GIOVENZANA
INTERNATIONAL B.V.



REGOLUS SWITCH DISCONNECTORS
SQN Series

EXECUTION OVERVIEW AND GENERAL CHARACTERISTICS

REGOLUS SWITCH DISCONNECTORS

The disconnectors Regolus Series, built to the most stringent European and international standards (**IEC / EN 60947-3, UL508**), meet all the safety requirements.



SQN SERIES

The disconnectors modular SQN Series from 125A to 160A, 3 poles have the possibility to install additional poles, auxiliary contacts and terminal IP20 protections.

GENERAL CHARACTERISTICS

- Rated current from 125A to 160A
- 3 Poles (AC/DC)
- Additional pole (4th pole) and auxiliary contact
- Mechanism with two stable positions ON-OFF
- Locking handle (OFF position)
- Independent manual operation (according to EN 60947-3)
- Nr. 6 air-openings available to optimize heat dissipation
- Optimized for DIN rail (box) and panel mounting

AVAILABLE VERSIONS

- Switch disconnectors 6 poles and changeover
- Panel mounting Screw Fixing
- Base Mounting
- Door locking
- Direct command

COMPLY WITH RULES

IEC/EN 60947-3, UL508.

SERIES			SQN125 - SQN160
Material Group		**EN 60947-1**	II
Pollution Grade		**EN 60947-1**	3
Flammability		**UL94**	V0 (Live Electric parts)
Ambient Temperature		**°C**	Operating: -25 +55
		°C	Storage: -30 +70
Climate Withstand		**IEC 68 part 2-3**	Constant Hot Damp
		IEC 68 part 2-30	Cyclical Hot Damp
Connections	Terminal Block Caliber	**EN60947-1**	A11
	Terminal Screw		M 8
	Screwing Torque	**EN60947-1**	6 Nm
		UL508	53 lb. in. (6 Nm)
Connectable Section	Flexible Conductors n°1 min/max	**mm²**	6 - 25
		AWG	10 - 2
	Solid Conductors n°1 min/max	**mm²**	10 - 35
		AWG	10 - 2
Contacts			Slow Opening Double-Break
Opening Angles			90°
Mechanical Lifetime at 120 operations per hour		**nr. of cycles**	100.000
Maximum Altitude	Until 2000 mt	**Derating**	Standard
	Over 2000 mt	**Voltage Derating (V)**	< 1% each 100 mt
		Power Derating (A)	< 1% each 1000 mt

CERTIFICATIONS		SQN125	SQN160
CE	CE mark - Europa	■	■
cULus	cUL Listed - USA and Canada	●	●

TECHNICAL CHARACTERISTICS

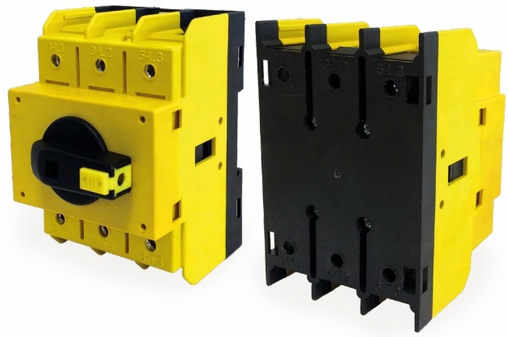
EN 60947-3 CHARACTERISTICS		SQN125	SQN160
Rated operating voltage Ue	**V**	690	690
Rated insulation voltage Ui	**V**	800	800
Rated impulse withstand voltage Uimp (sectionable)	**kV**	8	8
Rated thermal current Ith	**A**	125	160
Rated thermal current in enclosed Ithe	**A**	125	160
Frequency	**Hz**	50/60	50/60

RATED OPERATING CURRENT Ie: alternate current			SQN125	SQN160
AC-21A Switching resistive loads with light overloads	**690V**	**A**	125	160
AC-22A Switching mixed resistive	**500V**	**A**	125	160
and inductive loads at light overloads	**690V**	**A**	125	160
AC-23A Periodic switching of motors	**230V**	**A**	-	-
3 phases - 3 poles	**400V**	**A**	125	160
	500V	**A**	100	125
	690V	**A**	80	100
DC-21B (4P Series positive opening)	**600V**	**A**	10	10

SHORT CIRCUIT CHARACTERISTICS			SQN125	SQN160
Rated short-time short circuit withstand current Icw (1 s)		**A**	3000	3000
Rated short circuit making capacity Icm		**A**	4500	4500
Conditional rated short circuit withstand current		**kA**	10 | 10	10 | 10
Fuse rating gG	**500V**	**A**	-	-
	690V	**A**	125	125

UL 508 CHARACTERISTICS			SQN125	SQN160
General Use	**600V AC**	**A**	125	150
Standard motor load	**240V AC**	**HP**	25	25
3 phases - 3 poles	**480V AC**	**HP**	50	50
	600V AC	**HP**	60	60

Box Execution





Panel Mounting Execution

PANEL MOUNTING

TYPE R



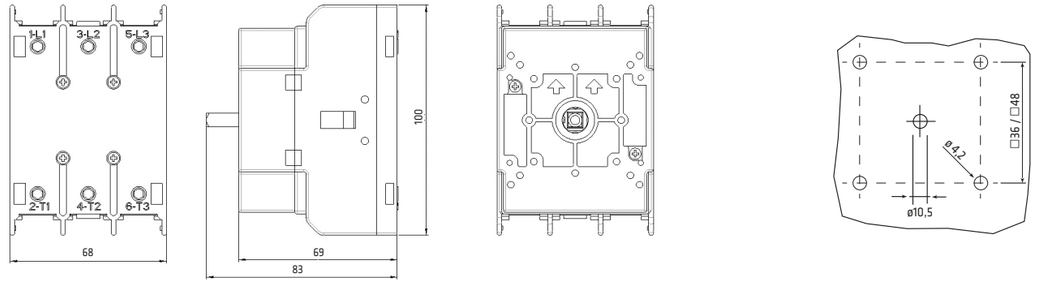
- Screw fixing.
- See page 51 for combinable actuators.

SERIES	AC-21A AMP. 690V	AC-23A AMP. 400V	CODE 3 POLES
SQN125	125	125	SQN125003R
SQN160	160	160	SQN160003R

3 POLES



Dimensions and details of fixing holes



BASE MOUNTING

TYPE B



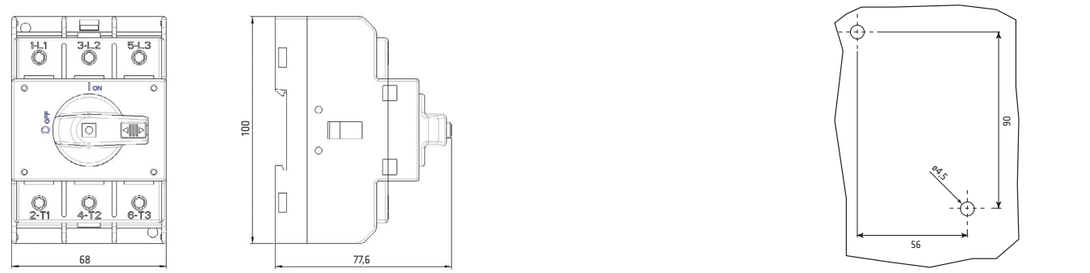
- Direct command and Door Locking
- Fixing box DIN RAIL DIN-EN 50022-35.
- Black knob locking (1 lock) in "0-OFF" position.
- See page 51 for combinable actuators.

SERIES	AC-21A AMP. 690V	AC-23A AMP. 400V	CODE 3 POLES
SQN125	125	125	SQN125003B
SQN160	160	160	SQN160003B

3 POLES

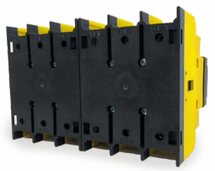


Dimensions and details of fixing holes



SWITCH D. 6 POLES & CHANGEOVERS 3 POLES

TYPE R



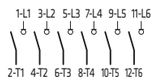
- Screw fixing.
- See page 51 for combinable actuators.

SERIES	AC-21A AMP. 690V	AC-23A AMP. 400V	PANEL MOUNTING CODE 6 POLES	PANEL MOUNTING CODE CHANGEOVER 3 POLES
SQN125	125	125	SQN125006R	SQN125033R
SQN160	160	160	SQN160006R	SQN160033R

90°

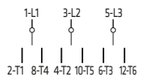


6 POLES



3 POLES





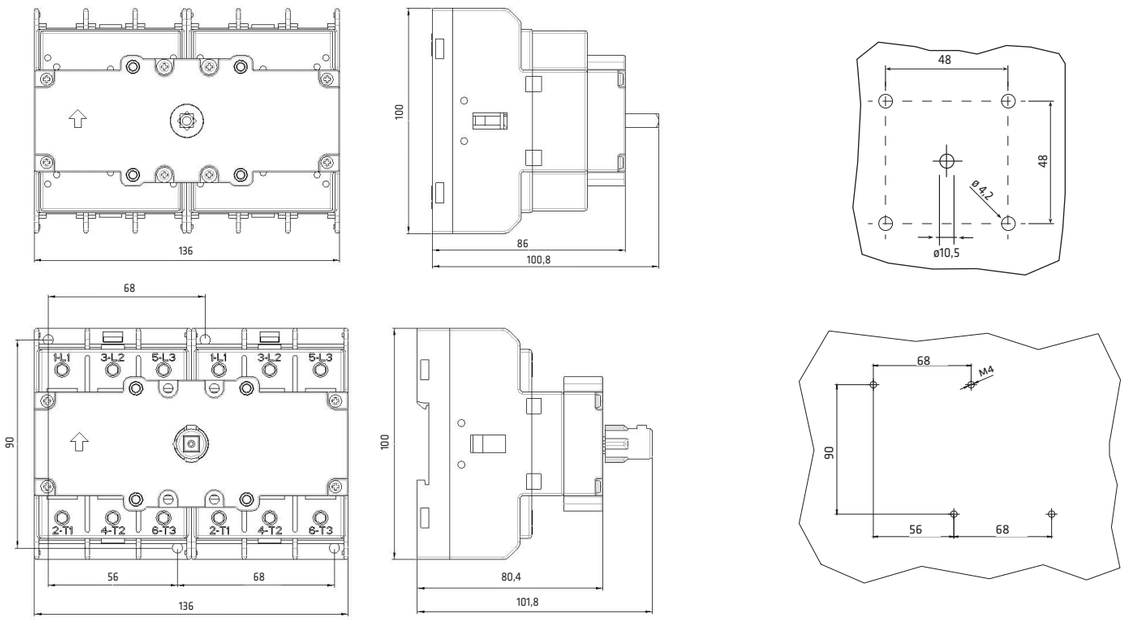
TYPE B



- Fixing box DIN RAIL DIN-EN 50022-35.
- Suitable for Door Locking actuators with shaft fixed on switch disconnectors body.
- See page 51 for combinable actuators.

SERIES	AC-21A AMP. 690V	AC-23A AMP. 400V	BASE MOUNTING CODE 6 POLI	BASE MOUNTING CODE CHANGEOVER 3 POLES
SQN125	125	125	SQN125006B	SQN125033B
SQN160	160	160	SQN160006B	SQN160033B

Dimensions and details of fixing holes



ADDITIONAL POLES

PANEL MOUNTING



SERIES	DESCRIPTION	CODE	DIAGRAM
SQN125 SQN160	Additional Pole NO	SQN125AFPR SQN160AFPR	7 — 8
	4th Pole (early make contact)	SQN125ANIR SQN160ANIR	N — N
	Neutral Terminal	SQN125ANPR SQN160ANPR	N — N
	Ground Terminal	SQN125APER SQN160APER	PE — PE

BASE MOUNTING



SERIES	DESCRIPTION	CODE	DIAGRAM
SQN125 SQN160	Additional Pole NO	SQN125AFPB SQN160AFPB	7 — 8
	4th Pole (early make contact)	SQN125ANIB SQN160ANIB	N — N
	Neutral Terminal	SQN125ANPB SQN160ANPB	N — N
	Ground Terminal	SQN125APEB SQN160APEB	PE — PE

AUXILIARY CONTACTS

PANEL MOUNTING



SERIES	DESCRIPTION	CODE	DIAGRAM
SQN125 SQN160	AUX 1NC	SQ010AS5R	1NC 1 — 2
	AUX 1NO	SQ010AS6R	1NO 3 — 4

BASE MOUNTING



SERIES	DESCRIPTION	CODE	DIAGRAM
SQN125 SQN160	AUX 1NC	SQ010AS5B	1NC 1 — 2
	AUX 1NO	SQ010AS6B	1NO 3 — 4

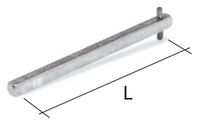
TERMINAL PROTECTION AND SHAFT EXTENSION

PANEL & BASE MOUNTING



3 POLES	1 POLE
20900064	20900065

BASE MOUNTING



SHAFT EXTENSION □6 FOR DOOR INTERLOCK	
L 185 mm	20900010
L 300 mm	20900011

SQN125 - SQN160 SERIES | EN 60529 - IP65 - UL50 Type 1 - 4 - 4x -12 (◆) Protection NEMA 4x.

ACTUATORS



- Grey Plate
- Black knob
- Locking Facility (Max 3 locks)

SERIE	FRONT PLATE SIZE	PANEL MOUNTING TYPE R CODE	DOOR LOCKING TYPE B CODE ▸	LEGEND PLATE
SQN125 - SQN160	ø78	309/0001	311/0001	
		309/0008	311/0008	



- Yellow Plate
- Red knob
- Locking Facility (Max 3 locks)

SERIE	FRONT PLATE SIZE	PANEL MOUNTING TYPE R CODE	DOOR LOCKING TYPE B CODE ▸	LEGEND PLATE
SQN125 - SQN160	ø78	310/0001	312/0001	
		310/0008	312/0008	



- Grey Plate
- Black knob
- Locking Facility (Max 3 locks)

SERIES	FRONT PLATE SIZE	PANEL MOUNTING TYPE R CODE	DOOR LOCKING TYPE B CODE ▸	LEGEND PLATE
SQN125 - SQN160	□67	319/0001 ◆	321/0001	
		319/0008 ◆	321/0008	



- Yellow Plate
- Red knob
- Locking Facility (Max 3 locks)

SERIES	FRONT PLATE SIZE	PANEL MOUNTING TYPE R CODE	DOOR LOCKING TYPE B CODE ▸	LEGEND PLATE
SQN125 - SQN160	□67	320/0001 ◆	322/0001	
		320/0008 ◆	322/0008	

▶ The actuator for DOOR LOCKING TYPE B includes the shaft □ 6 L85.

TF8

IP65 ▣



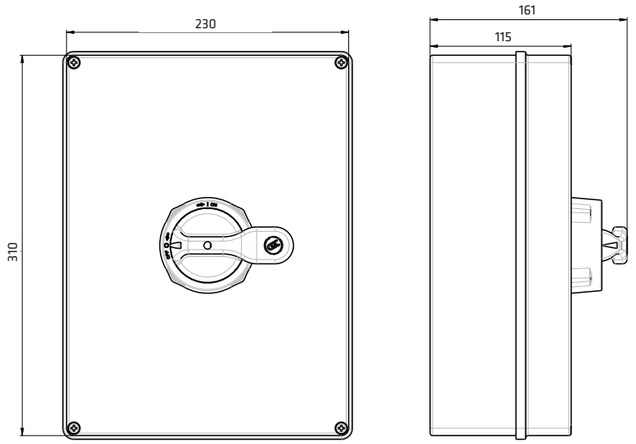
- Opening in "0" position.
- Red knob locking (Max 3 locks) in "0-OFF" position.
- Dimensions: 310x230x115mm.
- Grey box & cover. Red/yellow actuator.

SERIES	AC-21A AMP. 690V	AC-23A AMP. 400V	CODE 3 POLES
SQN125	125	125	SQN125003BTF8
SQN160	160	160	SQN160003BTF8

3 POLES







TF4

IP65 ▣

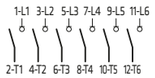


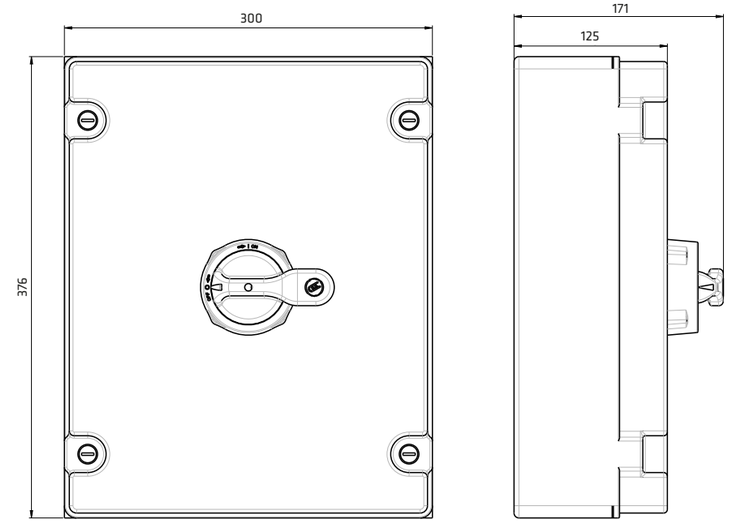
- Opening in "0" position.
- Red knob locking (Max 3 locks) in "0-OFF" position.
- Dimensions: 376x300x125mm.
- Grey box & cover. Red/yellow actuator.

SERIES	AC-21A AMP. 690V	AC-23A AMP. 400V	CODE 6 POLES
SQN125	125	125	SQN125006BTF4
SQN160	160	160	SQN160006BTF4

6 POLES

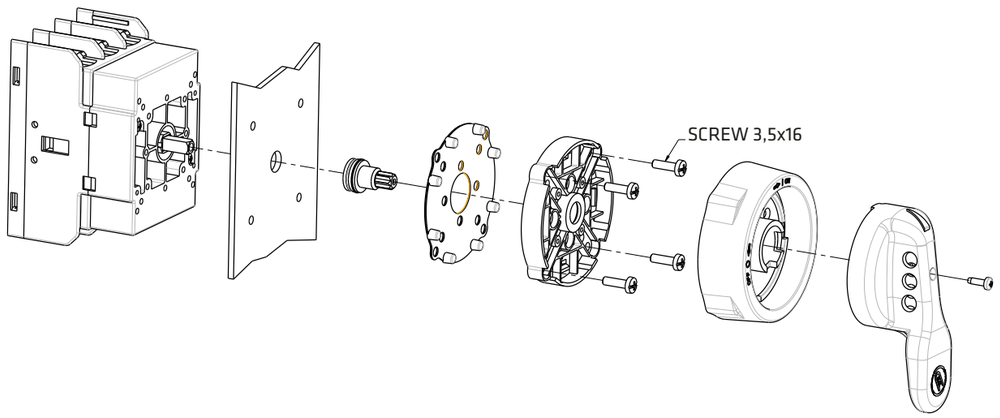


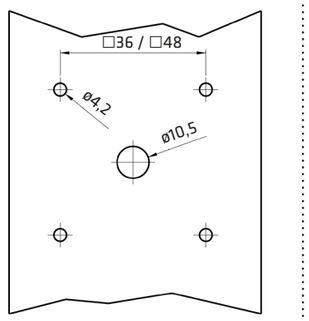




► **AVAILABLE ON REQUEST ALSO METAL AND STAINLESS STEEL ENCLOSURES.**

PANEL MOUNTING

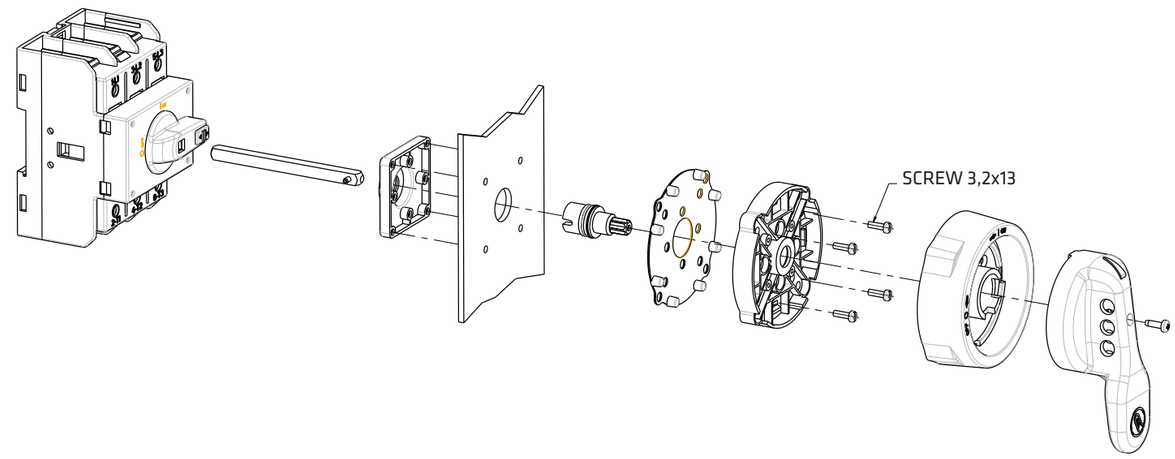


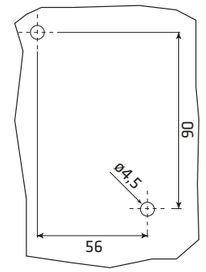


Panel

Screw fixing
3-6 poles

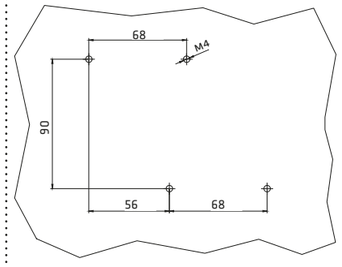
BASE MOUNTING





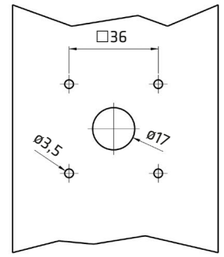
Base

Screw fixing
3 poles



Base

Screw fixing
6 poles



Panel

Screw fixing
3-6 poles