

70 RT HP

ROTARY ISOLATOR SWITCHES IN INSULATING BOX

Rotary isolator switches in control (with black knob) or emergency version (with red knob). Complying with EN 60947-3 standard.

Electrical data 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

Rated current IEC		16A	25A	32A	40A	63A	80A	100A	125A	160A
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
AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63	80	100	125
AC23A Switching of motor loads or other highly inductive loads (3 phases/3 poles)	415V	A	16	25	32	40	63	80	100	125
Rated short time withstand current Icw (1s)	A	160	250	320	400	630	800	2500	2500	2500
Conditional short circuit current (Icc)	415V 500V	kA	10 6	10 6	10 6	6	6	10	10	10
Associated fuse 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			

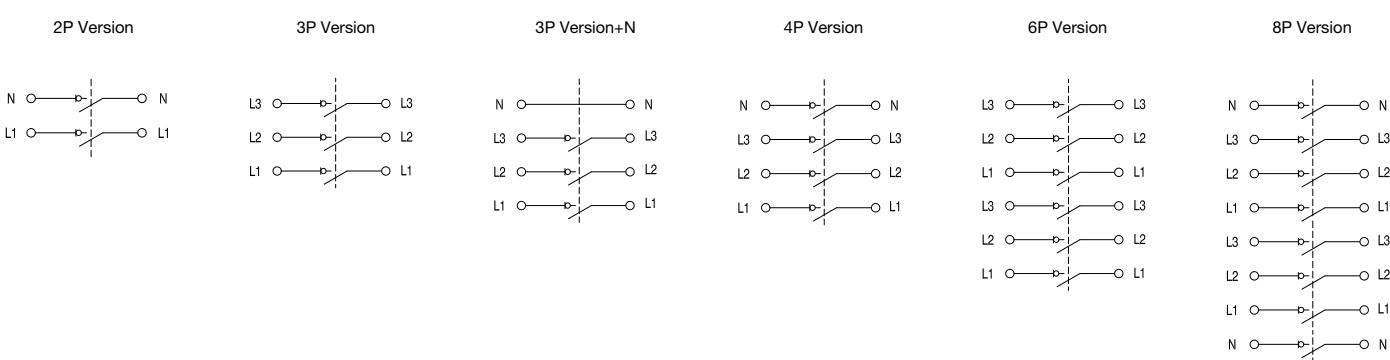
* The surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

Electrical data 16 A ÷ 100 A 6P, 8P

Rated current IEC		16A	25A	32A	40A	63A	100A
Rated insulation voltage Ui	VAC	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage Uimp	kV	8	8	8	8	8	8
Thermal current Ith/Ithe	A	16	25	32	40	63	100
Rated operational current IEC	AC21A Resistive loads, including moderate overloads	415V	A	16	25	32	40
AC22A Mixed resistive and inductive loads, including moderate overloads	415V	A	16	25	32	40	63
AC23A Switching of motor loads or other highly inductive loads (3 phases/3 poles)	415V	A	16	25	32	40	63
Conditional short circuit current (Icc)	415V	kA	10	10	10	10	10
Associated fuse for conditional short circuit current - Type gG	A	40	40	40	40	100	100
WIRING *							
Tightening torque	Nm		2		6		
Max. flexible wire	mm²		0,75 ÷ 16		4 ÷ 70		
Max. rigid wire	mm²		0,75 ÷ 16		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.

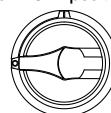
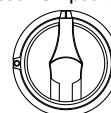
Wiring diagram



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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

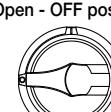
Mechanical data 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

In (A)	16	25	32	40	63	80	100	125	160
Poles	2P	x	x	x					
	3P	x	x	x	x	x	x	x	x
	3P+N	x	x	x	x	x	x	x	x
	4P	x	x	x	x	x	x	x	x
Degree of protection					IP66/IP67/IP69				
Impact resistance					IK08				
Protection against indirect contact					<input checked="" type="checkbox"/>				
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 side)				Max. 4* (2 per side)
Holes entry	Upper sides				2 x M20/M25				-
	Lower sides				2 x M20/M25				-
Knob position			Open - OFF position		Close - ON position		Open - OFF position	Close - ON position	
									

NOTE: to install the boxes by drilling the internal fixing points, it is necessary to use the screw caps GW 44 622 or GW 44 623 to maintain the double insulation and the IP protection degree.

(*) In 4P versions the max number of auxiliary contacts that can be installed is 3 (2+1). In the 160A 4P version the maximum number of auxiliary contacts that can be installed is 1.

Mechanical data 16 A ÷ 100 A 6P, 8P

In (A)	16	25	32	40	63	100
Poles	6P	x	x	x	x	x
	8P	x	x	x	x	x
Degree of protection	IP66/67/69					IP66/69
Impact resistance	IK08					
Protection against indirect contact	<input checked="" type="checkbox"/>					
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	6P	Max. 4 (2 per side)				Max. 1
	8P	Max. 1				Max. 2 (1 per side)
Holes entry	Upper sides	2 x M20		2 x M25	2 x M32	-
	Lower sides	2 x M20		2 x M25	2 x M32	-
Knob position			Open - OFF position	Close - ON position		
						

NOTE: to install the boxes by drilling the internal fixing points, it is necessary to use the screw caps GW 44 622 or GW 44 623 to maintain the double insulation and the IP protection degree.

Auxiliary Contacts

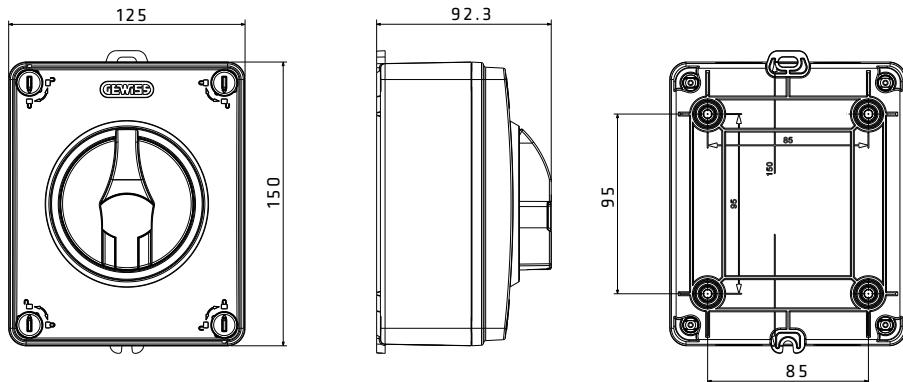
TECHNICAL DATA	
Type: Auxiliary Contacts NO or NC	Thermal current in Air (Ith): 16 A
Rated insulation voltage (Ui): 400 V	Thermal current in Boxes (Ithe): 10A
Conditional short circuit current (Icc - 400 V): 1 kA	Rated impulse withstand voltage (Uimp): 4 kV
Associated fuse size for conditional short circuit current - Type gG: 6A	Category of uses AC15: 6A (230V)
Tightening torque: 0,8 Nm	3A (380V)

70 RT HP

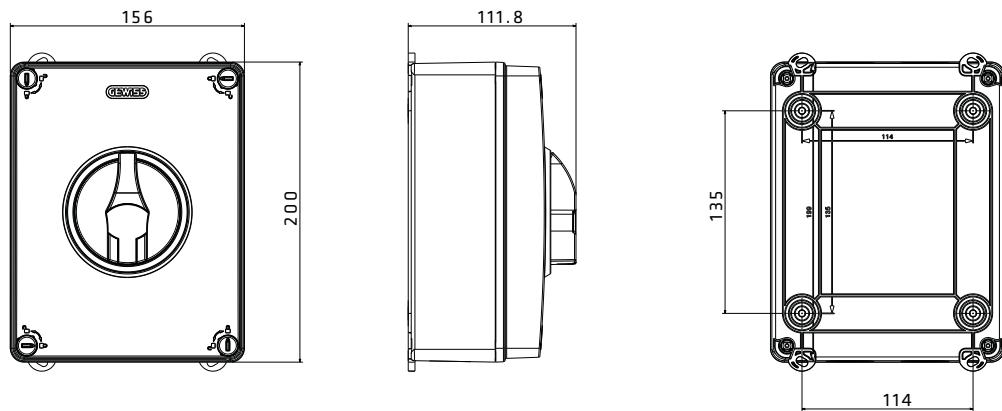
Dimension tables 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

ISOLATORS IN PLASTIC BOX

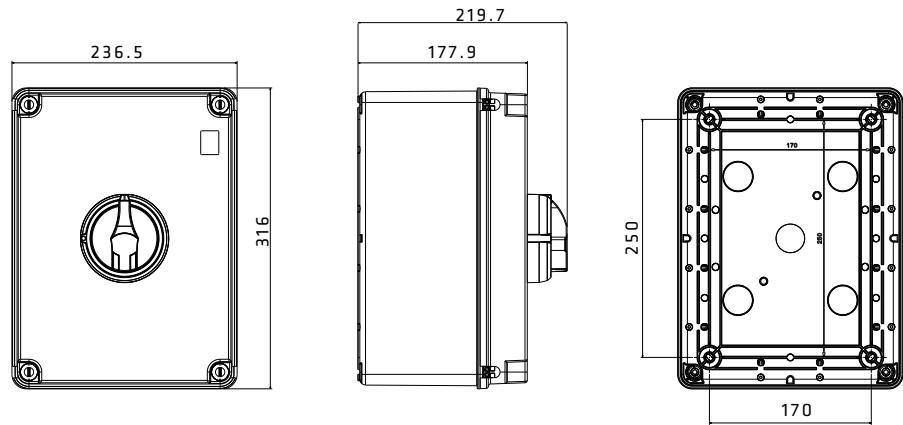
ISOLATORS IN BOX 16 A ÷ 40 A



ISOLATORS IN BOX 63 A - 80 A



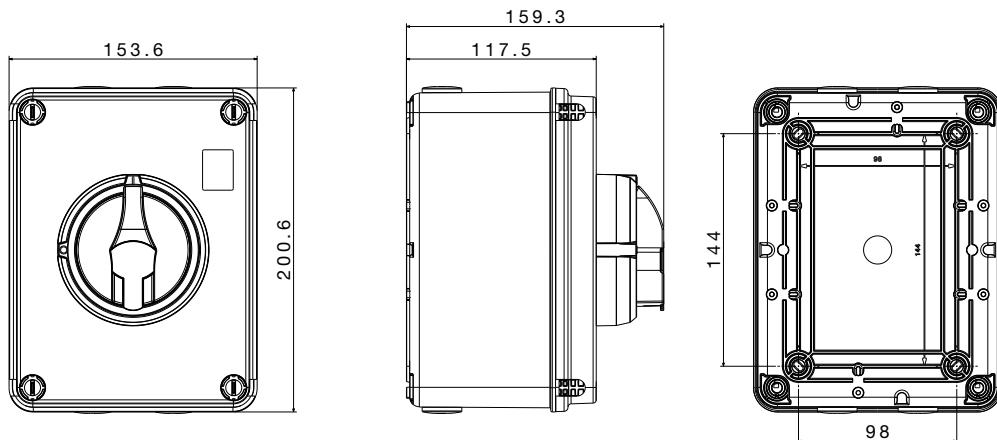
ISOLATORS IN BOX 100 A ÷ 160 A



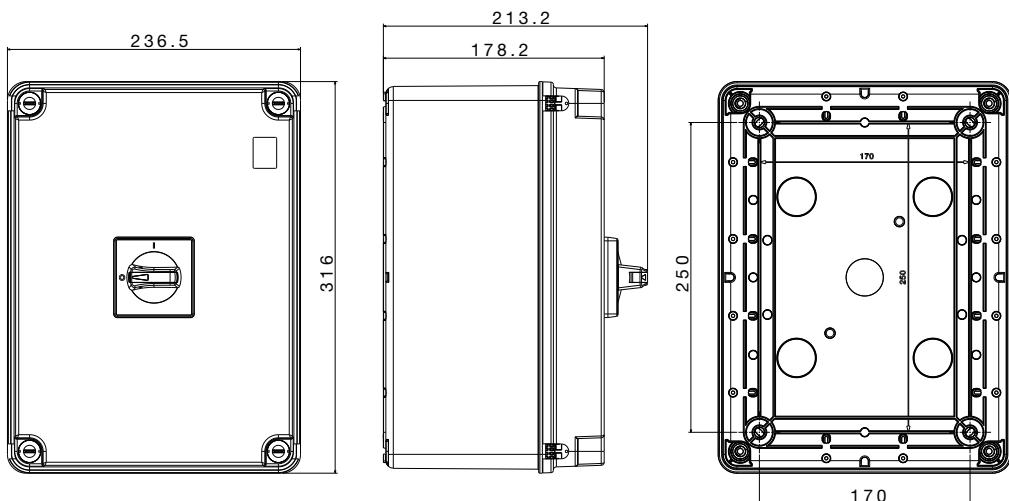
Dimension tables 16 A ÷ 100 A 6P, 8P

ISOLATORS IN PLASTIC BOX

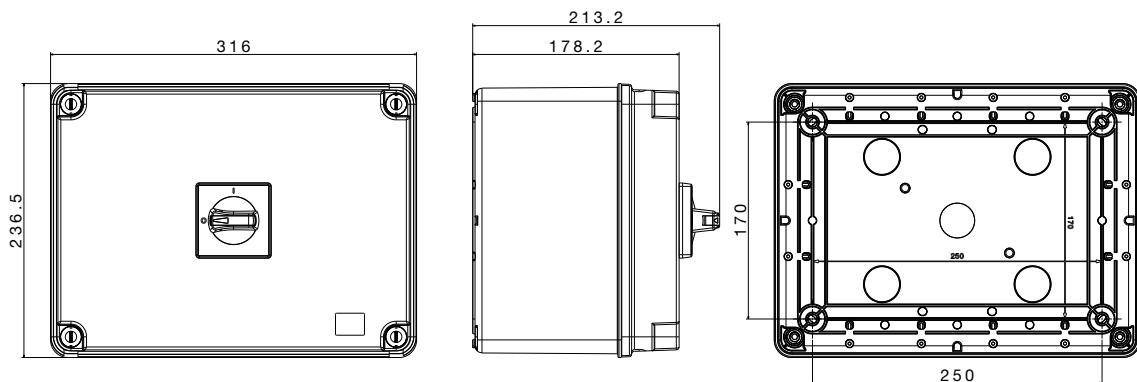
ISOLATORS IN BOX 16 A ÷ 40 A 6P - 8P



ISOLATORS IN BOX 63 A ÷ 100 A 6P



ISOLATORS IN BOX 63 A ÷ 100 A 8P



70 RT HP

ROTARY ISOLATOR SWITCHES IN METAL BOX

Rotary isolator switches in control (with black knob) or emergency version (with red knob). Complying with EN 60947-3 standard.

Electrical data 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

Rated operational current IEC	Rated current IEC		16A	25A	32A	40A	63A	80A	100A	125A	160A
	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/the	A	16	25	32	40	63	80	100	125	160
	AC21A	415V	A	16	25	32	40	63	80	100	125
	Resistive loads, including moderate overloads										
	AC22A	415V	A	16	25	32	40	63	80	100	125
	Mixed resistive and inductive loads, including moderate overloads										
	AC23A	415V	A	16	25	32	40	63	80	100	125
	Switching of motor loads or other highly inductive loads (3 phases/3 poles)										
Associated fuse for conditional short circuit current - Type gG		A	160	250	320	400	630	800	2500	2500	2500
Conditional short circuit current (Icc)	415V	kA	10	10	10	10	6	6	10	10	10
	500V		6	6	6	6	6	6	6	6	6
Associated fuse 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		mm ²	1 ÷ 10			2,5 ÷ 25			4 ÷ 70		
Max. rigid wire		mm ²	1 ÷ 10			2,5 ÷ 25			4 ÷ 70		

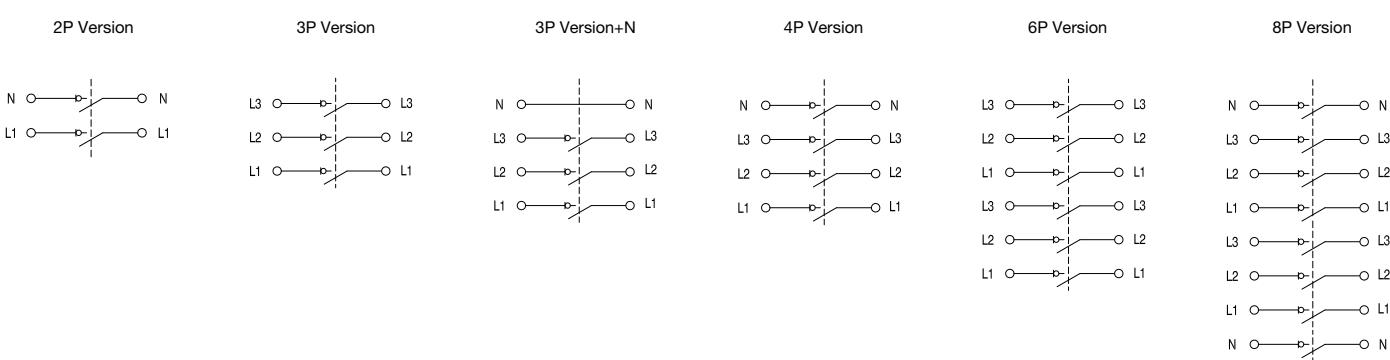
* The surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

Electrical data 16 A ÷ 100 A 6P, 8P

Rated current IEC		16A	25A	32A	40A	63A	100A
Rated insulation voltage Ui	VAC	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage Uimp	kV	8	8	8	8	8	8
Thermal current Ith/the	A	16	25	32	40	63	100
Rated operational current IEC	AC21A	415V	A	16	25	32	40
	Resistive loads, including moderate overloads					63	100
	AC22A	415V	A	16	25	32	40
	Mixed resistive and inductive loads, including moderate overloads					63	100
	AC23A	415V	A	16	25	32	40
	Switching of motor loads or other highly inductive loads (3 phases/3 poles)					63	100
	Conditional short circuit current (Icc)	415V	kA	10	10	10	10
	Associated fuse for conditional short circuit current - Type gG		A	40	40	40	100
				WIRING *			
Tightening torque		Nm		2			6
Max. flexible wire		mm²		0,75 ÷ 16			4 ÷ 70
Max. rigid wire		mm²		0,75 ÷ 16			4 ÷ 70

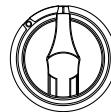
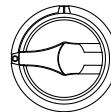
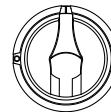
* The surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

Wiring diagram



BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Mechanical data 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

In (A)	16	25	32	40	63	80	100	125	160
Poles	2P	x	x	x					
	3P	x	x	x	x	x	x	x	x
	3P+N	x	x	x	x	x	x	x	x
	4P	x	x	x	x	x	x	x	x
Degree of protection					IP66				
Impact resistance					IK10 (box); IK08 (knob)				
Thermo-pressure with ball (°C)					80 (box)				
Glow Wire Test (°C)					650 (knob)				
Range of temperature (°C)					-25; +60				
Housable auxiliary contacts				Max. 2 (1 per side)					Max. 4* (2 per side)
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	
									

(*) In 4P versions the max number of auxiliary contacts that can be installed is 3 (2+1). In the 160A 4P version the maximum number of auxiliary contacts that can be installed is 1.

Mechanical data 16 A ÷ 100 A 6P, 8P

In (A)	16	25	32	40	63	100
Poles	6P	x	x	x	x	x
	8P	x	x	x	x	x
Degree of protection	IP66					
Impact resistance	IK10 (box); IK08 (knob)					
Thermo-pressure with ball (°C)	80 (box)					
Glow Wire Test (°C)	650 (knob)					
Range of temperature (°C)	-25; +60					
Housable auxiliary contacts	6P			Max. 4 (2 per side)		
	8P		Max. 2 (1 per side)			Max. 1
Holes entry	Upper sides		2 x M20		2 x M25	
	Lower sides		2 x M20		2 x M25	
Knob position			Open - OFF position	Close - ON position		
						

Auxiliary Contacts

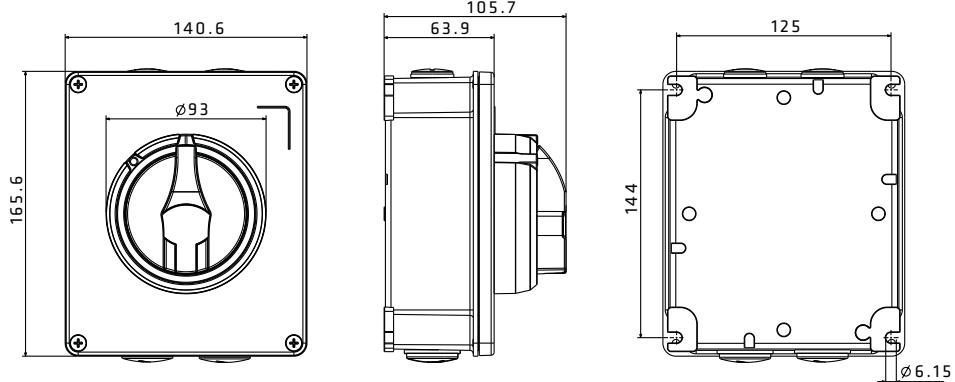
TECHNICAL DATA	
Type: Auxiliary Contacts NO or NC	Thermal current in Air (ith): 16 A
Rated insulation voltage (Ui): 400 V	Thermal current in Boxes (ithe): 10A
Conditional short circuit current (Icc - 400 V): 1 kA	Rated impulse withstand voltage (Uimp): 4 kV
Associated fuse size for conditional short circuit current - Type gG: 6A	Category of uses AC15: 6A (230V)
Tightening torque: 0,8 Nm	3A (380V)

70 RT HP

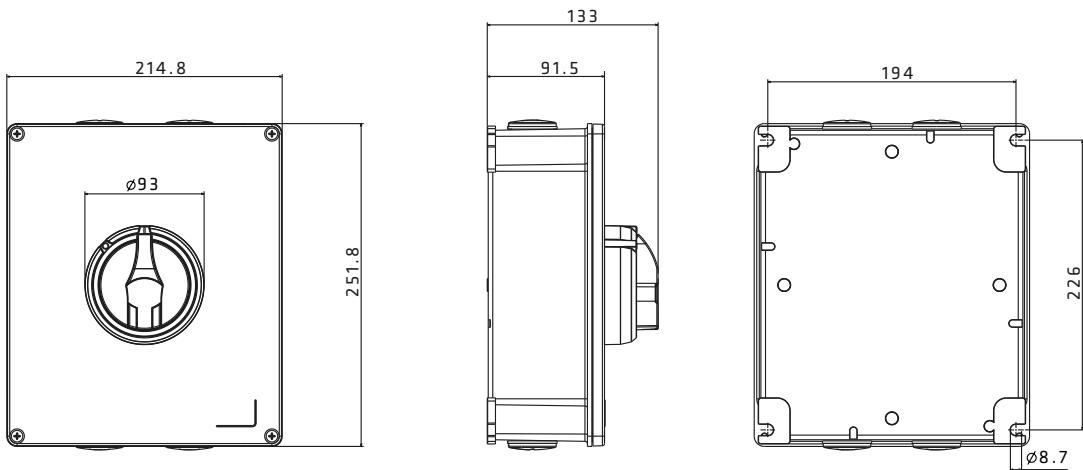
Dimension tables 16 A ÷ 160 A 2P, 3P, 3P+N, 4P

ISOLATORS IN METAL BOX

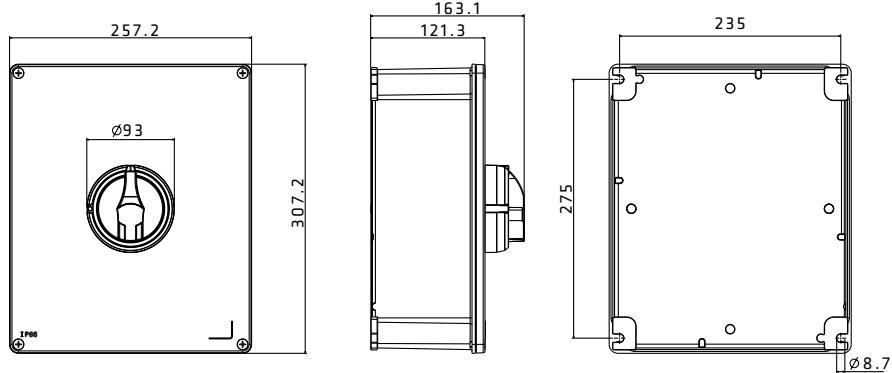
ISOLATORS IN BOX 16 A ÷ 40 A

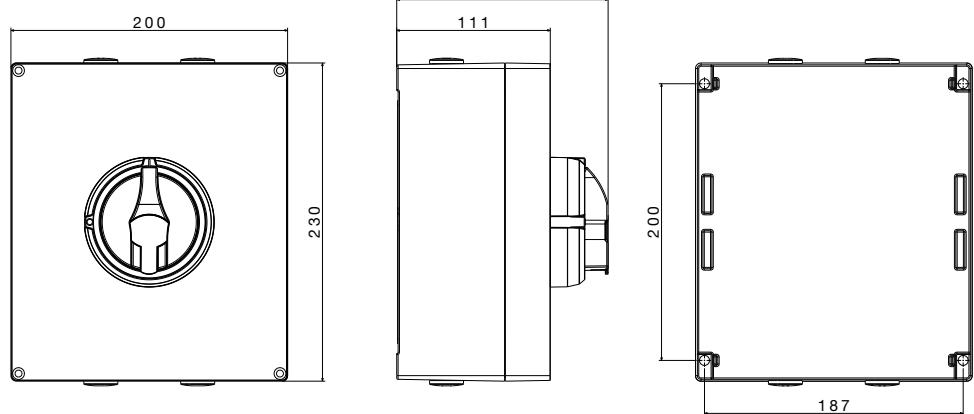
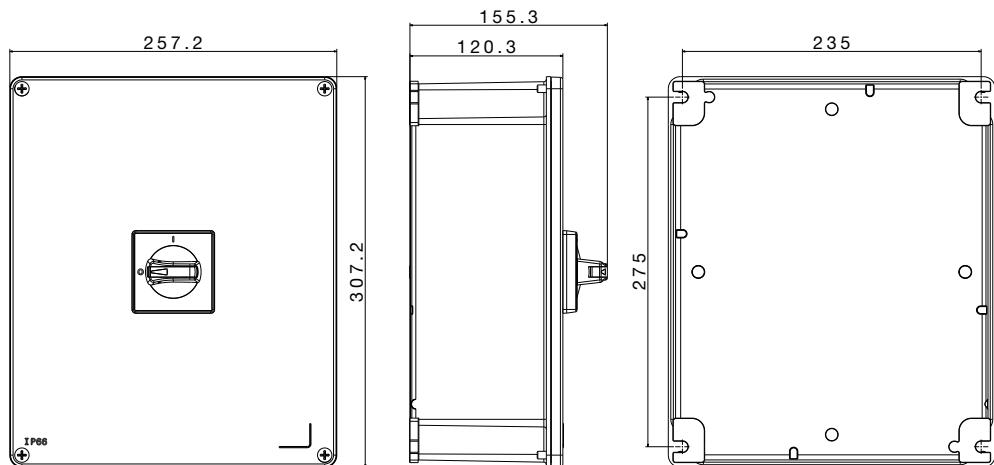


ISOLATORS IN BOX 63 A - 80 A



ISOLATORS IN BOX 100 A ÷ 160 A



Dimension tables 16 A ÷ 100 A 6P, 8P**ISOLATORS IN METAL BOX****ISOLATORS IN BOX 16 A ÷ 40 A****ISOLATORS IN BOX 63 A ÷ 100 A**

70 RT HP

ROTARY ISOLATOR SWITCHES IN DIRECT CURRENT

Rotary disconnector switches in insulating box.

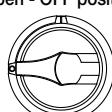
Complying with EN 60947-3 standard and CEI EN 60947-3:2021 (Annex D) for photovoltaic applications.

Electrical data

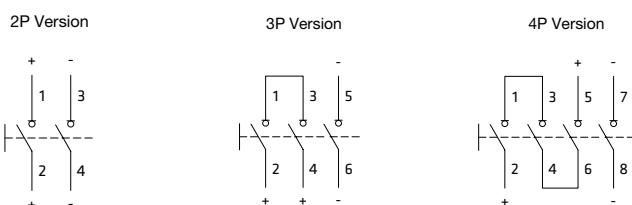
Code		GW 70 231	GW 70 235	GW 70 238	GW 70 239	GW 70 241	GW 70 242
Rated current IEC		16A	25A	32A	32A	40A	40A
DC21B / DCPV1	≤800V 1000V 1250V 1500V						
Rated insulation voltage Ui	VAC						
Rated impulse withstand voltage Uimp	kV						
Thermal current Ith/Ithe	A						
Rated short time withstand current Icw (1s)	A						
WIRING							
Tightening torque	Nm					1,6	
Max. flexible wire	mm²					1 ÷ 10	
Max. rigid wire	mm²					1 ÷ 10	

DATA TO BE REQUESTED TO OUR
TECHNICAL ASSISTANCE SERVICE

Mechanical data

In (A)	16	25	32	40
Poles	2P	3P	3P	3P
Degree of protection	IP66/IP67/IP69			
Impact resistance	IK08			
Protection against indirect contact	<input type="checkbox"/>			
Thermo-pressure with ball (°C)	125 (device); 80 (box)			
Glow Wire Test (°C)	960 (device); 650 (box)			
Range of temperature (°C)	-25; +60			
Holes entry	Upper sides	2 x M20	2 x M20	2 x M20
	Lower sides	2 x M20	2 x M20	2 x M20
		Open - OFF position	Close - ON position	
Knob position				

Wiring diagram



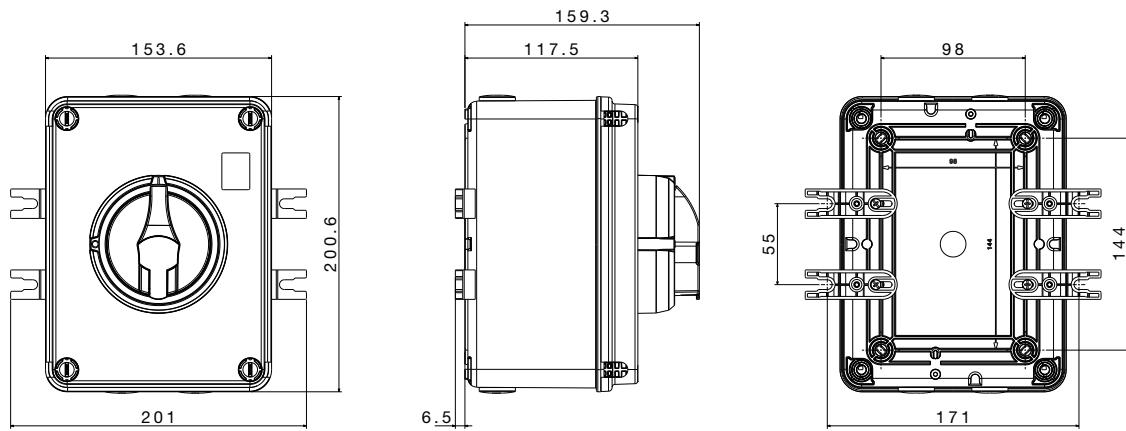
BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

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	Limited resistance	Resistant	Resistant

Dimension tables

ISOLATORS IN BOX

ISOLATORS IN BOX 16 A ÷ 40 A



70 RT HP

ROTARY ISOLATOR SWITCHES FOR DISTRIBUTION BOARDS

Rotary disconnector switches in versions for board (16 A ÷ 800 A) or for DIN rail (16 A ÷ 63 A). Complying with EN 60947-3 standard.

Electrical data 16 A ÷ 160 A 2P, 3P, 4P

Rated current IEC		16A	25A	32A	40A	63A	80A	100A	125A	160A
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	415V	A	16	25	32	40	63	80	100
	Resistive loads, including moderate overloads	500V	A	16	25	32	40	63	80	100
	AC22A	415V	A	16	25	32	40	63	80	100
	Mixed resistive and inductive loads, including moderate overloads	500V	A	16	25	32	40	63	80	100
	AC23A	415V	A	16	25	32	40	63	80	100
Switching of motor loads or other highly inductive loads (3 phases/3 poles)		500V	A	16	25	32	40	63	80	100
Rated short time withstand current Icw (1s)		A	160	250	320	400	630	800	2500	2500
Conditional short circuit current (Icc)		415V	kA	10	10	10	10	6	10	10
		500V		6	6	6	6	6	6	6
Associated fuse for conditional short circuit current - Type gG		A	16	25	32	40	63	80	100	125
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		

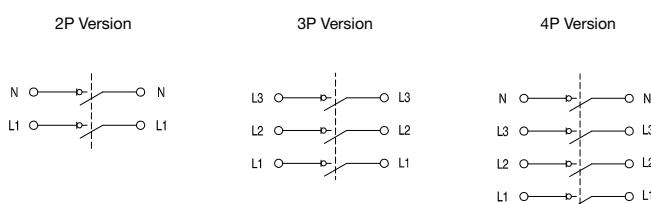
NOTE: the surface of the wiring terminals is knurled to improve the grip of the stripped cable inserted into the terminal and to facilitate wiring operations.

Electrical data 200 A ÷ 800 A 3P, 4P

Rated current IEC		200A	250A	315A	400A	630A	800A			
Rated insulation voltage Ui	VAC	1000	1000	1000	1000	1000	1000			
Rated impulse withstand voltage Uimp	kV	12	12	12	12	12	12			
Thermal current Ith/Ithe	A	200	250	315	400	630	800			
Rated operational current IEC	AC21A	415V	A	200	250	315	400			
	Resistive loads, including moderate overloads	500V	A	200	250	315	400			
	690V	A	200	250	315	400	630			
	AC22A	415V	A	200	250	315	400			
	Mixed resistive and inductive loads, including moderate overloads	500V	A	200	250	315	400			
Rated operational current IEC	690V	A	200	250	315	400	630			
	AC23A	415V	A	200	250	315	400			
	500V	A	200	250	315	400	630			
	690V	A	200	250	315	400	630			
	Switching of motor loads or other highly inductive loads (3 phases/3 poles)	690V	A	200	250	315	400			
Rated short time withstand current Icw (1s)		kA	6	6	12,5	12,5	20			
Conditional short circuit current (Icc)		415V	KA	100	100	80	80			
		500V	KA	100	100	80	80			
		690V	KA	100	100	80	80			
Associated fuse for conditional short circuit current - Type gG		A	200	250	315	400				
WIRING										
Tightening torque	Nm		22		37		75			
Max. flexible wire	mm²		70 ÷ 185		1 x 185 ÷ 2 x 185		2 x 185			
Max. rigid wire	mm²		70 ÷ 185		1 x 185 ÷ 2 x 185		2 x 240			

NOTE: for versions from 200 ÷ 800A for applications with voltages ≥500V the phase barriers are required.

Wiring diagram



Auxiliary Contacts 16 A ÷ 160 A

TECHNICAL DATA	
Type: Auxiliary Contacts NO or NC	Thermal current in Air (Ith): 16 A
Rated insulation voltage (Ui): 400 V	Thermal current in Boxes (Ithe): 10A
Conditional short circuit current (Icc - 400 V): 1 kA	Rated impulse withstand voltage (Uimp): 4 kV
Associated fuse size for conditional short circuit current - Type gG: 6A	Category of use AC15: 6A (230V)
Tightening torque: 0,8 Nm	3A (380V)

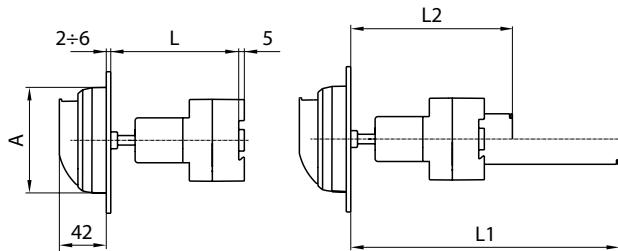
Auxiliary Contacts 200 A ÷ 800 A

TECHNICAL DATA	
Type: Auxiliary Contacts EB or NC	Thermal current in Air (Ith): 16 A
Rated insulation voltage (Ui): 690 V	Rated impulse withstand voltage (Uimp): 6 kV
Conditional short circuit current (Icc - 690 V): 1 kA	Category of use AC15: 6A (230V)
Associated fuse size for conditional short circuit current - Type gG: 10A	3A (380V)

70 RT HP

Dimension tables

ROTARY ISOLATOR SWITCHES FOR BOARD: PANEL/DOOR MOUNTING 16 A ÷ 80 A

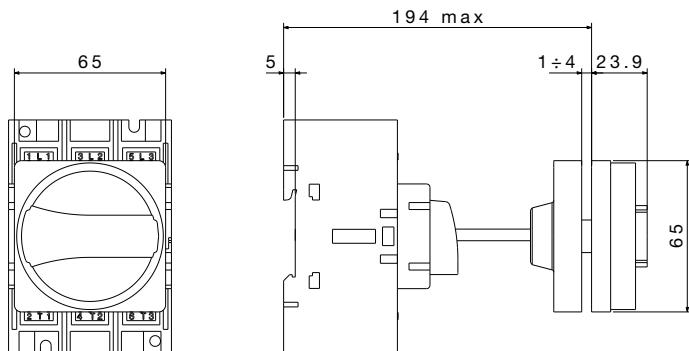


Isolator	WITHOUT BRACKETS		WITH BRACKETS		A
	Supplied with L	Adjustable up to L*	L1 max length obt.	L2 min length obt.**	
16A - 25A - 32A - 40A	145	87	(145+160) 305	(87+30) 117	ø 94
63A - 80A	177	114	(117+160) 337	(114+30) 144	ø 94

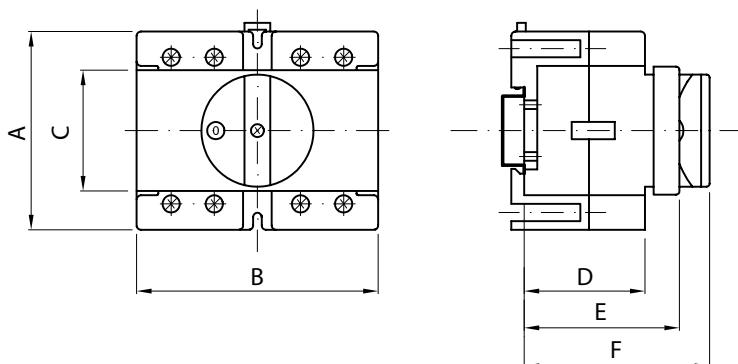
(*) Position obtainable by cutting the shaft supplied.

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

ROTARY ISOLATOR SWITCHES FOR BOARD: PANEL/DOOR MOUNTING 100 A ÷ 160 A



ROTARY ISOLATOR SWITCHES FOR BOARD: DIN RAIL MOUNTING EN 50022 16 A ÷ 63 A

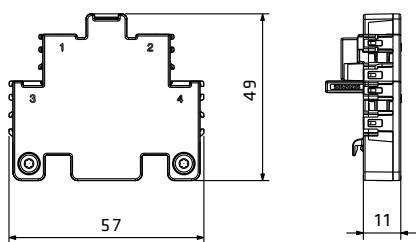


Type	A	B	C	D	E	F
16 - 32A	55	71 ●	45	37	53	68
63 A	73	89 ▲	45	44	56	68

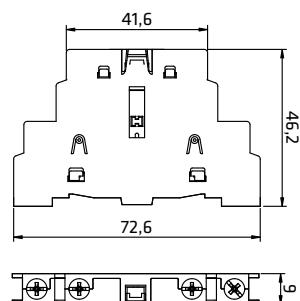
★ Occupies 3 modules (17,5 mm). ● Occupies 4 modules (17,5 mm). ▲ Occupies 5 modules (17,5 mm).

Dimension tables

AUXILIARY CONTACTS 16 A ÷ 160 A

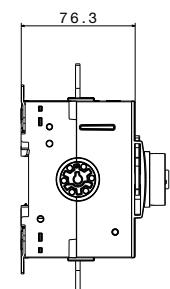
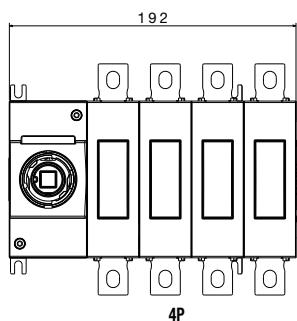
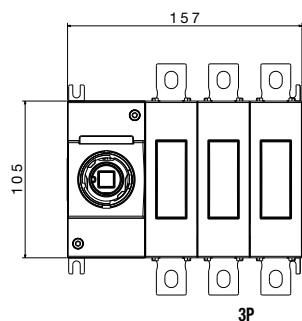


For isolator 16 - 25 - 32 - 40 - 63 - 80A

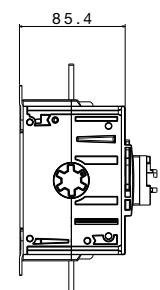
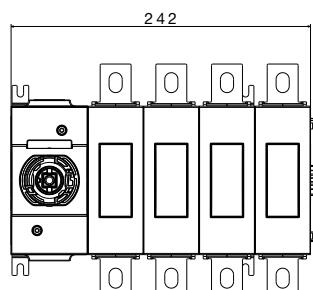
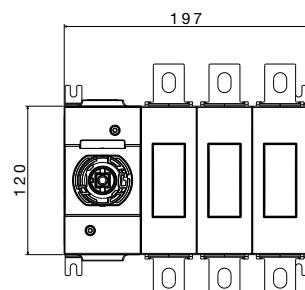


For isolator 100 - 125 - 160A and 16-100A 6P and 8P

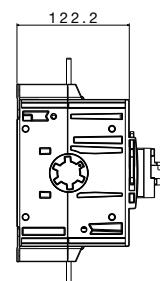
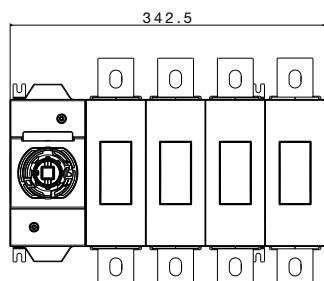
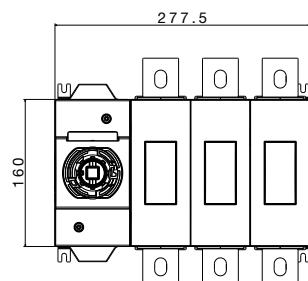
ROTARY ISOLATOR SWITCHES FOR BOARD: PANEL/DOOR MOUNTING 200 A - 250 A



ROTARY ISOLATOR SWITCHES FOR BOARD: PANEL/DOOR MOUNTING 315 A - 400 A



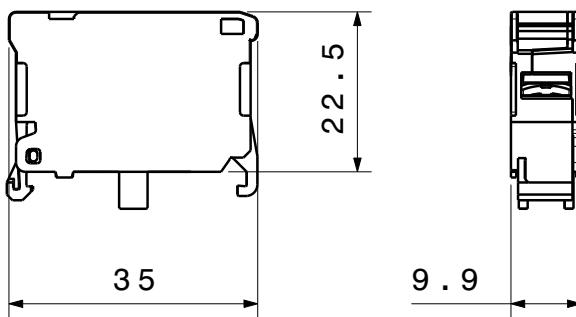
ROTARY ISOLATOR SWITCHES FOR BOARD: PANEL/DOOR MOUNTING 630 A - 800 A



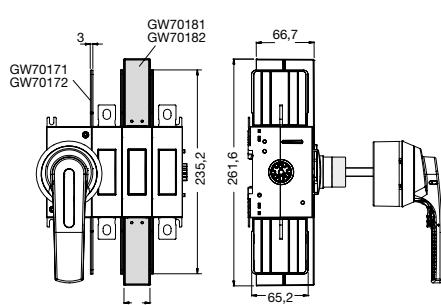
70 RT HP

Dimension tables

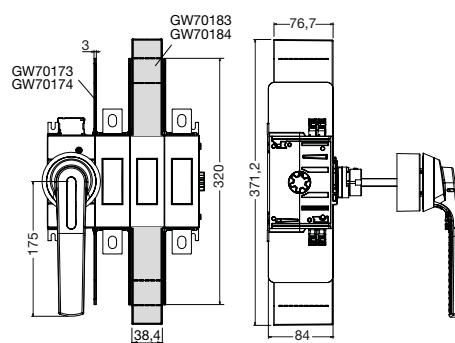
AUXILIARY CONTACTS 200 A ÷ 400 A



PHASE BARRIERS AND TERMINAL COVERS 200 A ÷ 400 A



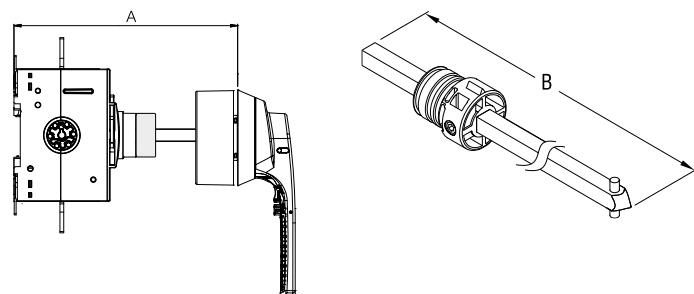
Isolators 200 A - 250 A



Isolators 315 A - 400 A

SHAFTS FOR PANEL/DOOR MOUNTING KNOB A 200 A ÷ 400 A

Isolator	A	B
200A - 250A	124 ÷ 244	200
	124 ÷ 344	300
315A - 400A	157 ÷ 277	200
	157 ÷ 377	300
630A - 800A	DATA TO BE REQUESTED TO OUR TECHNICAL ASSISTANCE SERVICE	



70 RT ATEX DISCONNECTORS - METAL BOX

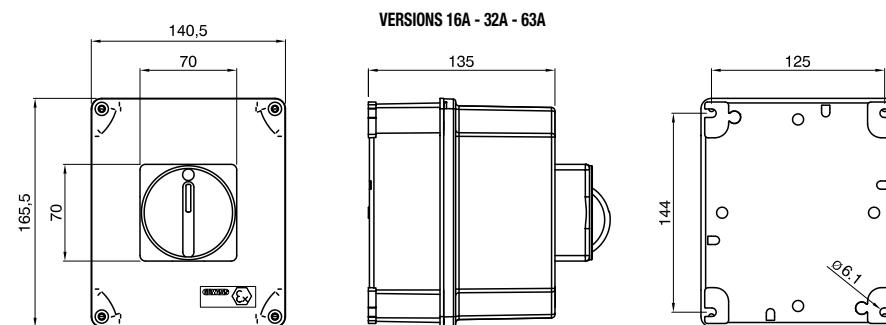
Switch disconnectors for command and emergency in aluminium box painted in Grey Ral 7037, suitable for use in **ZONE 22(D)** with rated current of 16-32-63-100A. Standard: EN 60947-3, EN 61241-0, EN60079-0, EN60079-31 - Dir. ATEX 94/9/CE.

TECHNICAL DATA				16A	32A	63A	100A
Vn insulation		Ui (IEC947-3)		V			
Vn of impulse withstand		Uiimp (IEC947-3)		KV			
In thermal	In air	Ith (IEC947-3)		A	25	40	63
	In box	Ithe (IEC947-3)		A	16	32	63
In use	AC21A	Ie (IEC947-3)	400V	A	16	32	63
	AC22A		400V	A	16	32	63
Max power with three-phase motors	AC23A	IEC947-3	400V	kW	7	14	28
In short lifespan		Icw		A	400	800	1500
In cond. of short-circuiting		IEC947-3		kAeff	10	10	15
CONNECTABLE SECTIONS							
Rigid cables		min-max	mm ²	1,5-16	1,5-16	2,5-35	10-70
			AWG	16-6	16-6	14-3	8-00
Flexible cables		min-max	mm ²	1,5-16	1,5-16	2,5-35	10-70
			AWG	16-6	16-6	14-3	8-00
CONDITIONS OF USE							
Ambient temperature	of storage		°C	-30; +70			
	of operation		°C	-25; +55			

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

Dimension tables

SWITCH DISCONNECTORS FOR COMMAND AND EMERGENCY



VERSIONS 100A

