

Rotary Disconnect Switch, SQ Series, Type B, Panel Mounting



REGOLUS SWITCH DISCONNECTORS

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

The long industrial experience combined with the use of the best materials, plant and most modern design tools, enables us to produce a range of high quality equipment placing Giovenzana brand as synonymous of reliability, operational reliability and durability of its products.

SQ SERIES

The disconnectors modular SQ Series from 32A to 80A, 2-3 poles have the possibility to install additional poles, auxiliary contacts and terminal IP20 protections.

CHARACTERISTICS

- Rated current from 32A to 80A
- Series modular with 3 extensible poles
- Additional pole (4th pole)

AVAILABLE VERSIONS

- Switch disconnectors 6 poles and changeover 3 poles
- Panel mounting Screw Fixing
- Panel mounting Ø22.5mm Central Hole Fixing (SQ025 - SQ032 only)
- Base Mounting
- Door locking
- Direct command

COMPLY WITH RULES

- IEC/EN 60947-3, UL508
- IEC/EN 60947-5-1, UL508 (auxiliary contacts)

SERIES			SQ025 - SQ032		SQ040 - SQ063		AUXILIARY CONTACTS
Protection class	control terminals	EN 60529 (UL50 ♦) NEMA 4X EN 60529	IP65 (Type 1 - 4 -4X) IP20		IP65 (Type 1 - 4 -4X) IP20		- IP20
Material Group		EN 60947-1	II		II		II
Pollution Grade		EN 60947-1	3		3		3
Flammability		UL94	VO (Live Electric parts)		VO (Live Electric parts)		VO (Live Electric parts)
Ambient Temperature		°C °C	Operating: -25 +55 Storage: -30 +70		Operating: -25 +55 Storage: -30 +70		Operating: -25 +55 Storage: -30 +70
Climate Withstand		IEC 68 part 2-3 IEC 68 part 2-30	Constant Hot Damp Cyclical Hot Damp		Constant Hot Damp Cyclical Hot Damp		Constant Hot Damp Cyclical Hot Damp
Connections	Terminal Block Caliber	EN60947-1	A6		A8		A2
	Terminal Screw		M4		M5		M3,5
	Screwing Torque	EN60947-1 UL508	1,2 Nm 7 lb. in. (0,8 Nm)		3 Nm 32,0 lb. in. (3,6 Nm)		0,8 Nm 12 lb. in.
Connectable Section	Flexible Conductors n°1 min/max	mm²	1,5 - 10		6 - 25		1 - 2,5
		AWG	12 - 8		10 - 2		18 - 12
	Solid Conductors n°1 min/max	mm²	1,5 - 10		10 - 35		1 - 2,5
		AWG	12 - 8		10 - 2		18 - 12
Contacts			Slow Opening Double-Break		Slow Opening Double-Break		Slow opening Double-Break Positive opening for NC ⚡
Opening Angles			90°		90°		-
Mechanical Lifetime at 120 operations per hour			100.000		100.000		1.500.000
Maximum Altitude	Until 2000 mt	Derating	Standard		Standard		-
	Over 2000 mt	Voltage Derating (V)	< 1% ogni 100 m		< 1% ogni 100 m		-
		Power Derating (A)	< 1% ogni 1000 m		< 1% ogni 1000 m		-
CERTIFICATIONS			SQ025	SQ032	SQ040	SQ063	AUXILIARY CONTACTS
CE	CE mark - Europe		■	■	■	■	■
cUL _{US}	cUL Listed - USA and Canada		●	●	●	●	●
IMQ	Istituto Marchio Qualità (IMQ) - Italy		●	●	●	●	●
CCC	CCC China						●
EAC	EAC Russia						●

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EN 60947-3 CHARACTERISTICS			SQ025	SQ032	SQ040	SQ063	AUXILIARY CONTACTS
Rated operating voltage Ue	V		690	690	690	690	690
Rated insulation voltage Ui	V		690	690	690	690	690
Rated impulse withstand voltage Uimp (sectionable)	kV		8	8	8	8	4
Rated thermal current Ith	A		32	40	63	80	16
Rated thermal current in enclosed Ithe	A		32	40	63	80	10
Frequency	Hz		50/60	50/60	50/60	50/60	50/60

RATED OPERATING CURRENT Ie: alternate current			SQ025	SQ032	SQ040	SQ063	AUXILIARY CONTACTS
AC-21A Switching resistive loads with light overloads	690V	A	32	40	63	80	AC-15 240V - 5A
AC-22A Switching mixed resistive and inductive loads at light overloads	500V	A	-	-	-	-	DC-13
AC-23A Periodic switching of motors 3 phases - 3 poles	690V	A	25	32	63	80/-	250V - 0,44A
	230V	A/kW	25/7,5	32/10	63/-	80/-	-
	400V	A/kW	25/15	32/18,5	50/-	75/-	-
	500V	A/kW	25/15	32/22	50/-	75/-	-
	690V	A/kW	16/15	20/18,5	26/-	32/-	-
AC3 Starting of cage motors (interruption hile running) 3 phases - 3 poles	230V	A/kW	22/5,5	27/7,5	45/-	60/-	-
	400V	A/kW	22/11	27/15	40/-	60/-	-
	500V	A/kW	22/11	27/18,5	35/-	45/-	-
	690V	A/kW	16/11	20/15	22/-	25/-	-
Nominal interruption power AC-23A (cosfi 0,45)	230V	A	200	256	360	600	-
	400V	A	200	256	360	536	-
	500V	A	200	256	280	536	-
	690V	A	128	160	176	256	-

SHORT CIRCUIT CHARACTERISTICS			SQ025	SQ032	SQ040	SQ063	AUXILIARY CONTACTS
Rated short-time short circuit withstand current Icw (1 s)	A		800	800	1200	1500	-
Rated short circuit making capacity Icm	A		1500	1500	2200	2800	-
Conditional rated short circuit withstand current	kA		10	10	10 5	10 5	1
Fuse rating gG	500V	A	-	-	-	-	10
	690V	A	40	40	63 80	63 80	-

UL 508 CHARACTERISTICS			SQ025	SQ032	SQ040	SQ063	AUXILIARY CONTACTS
General Use	600V AC	A	32	40	60	80	HD A600 AC Q600 DC
Standard motor load single phase - 2 poles	120V AC	HP (FLA)	1,5 (20)	2 (24)	2 (24)	3 (34)	-
	200-208V AC	HP	2	3	3	5	-
	240V AC	HP (FLA)	3 (17)	5 (28)	5 (28)	7,5 (40)	-
Standard motor load 3 phases - 3 poles	200-208V AC	HP	7,5	10	7,5	10	-
	240V AC	HP (FLA)	7,5 (22)	10 (28)	10 (28)	15 (42)	-
	480V AC	HP (FLA)	10 (14)	15 (21)	25 (34)	30 (40)	-
	600V AC	HP (FLA)	15 (17)	20 (22)	30 (32)	40 (41)	-

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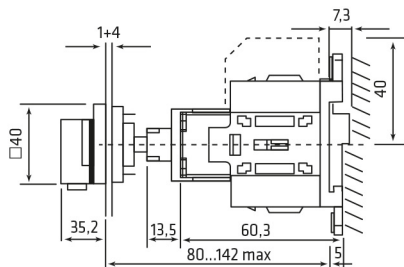
TYPE B



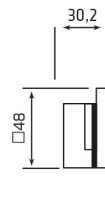
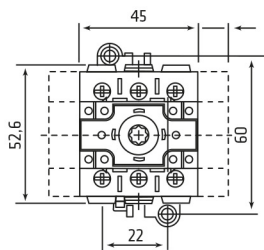
- ➔ Fixing box DIN RAIL DIN-EN 50022-35.
- ➔ Suitable for Door Locking actuators.

SERIES	AC-21A	AC-23A	CODE	
	AMP. 690V	AMP. 400V	2 POLES	3 POLES
SQ025	32	25	SQ025002B	SQ025003B
SQ032	40	32	SQ032002B	SQ032003B

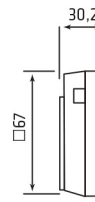
		2 POLES		3 POLES	
		1-L1 5-L3 2-T1 6-T3		1-L1 3-L2 5-L3 2-T1 4-T2 6-T3	



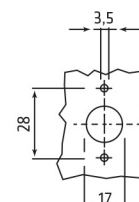
Actuator Type 005
006



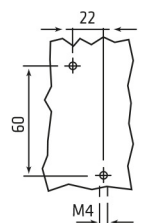
020
030



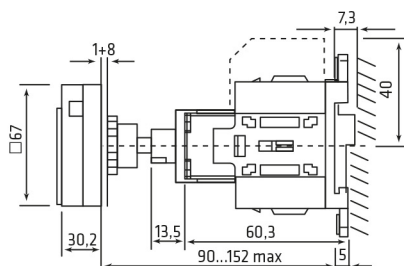
011
012



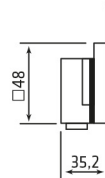
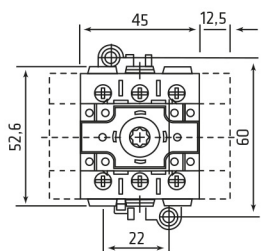
Panel



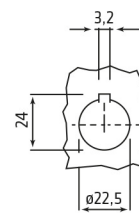
Box



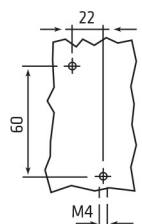
Actuator Type 063
064



069
077



Panel



Box

ADDITIONAL POLES



SERIES	DESCRIPTION	CODE	DIAGRAM
SQ025 SQ032	Additional Pole NO	SQ025AFPB	7 — 8
		SQ032AFPB	
	4 th Pole (early make contact)	SQ025ANIB	N — N
		SQ032ANIB	
	Neutral Terminal	SQ025ANPB	N — N
		SQ032ANPB	
	Ground Terminal	SQ025APEB	PE — PE
		SQ032APEB	

AUXILIARY CONTACTS



SERIES	DESCRIPTION	CODE	DIAGRAM
SQ025 SQ032	AUX 1NC	SQ010AS1B	1 — 2 1NC
	AUX 1NO	SQ010AS2B	3 — 4 1NO

TERMINAL PROTECTION



3 POLES	1 POLE
20900023	20900025



INSTALLATION TOOL



INSTALLATION TOOL FOR FIXING HOLE Ø 22.5 mm
PCF

SHAFT EXTENSIONS



SHAFT EXTENSION □ 5 FOR DOOR INTERLOCK TYPE B	
L 185 mm	20401089
L 300 mm	20401164