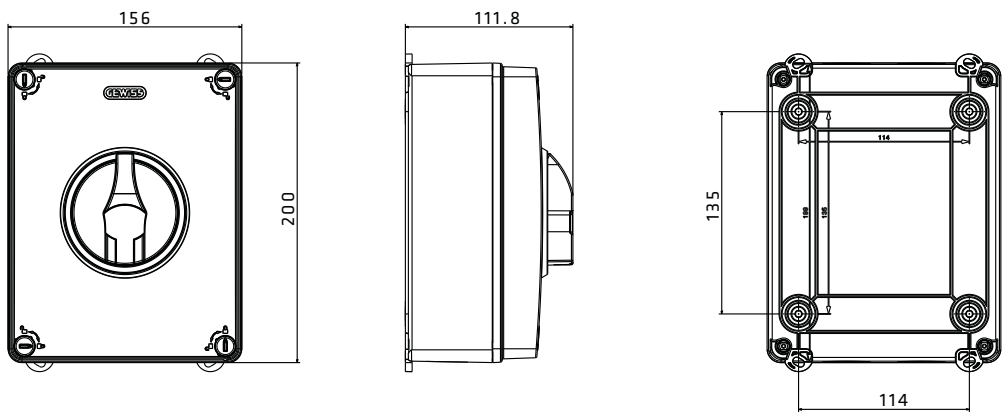
Dimension tables

SURFACE-MOUNTING ISOLATOR IN PLASTIC BOXES

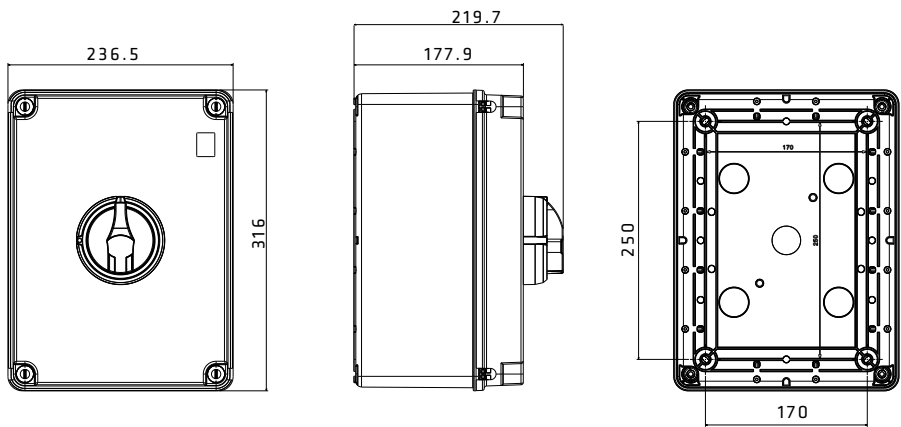
ISOLATOR 16 - 25 - 32 - 40A



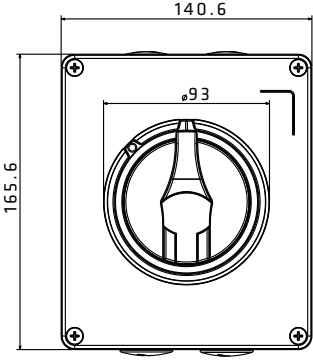
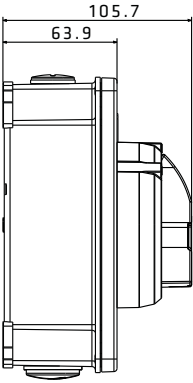
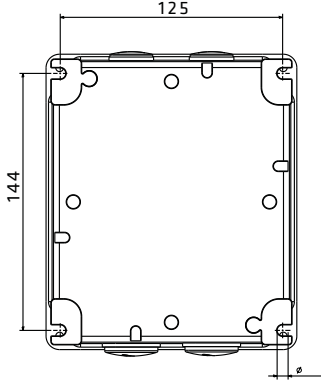
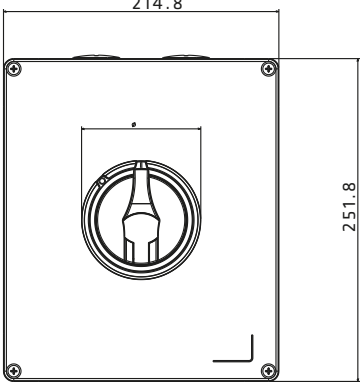
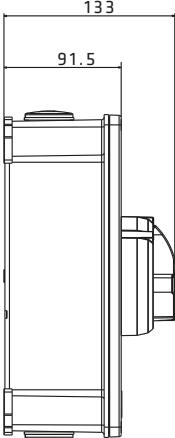
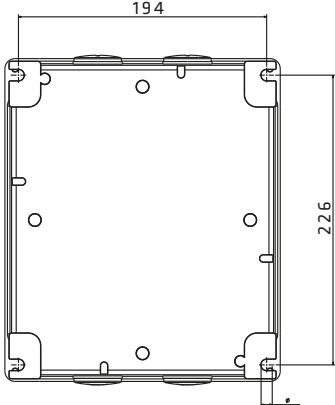
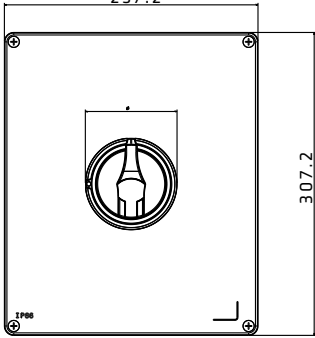
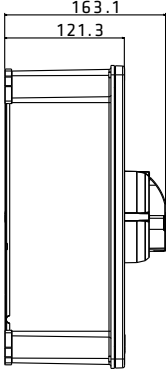
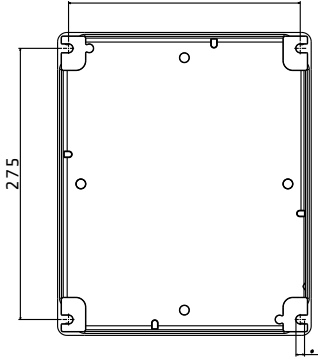
ISOLATOR 63 - 80A



ISOLATOR 100 - 125 - 160A



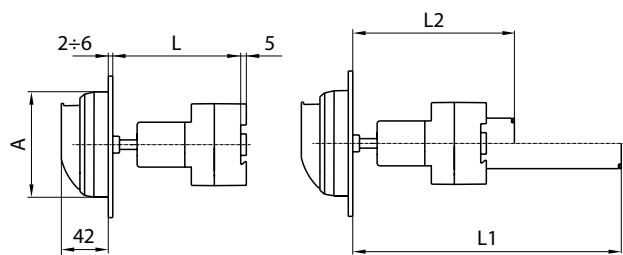
Dimension tables

SURFACE-MOUNTING ISOLATOR IN METALLIC BOXES			
ISOLATOR 16 - 25 - 32 - 40A			
			
ISOLATOR 63 - 80A			
			
ISOLATOR 100 - 125 - 160A			
			

XXX

Dimension tables

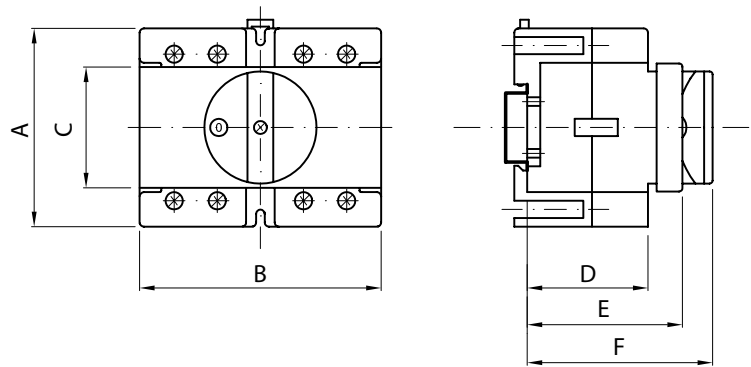
BOARD-MOUNTING ISOLATOR: DOOR-LOCKING VERSION



One-way switch	WITHOUT BRACKETS		WITH BRACKETS		A
	Supplied with L	Adjustable up to L*	L1 max length obtainable	L2 min length obtainable **	
16A - 32A	145	87	(145+160) 305	(87+30) 117	ø 94
63A - 80A	177	114	(117+160) 337	(114+30) 144	ø 94

* Position obtainable by cutting the shaft supplied.
** Position obtainable by cutting both the shaft supplied, and the brackets, in the points shown.

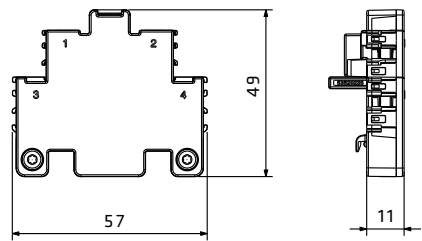
BOARD-MOUNTING ROTARY SWITCH: VERSION FOR ASSEMBLY ON DIN RAIL EN 50022



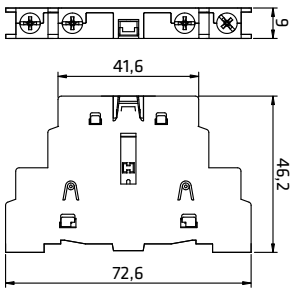
Tipo	A	B	C	D	E	F
16 - 32A	55	71 ●	45	37	53	68
63 A	73	89 ▲	45	44	56	68

★ Occupies 3 modules (17.5mm). ● Occupies 4 modules (17.5mm). ▲ Occupies 5 modules (17.5mm).

AUXILIARY CONTACT



For isolator 16 - 25 - 32 - 40 - 63 - 80A



For isolator 100 - 125 - 160A

Switch disconnectors for command and emergency in aluminium box painted in Grey Ral 7037, suitable for use in **ZONE 22(D)** with rated current of 16-32-63-100A.
Standard: EN 60947-3, EN 61241-0, EN60079-0, EN60079-31 - Dir. ATEX 94/9/CE.

Note: for the behaviour with chemical and atmospheric agents, contact SAT Customer Service (+ 39 035/946111).

SWITCH DISCONNECTORS FOR COMMAND AND EMERGENCY

